

# Anastasia Mosquito Control District

of St. Johns County

[www.amedsjc.org](http://www.amedsjc.org)



District Board Meeting

**October 12, 2023**

Thursday at

**5:00 P.M**



**ANASTASIA MOSQUITO CONTROL DISTRICT  
ST. JOHNS COUNTY**

**PROPOSED AGENDA**

**Thursday, October 12, 2023  
5:00 P.M.**

**Invocation and Pledge:** *Commissioner*

**Consent Items: APPROVAL OF:**

1. Chemical inventory
2. Minutes:
  - A. August 17<sup>th</sup> Board Meeting
  - B. September 14<sup>th</sup> Regular Board Meeting
  - C. September 14<sup>th</sup> First Public Hearing
  - D. September 28<sup>th</sup> Final Public Hearing
3. Annual Physical Inventory Report
4. Mobi Soft Contract Renewal
5. Holiday Work Schedule

**Unfinished Business:**

1. SIT Building Project Update~ Mr. Glenn Harrell, President of the Harrell Construction (10 min)
2. Agreement about Easement for Utilities Proposed by Saint Johns County ~ Mr. Wayne Flowers (15 min)
3. Financial Report and Budget Amendment ~ Mr. Scott Hanna, C.F.O. (10 min)

**New Business:**

1. Discussion and Approval of Christmas Bonus Recommended by Director~ Dr. Rui-De Xue (10 min)
2. Exploring and Challenge of Artificial Intelligence (AI) for Mosquito Control (Ppt) ~ Dr. Rui-De Xue (10 min)
3. Commissioner Becker to Speak on District Community Project with Possible guest ~ Commissioner Becker (10 min)

**Reports**

1. Director
2. Attorney

**Commissioner Comments:**

**Attachments:** FOR INFORMATION PURPOSES ONLY




# Consents

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY**  
**CHEMICAL & FUEL INVENTORY**  
 MONTH OF AUGUST 2023

**DISTRICT TOTALS**

CHEMICAL DESCRIPTION (indicate lbs., gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT
WSP	EA. 18,730.00				18,730.00	4521.00	14,209.00	14,209.00
ID XR	LBS. 1,562.00				1,562.00	195.00	1,367.00	1,367.00
ID XRG	LBS. 22,155.00	8,000.00			30,155.00	6845.00	23,310.00	23,310.00
AC XT	GALS. 27.60				27.60	21.10	6.50	6.50
UER 20-20	GALS. 261.05				261.05	31.04	230.01	228.01
DUNKS (Doughnuts)	EA. 4,646.00				4,646.00	334.00	4,312.00	4,312.00
BEAR	GALS. 121.71				121.71	1.28	120.43	120.43
UTOMIST TWO	GALS. 368.00				368.00	46.00	322.00	323.00
AR DT	GALS. 230.25				230.25	71.26	158.99	159.00
PELLETS	GALS. 1,170.00				1,170.00	195.00	975.00	975.00
IN MBG	LBS. 8,520.00				8,520.00	0.00	8,520.00	8,520.00
AR P	LBS. 0.00				0.00	0.00	0.00	0.00
BAC 12AS	GALS. 109.53				7,050.00	1900.00	5,150.00	5,150.00
BAC G	GALS. 196.63	200.00			109.53	5.33	104.20	104.20
INE	LBS. 4,800.00				396.63	71.68	324.95	324.95
TOTALS	GALS. 3,109.00	1,998.00			4,800.00	0.00	4,800.00	4,800.00
	GALS. 1,807.00				5,107.00	2617.42	2,489.58	2,493.00
					1,807.00	657.43	1,149.57	1,145.00
		10198.00	0.00	0.00	85,061.77	17,512.53	67,549.24	67,548.24


BASE= 67,548.5  
 Total 67,548.5

APPROVED BY:  DATE: 9/12/23  
 APPROVED BY:  DATE: 9/17/23  
 APPROVED BY:  DATE: 9/17/23

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY  
 CHEMICAL & FUEL INVENTORY  
 VALUE  
 MONTH OF AUGUST 2023

CHEMICAL DESCRIPTION (Indicate lbs., gals. or ea.)	PHYSICAL COUNT	ACTUAL COST PER LB/GAL/EA	TOTAL INVENTORY VALUE	INVOICE DATE	PURCHASED FROM
ALTOCID WSP	EA. 14,209.00	\$0.8800	\$12,503.92	12/16/21	VESERIS
ALTOCID WSP	EA. 0.00	\$0.0000	\$0.00		VESERIS
ALTOCID XR	LBS. 487.00	\$3.42	\$1,665.39	10/30/20	VESERIS
ALTOCID XR	LBS. 880.00	\$3.45	\$3,036.00	12/16/21	VESERIS
ALTOCID XRG	LBS. 15,310.00	\$9.7700	\$149,578.70	6/12/23	VESERIS
ALTOCID XRG	LBS. 8,000.00	\$9.7700	\$78,160.00	8/22/23	VESERIS
AQUABAC XT	GALS. 6.50	\$35.0000	\$227.50	1/31/22	VESERIS
AQUABAC XT	GALS. 0.00	\$0.0000	\$0.00		VESERIS
AQUALUER 20-20	GALS. 8.80	\$121.5400	\$1,069.55	5/10/21	ALPRO
AQUALUER 20-20	GALS. 220.00	\$121.5400	\$26,738.80	8/9/22	ALPRO
B. t. I. DUNKS (Doughnuts)	EA. 2,212.00	\$1.0510	\$2,324.81	9/1/22	TARGET
B. t. I. DUNKS (Doughnuts)	EA. 2,100.00	\$1.0100	\$2,121.00	4/6/23	TARGET
COCO BEAR	GALS. 10.43	\$20.4800	\$213.61	7/16/18	CLARKE
COCO BEAR	GALS. 110.00	\$28.4100	\$3,125.10	6/13/22	CLARKE
DUET	GALS. 48.75	\$214.7300	\$10,468.09	8/24/21	CLARKE
DUET	GALS. 165.00	\$223.5300	\$36,882.45	12/6/22	CLARKE
DUET	GALS. 110.00	\$232.7600	\$25,603.60	3/31/2023	CLARKE
MOSQUITOMIST TWO	GALS. 49.00	\$95.7700	\$4,692.73	12/6/22	CLARKE
MOSQUITOMIST TWO	GALS. 110.00	\$95.7700	\$10,534.70	1/4/23	CLARKE
MOSQUITOMIST TWO	GALS. 0.00	\$111.7300	\$0.00	3/31/23	CLARKE
NALED	GALS. 225.00	\$2.0000	\$450.00	10/19/21	Oscoda Co.
NALED	GALS. 750.00	\$264.2900	\$198,217.50	4/7/23	AZELIS
NATLEAR DT	EA. 8,520.00	\$0.4168	\$3,551.14	9/9/16	CLARKE
STRIKE PELLETS	LBS. 0.00	\$184.1500	\$0.00		ADAPCO
SUSTAIN MBG	LBS. 5,150.00	\$7.1000	\$36,565.00	7/12/22	ALPRO
TALSTAR P	GALS. 64.16	\$63.6400	\$4,083.14	9/13/22	VESERIS
TALSTAR P	GALS. 40.00	\$63.0000	\$2,520.00	5/11/23	VESERIS
VECTOBAC 12AS	GALS. 124.95	\$37.5000	\$4,685.63	4/25/23	AZELIS
VECTOBAC 12AS	GALS. 200.00	\$37.6900	\$7,538.00	8/21/23	AZELIS
VECTOBAC G	LBS. 4,800.00	\$1.7500	\$8,400.00	4/25/23	AZELIS
GASOLINE	GALS. 495.00	\$3.2495	\$1,608.50	7/24/23	L. V. HIERS
GASOLINE	GALS. 1,998.00	\$3.3519	\$6,697.10	8/15/23	L. V. HIERS
JET A	GALS. 1,145.00	\$3.9200	\$4,488.40	9/28/22	Avfuel
JET A	GALS. 0.00	\$0.0000	\$0.00		Avfuel
TOTAL	87,548.59	\$2,001.79	\$847,750.35		

Subtract Green first

PREPARED BY:  DATE: 9/7/2023

COST FIGURES REVIEWED BY:  DATE: 9/17/23

REVIEWED BY:  DATE: 9/7/23





Corporate Office  
10800 Pecan Park Blvd., Suite 300  
Austin, TX 78750

REMITTANCE	
ACH/EFT	CHECK
Account Name: ES OPCO USA LLC	ES OPCO USA LLC
Account #: 334037180288	PO Box 7410137
ACH ABA Routing #: 061000052	Chicago, IL 60674-0137



Please send ACH/EFT payment remittances to: [payments@veseris.com](mailto:payments@veseris.com)

CUSTOMER NO. 400947 TERMS NET30  
INVOICE NO. IN-4296208 DUE DATE 09/21/2023  
INVOICE DATE 08/22/23 INVOICE AMOUNT \$78,160.00 (USD)  
SHIP TO TAX EXEMPT NUMBER  
ANASTASIA MOSQUITO DIS  
120 Eoc Dr  
Saint Augustine, FL 32092-0927

RETURN SERVICE REQUESTED

17820000&2 PRESORT PBPS001 <>



ANASTASIA MOSQUITO DIST  
120 EOC DR  
SAINT AUGUSTINE FL 32092-0927

VESERIS  
PO BOX 7410137  
CHICAGO, IL 60674-0137



PLEASE DETACH HERE AND RETURN TOP PORTION WITH YOUR PAYMENT

INVOICE NO. IN-4296208	INVOICE DATE 08/22/23	ORDER NO. SO-100-1066492	CUSTOMER PO 08172023	FREIGHT TERMS PP-SP
SHIP DATE	SALES REP Joseph Manna	ENTERED BY Nicole Hegeman	WAREHOUSE LOC OR-ORLANDO	SHIP METHOD VWR5-VWR5

Buyer agrees that all orders or purchases are subject to Vesperis' Standard Terms and Conditions of Sale as of the date of shipment available at <https://veseris.com/sales-terms/>. All sales and orders are expressly limited to such terms, which may be updated from time to time. No other terms and conditions apply to any sales order unless agreed to in writing by both parties.

Vesperis' Policy Notice is posted on <https://veseris.com/privacy-policy/>  
To access invoice copies, access your account on <https://veseris.osgview.com/>

Enrollment Token: PK7XD8QF  
Billor Code: 100

PRODUCT DESCRIPTION	TAX	QUANTITY ORDERED	QUANTITY SHIPPED/ B.O.	PRICE PER UNIT	EXTENDED AMOUNT
714485 ALTOSID XR-G 40LB BAG WELLMARK MATL AGCY BG NA 2724-451		200.00	200.00 0.00	\$390.80	\$78,160.00

MERCHANDISE TOTAL \$78,160.00

SUBTOTAL \$78,160.00  
OTHER CHARGES \$0.00  
INVOICE TOTAL \$78,160.00

Other Charges may include state mandated mill tax.

Total Due \$78,160.00 (USD)

8000 lbs  
\$ 9.77

# Azelis A&ES

Invoice	135429
Date	8/21/2023
Page:	1

**Remit To:**  
**ADAPCO**  
**PO Box 736662**  
**Dallas, TX 75373-6662**

**Headquarters:**  
 100 Colonial Center Pkwy, Ste 170  
 Lake Mary, FL 32746  
 FEI: 59-2574523

**Orders:**  
 (800) 367-0659  
 www.AzelisAES-US.com

*SalesRep via Phone*

**Bill To:**

**Ship To:**

ANASTASIA MOSQ CTRL DIST ACCOUNTS PAYABLE 120 EOC DR ST AUGUSTINE FL 32092	ANASTASIA MOSQ CTRL DIST 120 EOC DR *** DELIVERY 8:00AM - 2:00P *** ** NO FRIDAY DLEIVERY ** SAINT AUGUSTINE FL 32092
(904) 484-7334 Ext. a/p0      shannaamcd@gmail.com	(904) 471-3107 Ext. 0000      K. GAINES

Cust#	Payment Terms	Purchase Order No.	Shipping Method	Territory	Salesperson
1010	NET 30 DAYS	VERBAL DENA	COM CARRIER	EAST	COP-FL

Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
40.00	40.00	0.00	VEC12AS-5	VECTOBAC 12AS (2X2.5 GL CS) SD	\$187.50	\$7,500.00
				S#/Lot# 346655N930 QTY 16.00		
				S#/Lot# 343663N930 QTY 24.00		
1.00	1.00	0.00	ELS	ENVIRONMENTAL LIABILITY SURCHARGE 0	\$38.00	\$38.00
<p><i>40 x 5 = 200 gal</i></p> <p><b>RECEIVED</b> AUG 31 2023</p> <p>By: _____</p> <p><i>\$37.69 gallon</i></p> <p><i>Thank you!</i></p>						

Subtotal	\$7,538.00
Discount	\$0.00
Shipping	\$0.00
Handling	\$0.00
Tax	\$0.00
Less Payments	\$0.00
<b>Total Due</b>	<b>\$7,538.00</b>

**Contact:** RUI-DE XUE / SCOTT HANNA x201

**Tax Info:**

**License:** PH0457

**Exp Date:** 04/30/2024

**Restricted Product Users:** It is the purchasers responsibility to notify us of License changes/updates.



# Invoice



**LV Hiers Inc Stone Transport Svc LLC**  
**PO Box 1229**  
**Maccleddy, FL 32063**  
**9042592314**

**Invoice Number: 0455252-IN**  
**Invoice Date: 8/15/2023**  
**Due Date: 8/15/2023**  
**Order Number:**  
**Order Date**  
**Salesperson: AS**  
**Customer Number: ANAMOS**

**Sold To:**  
 Anastasia Mosquito Control  
 District of St. John's County  
 120 EOC Drive  
 SAINT AUGUSTINE, FL 32092  
 904.471.3107

**Ship To:**  
 Anastasia Mos. Ctrl - EOC Dr.  
 District of St. John's County  
 120 EOC Drive  
 ST. AUGUSTINE, FL 32080

**Confirm To:**

Customer P.O.	Ship VIA	BOL #	Terms
	TAN		Due Immediately

Item Number	Unit	Ordered	Shipped	Back Ordered	Price	Amount
E10UNL	GAL	1,998.00	1,998.00	0.00	2.9726	5,939.25
E10 Regular Unl. Gas 87 Octane		<b>Whse: 000</b>				
FL STATE EXCISE TAX						403.60
FL POLLUTION TAX						41.36
FET - L.U.S.T. Fee						2.00
FL INSP FEE						2.40
Federal Oil Spill Tax						3.80
Federal Superfund Fee						6.99
ST JOHNS LOCAL OPT TAX						297.70
						<b>3,351.90</b>
						<b>6,697.10</b>

3,351.901901

**\* A CONVENIENCE FEE OF 3% MAY BE ADDED TO CREDIT CARD PAYMENTS.**  
**\* A LATE FEE OF 1% OR \$30.00, THE GREATER OF WHICH, WILL BE CHARGED ON ALL PAST DUE INVOICES.**  
 The undersigned Buyer grants to the Seller, L. V. Hiers, Inc. a Security Interest under the Uniform Commercial Code for the goods sold under this Invoice. If payment is not made as agreed then the Seller may peacefully repossess same and/or take legal action to recover such goods as well as to collect the amount due under this invoice together with reasonable attorney's fees, costs and out-of-pocket expenses.

Net Invoice: 6,697.10  
 Less Discount: 0.00  
 Freight: 0.00  
 Sales Tax: 0.00  
**Invoice Total: 6,697.10**

**Signature: \_\_\_\_\_ Print Name: \_\_\_\_\_**



P.O. Box 1229  
 Macclenny, FL 32063-1229  
 904-259-2314  
 orders@lvhiers.com

455252

SOLD TO: Anastasia  
mosquito  
control

SHIP TO: Ag Center Dr  
St Johns

DATE 2/15/23

CASH   
 CREDIT

DEP Facility # \_\_\_\_\_

Bill of Lading # <u>607732</u>	Cust. Order No.
-----------------------------------	-----------------

Please identify your payment of this invoice by Number and Date and send to address shown above. Make check payable to: L.V. Hiers, Inc.

Multiple Tanks at Site     Temporary Construction Tank     Mobile Tank     Agricultural Use

PACKAGES No. Style	PRODUCT DELIVERED	QTY	Tax Included in Price			Posted Price	Net Price	TOTAL AMOUNT
			Fed.	State	Local			
	87 Octane Regular Unleaded Gasoline, 10% Ethanol	<u>1948</u>						
	93 Octane Premium Unleaded Gasoline, 10% Ethanol							
	89 Octane Marine Gasoline, Non-Ethanol							
	Ultra Low Sulfur Diesel #2 - "UNDYED DIESEL FUEL. DOES NOT CONTAIN VISIBLE EVIDENCE OF DYE."							
	Dyed Ultra Low Sulfur Diesel #2 - "DYED DIESEL FUEL. NONTAXABLE USE ONLY. PENALTY FOR TAXABLE USE. DOES NOT MEET FEDERAL REQUIREMENTS FOR USE AS ON HIGHWAY DIESEL FUEL."							

Flammable Liquid UN1203 Gasoline \_\_\_\_\_  
 Combustible Liquid UN1993 \_\_\_\_\_  
 In Case of Leak, Fire or Spill Call 904-259-2314 904-237-0062  
 D.O.T. Emergency Response Guide Handbook

The undersigned Buyer grants to the Seller, L.V. Hiers, Inc. a Security Interest under the Uniform Commercial Code for the goods sold under this invoice. If payment is not made as agreed then the Seller may peacefully repossess same and/or take legal action to recover such goods as well as to collect the amount due under this invoice together with reasonable attorney's fees, costs and out-of-pocket expenses.

DELIVERED BY: <u>JH</u>	RECEIVED BY: <u>[Signature]</u>
-------------------------	---------------------------------

Unless otherwise noted a 1% fee will be charged on all past due invoices.  
 A 3% fee will be added to all credit card payments  
 ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION

SUB TOTAL \_\_\_\_\_  
 Sales Tax \_\_\_\_\_  
 TOTAL \_\_\_\_\_

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY  
CHEMICAL & FUEL INVENTORY  
August 2023**

Dena Oliva

DESCRIPTION (lbs., gals. or ea.)	BEGINNING PHYSICAL COUNT	AMOUNT PURCHASED	TRANSFER IN	TRANSFER OUT	AMOUNT AVAILABLE	AMOUNT USED	ENDING "BOOK" BALANCE	PHYSICAL COUNT
EA.	18,730.00				18,730.00	4,521.00	14,209.00	14,209.00
EA.	1,562.00				1,562.00	195.00	1,367.00	1,367.00
LBS.	22,155.00	8,000.00			30,155.00	6,845.00	23,310.00	23,310.00
GALS.	27.60				27.60	21.10	6.50	6.50
20	GALS.							
EA.	261.05				261.05	31.04	230.01	228.80
EA.	4,646.00				4,646.00	334.00	4,312.00	4,312.00
GALS.	121.71				121.71	1.28	120.43	120.43
GALS.	368.00				368.00	46.00	322.00	323.75
T TWO	GALS.							
GALS.	230.25				230.25	71.26	158.99	159.00
GALS.	1,170.00				1,170.00	195.00	975.00	975.00
EA.	8,520.00				8,520.00	0.00	8,520.00	8,520.00
LBS.						0.00	0.00	
LBS.	7,050.00				7,050.00	1,900.00	5,150.00	5,150.00
GALS.	109.53				109.53	5.33	104.20	104.16
GALS.	196.63	200.00			396.63	71.68	324.95	324.95
LBS.	4,800.00				4,800.00	0.00	4,800.00	4,800.00
GALS.	3,109.00	1,998.00			5,107.00	2,617.42	2,489.58	2,493.00
GALS.	1,807.00				1,807.00	657.43	1,149.57	1,145.00
TOTALS	74,863.77	10,198.00	0.00	0.00	85,061.77	17,512.53	67,549.24	67,548.59

# Treatment Summary

From Date : 08-01-2023

To Date : 08-31-2023

Zone : All

Material : All

Task : All

Printed on 2023-09-05 07:35:49 EST

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	4521 ea	14.01 acre	322.68 ea / acre	31 times
Altosid XR	195 ea	0.45 acre	435.54 ea / acre	2 times
Altosid XRG	1005 lb	167.5 acre	6 lb / acre	11 times
Altosid XRG Air	5840 lb	584 acre	10 lb / acre	7 times
Aquabac XT	2701 fl oz	168.81 acre	16 fl oz / acre	27 times
Aquature 20-20 1:5	3972.67 fl oz	15378.06 acre	0.26 fl oz / acre	26 times
B.l.i. Briquets	334 ea	0.77 acre	435.54 ea / acre	10 times
Cocobear	164 fl oz	0.43 acre	384.02 fl oz / acre	7 times
Dibrom Concentrate	24960 fl oz	41608.32 acre	0.6 fl oz / acre	7 times
Duet 50%	5888 fl oz	3750.31 acre	1.57 fl oz / acre	19 times
Mosquitomist Two	9121 fl oz	13819.6 acre	0.66 fl oz / acre	17 times
Sustain MBG	700 lb	93.33 acre	7.5 lb / acre	18 times
Sustain MBG Air	1200 lb	120 acre	10 lb / acre	1 times
Talstar P	5.33 gal	15.82 acre	0.34 gal / acre	21 times
VectoBac 12AS	9175 fl oz	573.44 acre	16 fl oz / acre	63 times

# AMCD

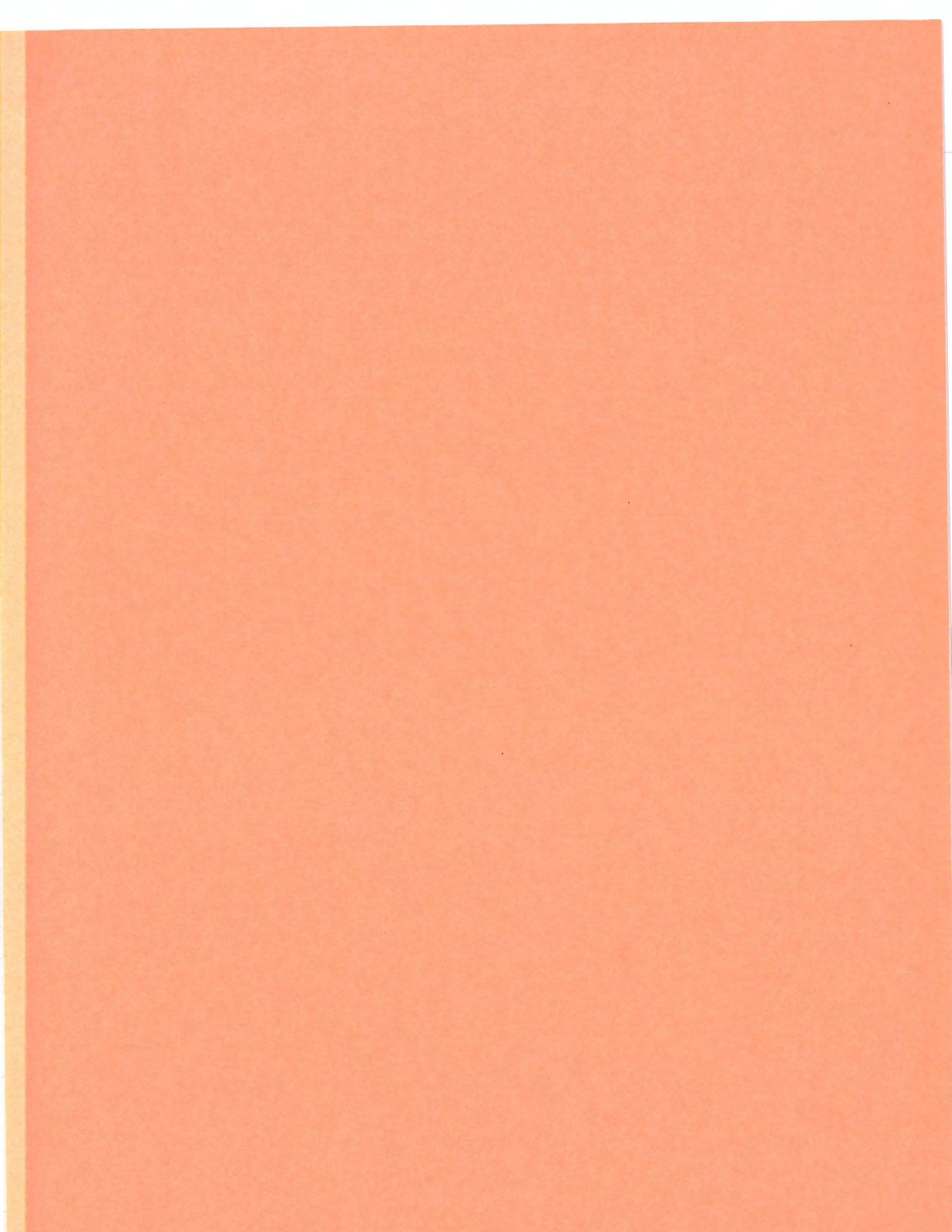
## Product Totals For Sites

Date Range From : 08/01/2023 12:00:00AM To : 08/31/2023 11:59:00PM

Pump - Hose	Product :	Site Id :	Transactions	Total Quantity
01-1	01 Unleaded	003 Anasatisia Mquito Control	233	2617.418
Totals For Site :			<u>233</u>	<u>2617.418</u>
Totals For Product :			<u>233</u>	<u>2617.418</u>
02-1	02 Jet-A	003 Anasatisia Mquito Control	39	657.430
Totals For Site :			<u>39</u>	<u>657.430</u>
Totals For Product :			<u>39</u>	<u>657.430</u>

August 2023 Mileage (2)

NAME	VEHICLE	MILEAGE
Ford Tractor	686	1,424
ATV Surplus 22/23	934	898
Backhoe	1018	873
ATV	1109	590
TF Truck	1132	80,024
Fog MM2	1133	90,972
TF Truck	1173	96,433
Fog MM2	1195	96,188
Service Surplus 22/23	1196	0
Surveillance	1197	81,500
Service	1198	81,487
Fog MM2	1199	61,553
Fog MM2	1200	83,074
Service	1201	78,487
Service	1202	47,501
Service	1203	78,613
Gator	1223	759
ATV Surplus 22/23	1273	0
TF Truck	1342	110,928
Buffalo T	1343	88,710
Polaris 4 Wheeler	1366	4
ATV	1367	1,593
Surveillance (Air Boat)	1410	124,000
Air Boat	1422	193
Blackwelder	1425	78,384
Service	1426	103,407
James Stokley	1462	70,912
S Dual Duty	1463	82,446
Ford Explorer	1479	69,499
Ken Daniel	1484	71,059
S Dual Duty	1485	69,202
Willis Owings	1493	63,812
Dazmond Hackney	1494	68,273
Fork Lift	1536	257
Holly Usina	1544	76,181
Phil Vaughn	1546	64,479
Kyle Arber	1548	52,395
Cathy Hendricks	1550	74,890
Kyle Graham	1611	22,030
Jeremy Wohlforth	1613	31,876
Ruide Xue	1615	24,100
Service Expedition	1630	13,092
Jerry Iser	1633	18,540
Gator	1666	245
Pending Dual Duty	1692	6,578
Maverick	1708	17,046
ATV	1718	13
ATV	1719	57
ATV	1734	14
ATV	1735	4



# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, FL 32092  
Telephone: (904)-471-3107 \* Fax (904) 471-3189 \* Web: [www.amcdsjc.org](http://www.amcdsjc.org)

## BOARD OF COMMISSIONERS

Gayle Gardner, Chairperson  
Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner



## DISTRICT DIRECTOR

Dr. Rui-de Xue



Thursday, August 17, 2023

Next Meeting(s): Regular Meeting Thursday, September 14, 2023 – 5:00 PM  
First Public Hearing Thursday, September 14, 2023 – 5:30 PM  
Final Public Hearing Thursday, September 28, 2023 – 5:30 PM

## MINUTES

The regular Board meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, August 17, 2023, at 5:00 P.M.

### Board members in attendance:

Mrs. Gayle Gardner, Chairperson  
Mrs. Trish Becker, Vice-Chairperson  
Mrs. Gina LeBlanc, Commissioner  
Mrs. Catherine Brandhorst, Commissioner  
Mrs. Martha Gleason, Commissioner

### Also in attendance:

Dr. Rui-De Xue, Director  
Mr. Wayne Flowers, Attorney

Chairperson Gardner called the meeting to order.  
Commissioner Gardner led the Pledge of Allegiance to the flag.

**ROLL CALL:** Chairperson Gardner noted ~ All were present,

**CITIZEN PARTICIPATION:** For Items not on the Agenda ~ NONE

**APPROVAL OF AGENDA:** Chairperson Gardner called for approval of the Agenda.

A. A motion was made to approve the Agenda as presented.

- Motioned by: Commissioner Brandhorst
- Seconded by: Commissioner Gleason
- VOTE accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**APPROVAL OF CONSENT AGENDA:** Chairperson Gardner called for approval of the Consent Agenda as presented.

A. A motion was made to approve the Consent Agenda as presented.

- Motioned by: Commissioner Brandhorst



- Seconded by: Commissioner Gleason
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**Consent Items ~ APPROVAL OF:**

1. Chemical Inventory
2. Minutes: Regular Board Meeting, July 13, 2023 at 5:00 P.M.
3. Auditor Selection Results and Contract
4. Physical Inventory/Surplus
5. Report about Approved Three Symposia from AMCD Staff for AMCA Annual Meeting
6. Approval of Vehicle Purchase Bid

**UNFINISHED BUSINESS:**

**1. Item 1: Florida PRIME Investment ~ Mr. Luke Raffa, CFA, Vice President, Institutional Bus Develop, Federated Hermes**

- Mr. Luke Raffa began by thanking the Board and introducing himself. He continued explaining he works for federated Hermes which is the investment manager for Florida Primes local government investment pool. Mr. Raffa continued explaining Florida Prime has been around since 1977, it was introduced by a piece of legislation, so it's actually state law that it's a permissible investment vehicle for all public entities across Florida. He continued explaining an investment vehicle meaning that all of the local government entities through the state of Florida have the ability to contribute money towards the pool, there are several benefits to doing so, all tied into economies of scale, so it allows for professional management of the pool, it allows for lower cost, it allows each participant (no matter the size of the investment) they all get the same benefit and they all get the same rate of return for their entity. So, currently the rate of return is 5.66% and over 750 participants inside of the pool. The State Board of Administration (SBA) is the one that oversees everything, including the investment policy and the operational components of Florida Prime. Federated's role is the investment manager, they do all the analysis of the securities, purchase of the pool, portfolio constructions, deciding what makes it in and what does not, and Federated reports to the state daily. Mr. Raffa explained they have had a contract with the state since 2008.
- Mrs. Gleason asked if Federated had a contract with the state due to the incident in 2007?
- Mr. Raffa explained in 2007 there were bad securities in the pool, Federated helped the state sort out the situation and isolate the bad securities, in the wake of the whole situation the state was very satisfied with the job and decided to hire them for a long term contract.
- Mrs. Gleason asked if there are any mortgage back securities on the portfolio?
- Mr. Raffa answered, **there are not mortgage-backed securities, there's only money market securities in the pool. So, money market securities have to have a term of one year or less and there's not traditional mortgage-backed securities.**
- Mrs. Gleason asked if there have been more deposits than withdrawals right now?
- Mr. Raffa explained the fund is about three billion dollars higher than it was this time last year.
- Mrs. Gleason asked on average, of the 750 participants in the pool, what would you say the average percent of their investment in put into the pool?
- Mr. Raffa asked if he could do some research and answer that question later.
- Dr. Xue asked what is the relationship between the government and legislation, why can the Government freeze funds?

- Mr. Raffa explained the Chief Investment Officer for the Florida SBA, Mark Taylor, has the ultimate authority.
- Mrs. Becker asked if Florida Prime was its own thing before Federated took over?
- Mr. Raffa explained we took it over in 2008 and before that it was referred to as SBA.
- Mrs. Becker asked what does Federated do?
- Mr. Raffa explained Federated manages about 700 billion dollars in total assets, 600 billion dollars of that is in liquidity or fixed income products, so, similar to what we have here, we manage the state pools in five or six different states.
- Mrs. Becker asked if it was all public agencies in the SBA or could she personally invest?
- Mr. Raffa answered no, it is all public agencies.
- Mrs. Becker asked what investments are made with the SBA money?
- Mr. Raffa explained it is a range of money market securities.

○ **THERE WAS NO MOTION ON THIS ITEM**

2. **Item 2: Update about Balmoral Group’s Report ~ Dr. Rui-De Xue**

- Dr. Xue began by explaining the report looked very good, AMCD made some corrections. He continued explaining during the process AMCD had sent many documents and information for the report. Dr. Xue also mentioned Balmoral Group visited AMCD, met with staff and visited the hangar. He mentioned the final report will be available in September. Dr. Xue explained they gave AMCD three recommendations and next year AMCD will perform a program review, after the Education Center is finished and running.
- Commissioner Becker and Gleason congratulated staff on an excellent report and thanked them for all their hard work.

○ **THERE WAS NO MOTION ON THIS ITEM**

3. **Item 3: Monthly Treasurer’s Report/Vouchers (Cancelled Checks) and Budget Amendment ~ Mr. Hanna**

- Mr. Hanna reviewed the treasurer’s report/vouchers with the Board of Commissioners. Mr. Hanna also explained usually budget amendments are to amend over spending, however, the District earned more revenue than the budget originally anticipated.

**A. A motion was made to approve the budget amendment as presented.**

- Motioned by: Commissioner Becker
- Seconded by: Commissioner Gleason
- VOTE accepted by: ALL Commissioners
- **MOTION PASSED UNANIMOUSLY**

**NEW BUSINESS**

1. **Item 1: Update about the RFP’s for Agent of Record for Health, Life and Dental Insurance ~ Mr. Richard Weaver**

- Mr. Weaver explained the Request for Proposal (RFP) will be come back to the Board of Commissioners in September with staff recommendations.

○ **THERE WAS NO MOTION ON THIS ITEM**

2. **Item 2: Update about the RFP for District Attorney ~ Mr. Richard Weaver**

➤ Mr. Weaver explained the board will be responsible for scoring, ranking and interviewing a qualified attorney. He continued explaining the RFP packages are going to be opened on the 28<sup>th</sup>, they'll close on the 25<sup>th</sup>, the same as the insurance. Mr. Weaver continued explaining that staff will open them to make sure that they're qualified and then they will send them to the board. He continued explaining staff will need the ranking forms by Thursday, September 7<sup>th</sup> at 4:00 pm and then staff will transfer the ranking forms to a score sheet. Mr. Weaver mentioned the memo sets some rules and the Board can either agree to these rules or change them.

**A. A motion was made to have the Board presented with the RFP on August 28<sup>th</sup>, send score sheets in by September 7<sup>th</sup> and have the top three candidates return to the September board meeting to present.**

- Motion by: Commissioner Becker
- Seconded by: Commissioner Gleason
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

3. **Item 3: Board Members Attendance to the FMCA Annual Meeting, Port Charlette, November 13<sup>th</sup>- 16<sup>th</sup>, 2023 and AMCA meeting, Dallas, March 4<sup>th</sup>-8<sup>th</sup>, 2024 ~ Dr. Rui-De Xue**

➤ Dr. Xue mentioned the Florida Mosquito Control Association's annual meeting will be held at Port Charolette, FL, November 13-16. The District will pay for the registration (\$390/person), 3 day hotel rooms (\$600/person), around mileage rates (\$360), and three day per diem (\$195/person). He continued explaining a total cost for one person is about \$1,600 and the American Mosquito Control Association's annual meeting will be held in Dallas, March 4-8, 2024. Registration is \$570/person, Hotel room is about \$900, Airline tickets is about \$400, per diem is about \$270. A total of cost per person is about \$2,200. Dr. asked the Board of Commissioners to let him know if they plan to join one or two meetings by 6 September, 2023.

**REPORTS:**

1. **Director** ~ Dr. Xue reported so far this year, two EEE horse and one human case. He mentioned last week, AMCD had one travel related to dengue fever and last week St. Johns County had a big mosquito outbreak, especially the saltmarsh mosquito. Dr. Xue continued explaining last week AMCD received 500 service requests within a few days but since AMCD has ground and aerial sprayed that number has reduced significantly. He mentioned recently interviews for the Assistant Director position were held, nine applications were received and the top three were interviewed. Dr. Xue also mentioned interviews were held for the Education Specialist position the top ranked person turned the position down and the second ranked person (former intern Tomomi Hirokawa) was offered the position starting October 9<sup>th</sup>, 2023.

2. **Attorney** ~ Mr. Flowers had nothing to report

**COMMISSIONER COMMENTS:**

**Commissioner LeBlanc** ~ Thanked the staff for all their hard work.

**Commissioner Brandhorst** ~ Thanked the staff for all their hard work.

**Commissioner Gardner** ~ Thanked the staff for all their hard work.

**Commissioner Gleason** ~ Thanks to staff again, great job on the Balmoral report. Political season is once again upon us and I was contacted by Kim Kendall, who's running for Cindy Stevenson seat. Cindy Stevenson is term limited, so Kim is running. She would like to come to our next board meeting, so, what I was thinking is maybe giving them a tour of the education center and sit building before the board meeting so that they can understand what we actually do before they leave here. If the Board is okay with it, I'll just reach out to her and invite her to come in maybe at 3:00 P.M.

**Commissioner Becker** ~ Next week we'll be having the congressman Rutherford come and that's on August 24<sup>th</sup> at 1:30 P.M. If any of the other Commissioners would like to come visit, we should make an announcement on the website. Recently we had the American League of University Women take a tour and they had a great time. They have a women and girls in Stem academy and it's like this event to try to get more girls into Stem related fields and they would like to see if it's possible to host it here at AMCD.

**ATTACHMENTS:** ~

1. None

**ADJOURNMENT:**

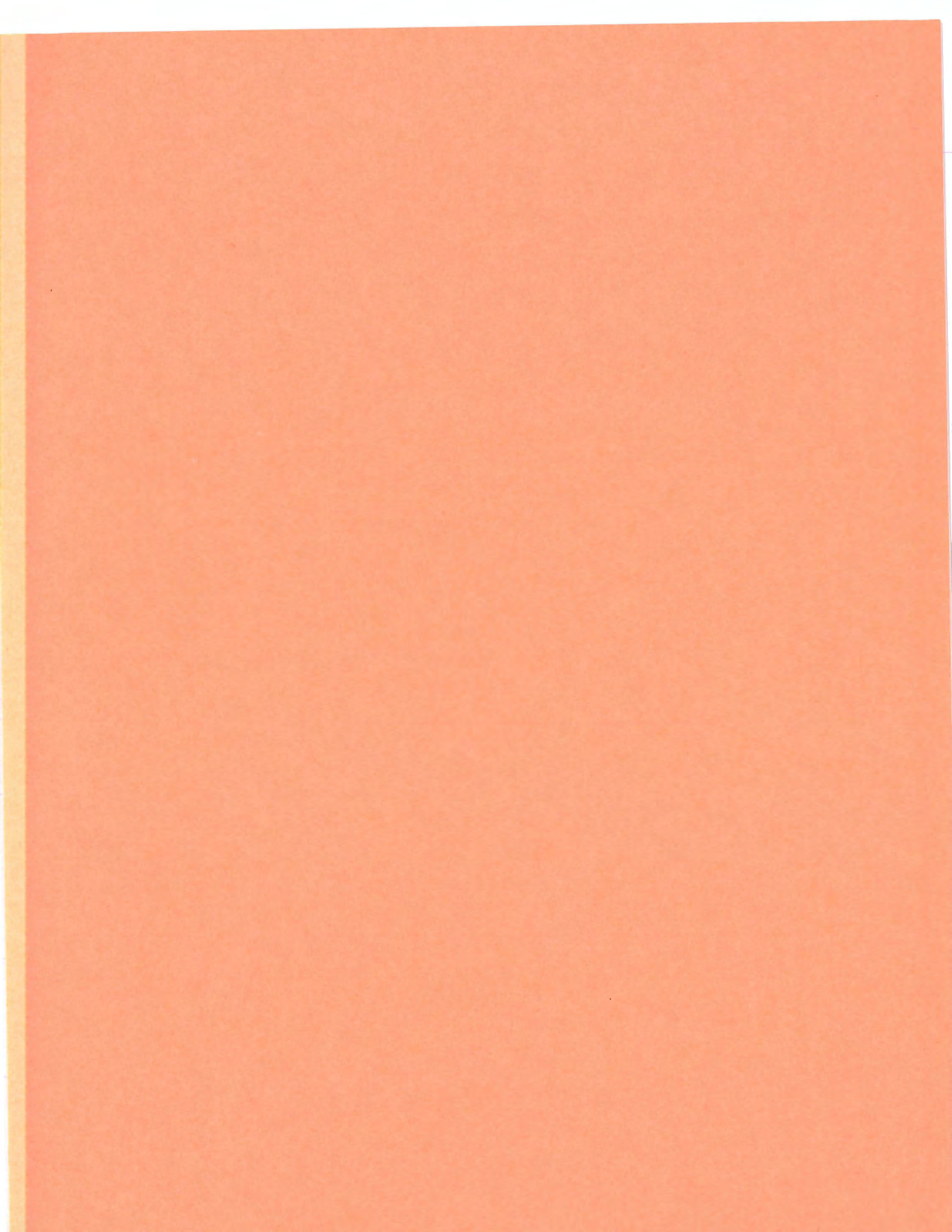
Chairperson Gardner adjourned the meeting at 6:20 P.M.

**ATTEST**

\_\_\_\_\_  
**Chairperson, Commissioner Gayle Gardner**

\_\_\_\_\_  
**Secretary/Treasurer, Commissioner Gina LeBlanc**

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# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, FL 32092  
Telephone: (904)-471-3107 \* Fax (904) 471-3189 \* Web: [www.amcdsjc.org](http://www.amcdsjc.org)

## BOARD OF COMMISSIONERS

Gayle Gardner, Chairperson  
Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner



## DISTRICT DIRECTOR

Dr. Rui-de Xue



Thursday, September 14, 2023

Thursday, October 12, 2023 – 5:00 PM~ Regular Meeting

## MINUTES

The regular Board meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, September 14, 2023, at 5:00 P.M.

Board members in attendance:

Mrs. Gayle Gardner, Chairperson  
Mrs. Trish Becker, Vice-Chairperson  
Mrs. Gina LeBlanc, Secretary/Treasurer  
Mrs. Catherine Brandhorst, Commissioner  
Mrs. Martha Gleason, Commissioner

Also in attendance:

Dr. Rui-De Xue, Director  
Mr. Wayne Flowers, Attorney (arrived late via phone at 5:55 P.M.)  
Mr. Matthew Baker, President of Baker Thomas Insurance  
Mr. Donald Lohr  
Douglas Law Firm  
St. Augustine Law Group

*Chairperson Gardner called the meeting to order.*

*Commissioner Brandhorst led the Invocation and the Pledge of Allegiance to the flag*

**ROLL CALL:** Chairperson Gardner noted ~ all were present.

**CITIZEN PARTICIPATION:** For Items not on the Agenda

**APPROVAL OF AGENDA:** Chairperson Gardner called for approval of the Agenda.

**A. A motion was made to approve the Agenda as presented.**

- Motioned by: Commissioner Gleason
- Seconded by: Commissioner Becker
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**APPROVAL OF CONSENT AGENDA: Chairperson Gardner called for approval of the Consent Agenda.**

**A. A motion was made to approve the Consent Agenda with removing consent item #2 and tabling the item until the October 12, 2023 Board meeting.**

- Motioned by: Commissioner Gleason
- Seconded by: Commissioner Becker
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**Consent Items ~ APPROVAL OF:**

1. Chemical inventory
2. Minutes of August 17<sup>th</sup> Board meeting
3. No November 9<sup>th</sup> Board Meeting Due to the FMCA Meeting
4. Mr. Weaver gives a presentation about AMCD Disease Vector Education Center at Georgia Mosquito Control Association, October 18<sup>th</sup>-20<sup>th</sup>, 2023
5. Count Dr. Xue working hours to give presentations about ATSB at 8th IFSCMVD, Beijing, October 23<sup>rd</sup>-27<sup>th</sup>, 2023 and Asian-Pacific Mosquitoes and Vector Control, Thailand, November 27<sup>th</sup>-30<sup>th</sup>, 2023.
6. Cintas Uniform Contract Renewal

**UNFINISHED BUSINESS:**

**Item 1: Discussion and Approval of Fleet/Liability and Workers Compensation Insurance ~ Mr. Matt Baker**

- Mr. Baker thanked the Board for their time and for choosing Thompson Baker for Fleet/Liability and Workers Compensation Insurance. He began with a brief overview of the insurance renewal, beginning October 1st. Mr. Baker explained the first page of the insurance proposal is a summary document, to compare premiums year by year. Mr. Baker pointed out the prices have increased due to district expansion, additional inland marine coverage and an increase in payroll. Mr. Baker noted the Florida property market is in a difficult state due to factors that have been in place for a couple of years, such as storm activity, but they're hopeful with recent legislative fixes geared towards the property market will start to alleviate these pressures. Mr. Baker also mentioned when looking at the workers compensation premium it has decreased by a significant percentage because of reduction in the experience modification factor, which is a three-year rolling history of the District's workers compensation loss.

**A. A motion was made to approve the Fleet/Liability and Workers Compensation Insurance Renewal as presented.**

- Motioned by: Commissioner Becker
- Seconded by: Commissioner Gleason
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**Item 2: Discussion and Approval of Staff Recommendation's Agent of Record for Health, Life, and Dental Insurance ~ Dr. Rui-De Xue**

- Dr. Xue gave an overview of the RFP, a request for proposal was released by AMCD for an Agent of Record for Health, Life, Dental & Vision Insurance August 1, 2023 and was open for four weeks. Copies of the RFP were sent to all AMCD insurance representatives,

advertised in the legal section of the St. Augustine Record, placed on the Demandstar government bid site and placed on the AMCD web site. Two proposals were returned to AMCD from Herbie Wiles and Brown & Brown. The RFP packages were opened August 28, 2023 at 8:00 AM by the review committee, Richard Weaver, Dr. Whitney Qualls, Scott Hanna, Aye McKinney and Rick Stockley. The ranking was as followed: 1. Herbie Wiles 99.2 2. Brown & Brown 84.0 The Committee recommends that the AMCD Board of Commissioners retain Herbie Wiles as the districts Agent of Record for Health, Life Dental and Vision.

**A. A motion was made to approve the renewal of Herbie Wiles as AMCD Agent of record for Health, Dental and Life Insurance.**

- Motioned by: Commissioner Becker
- Seconded by: Commissioner LeBlanc
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**Item 3: Financial Report and Budget Amendment ~ Mr. Scott Hanna, C.F.O.**

- Mr. Hanna reviewed the treasurer's report/vouchers with the Board of Commissioners. Mr. Hanna also explained usually budget amendments are to amend over spending, however, the District earned more revenue than the budget originally anticipated.

➤

***This meeting was stopped at this time, at 5:30 P.M., to hold the First Public Hearing which was advertised for 5:30 P.M.***

***At 5:45 P.M. this meeting was brought back to order to resume.***

**A. A motion was made to approve the budget amendment as presented.**

- Motioned by: Commissioner Becker
- Seconded by: Commissioner Gleason
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**NEW BUSINESS:**

**1. Item 1: Report about the District Attorney Applicator's Rank by Board Members and Call the Top Three to be Interviewed by the Board (if not done on September 14<sup>th</sup>, 2023, it will be a Special Meeting after the Final Public Hearing on September 28<sup>th</sup>, 2023 at 5:30pm)**

*Mr. Richard Weaver & Mr. Wayne Flowers*

- Mr. Weaver gave an overview of the RFP for a new District Attorney, a request for proposal (RFP) was released by AMCD to hire a qualified attorney/firm to represent AMCD on August 1, 2023 and was opened on August 28, 2023, by staff and distributed to the Board of Commissioners for ranking on August 28<sup>th</sup>, 2023. The Board of Commissioners were responsible for scoring/ranking, interviewing and choosing a qualified attorney/firm. Two firms, St. Augustine Law Group and Douglas Law Firm, gave overviews of their firms and interviewed with the Board of Commissioners. After interviews were conducted the Board spoke among themselves and majority ultimately decided it would be in the District's best interest if the RFP for District Attorney was re-submitted to give more firms a little more time to submit and it would give the district a chance to have more candidates to choose from. The Board made a motion to submit a new RFP for District Attorney on September 28<sup>th</sup>, 2023, the RFP will close on December 1<sup>st</sup>, it will be opened by staff December 1<sup>st</sup> and



distributed to Commissioners and brought back for a vote on December 14<sup>th</sup>. Both firms present agreed to re-submit a proposal when the new RFP was released.

- A. **A motion was made to submit a new RFP for District Attorney September 28<sup>th</sup>, 2023 and close the RFP on December 1<sup>st</sup>, staff will open the RFP and distribute to the board on December 4<sup>th</sup> and bring it back to the Board December 14<sup>th</sup>, 2023 for a vote.**
- Motioned by: Commissioner LeBlanc
  - Seconded by: Commissioner Gardner
  - VOTE: Accepted by Commissioner, LeBlanc, Gardner, Brandhorst, Gleason
  - VOTE: Rejected by Commissioner Becker
  - **Motion Passed 4:1**

### **REPORTS:**

**Director** ~ Dr. Xue reported Saint Johns County (SJC) is still under mosquito borne-illness advisory. He also explained that SJC has had one human EEE case, two horse EEE cases, one travel related dengue fever case, five sentinel chicken EEE cases and 21 sentinel chickens WNV, however the mosquito population has been low the past two weeks. Dr. Xue mentioned Mr. Hanna and himself had a meeting with Wells Fargo and hopefully they will come in December or January to give the Board a presentation and the Board can make a decision regarding the investment policy. He also mentioned the applied research program is doing really well, over the last two months AMCD has received eighty thousand dollars. Dr. Xue explained one intern from UNF started this month, currently AMCD has two intern students from University of North Florida (UNF) working at AMCD for four to five months and are paid by UNF. He mentioned the Centers for Disease Control and Prevention (CDC) Southeastern Excellence Center has an opportunity for AMCD to train two interns for six months. Dr. Xue also congratulated Dr. Whitney Qualls for receiving the promotion as Assistant Director of AMCD, effective October 1<sup>st</sup>.

**Attorney** ~ Mr. Flowers reported Dr. Xue, Mr. Weaver and himself met with representatives from St. Johns County (SJC) Utilities department earlier this month. He continued to explain SJC utilities department is requesting AMCD consider granting them an easement for a reclaimed water pipeline, that they're constructing to run from north to south of AMCD property. Mr. Flowers mentioned this will probably come back to the Board of Commissioners for discussion at the October 12<sup>th</sup> Board meeting.

### **COMMISSIONER COMMENTS:**

**Commissioner Gardner** ~ No comment.

**Commissioner Brandhorst** ~ Thanked the staff for their hard work and the two attorney firms for their interviews.

**Commissioner LeBlanc** ~ Thanked the staff for all their hard work.

**Commissioner Becker** ~ Last month myself and some AMCD staff gave congressman Rutherford a tour of the Education Center and the Sterile Insect Technique (SIT) building, he loved it so much he did not want to leave. He also would like AMCD staff to provide him with a paper so he can ask the CDC to fund our grant. I gave a big presentation at the fuller wood association recently and I was disappointed when over 50 people came to tell me they have submitted service request and technicians have been responding by suggesting they go to the store and buy their own supplies to treat for mosquitoes, Dr. Xue and myself have spoken about the issue and it has been resolved. On Saturday I'll

be speaking at the Master Gardener Club. I would like to give a tour of the Education Center to John Delaney, president of Flagler College, and any other professor that would like to join and I need the Boards permission to do so. The Board came to a consensus to allow Commissioner Becker to give a tour of the Education Center to John Delaney and other professor from Flagler College. Congratulations to Dr. Whitney Qualls on becoming AMCD's new Assistant Director, I was really confident in her reputation and knowledge that she has, I believe it will bring the district to a new level and show everyone women can be in science. Last meeting Commissioner Gleason mentioned possibly giving AMCD staff a bonus for recent inflation, where did we land with that?

- Mr. Hanna mentioned he and Dr. Xue discussed the matter and it was decided the bonus would be added to this year's Christmas bonus, whether staff gets it now or later is something the Board and the Director will need to come to a consensus on.
- Dr. Xue mentioned it will be in the October 12<sup>th</sup> agenda
- Commissioner Becker asked if it would come out of the new budget?
- Dr. Xue confirmed it would come from the 2023/2024 budget
- Commissioner Becker asked if more money would need to be added to accommodate the Christmas bonus
- Dr. Xue reassured her the budget has already been adjusted for the Christmas bonus, he planned to look at what other Districts were doing and then they would come up with a final number.
- Commissioner Becker thanked Dr. Xue for explaining

**Commissioner Gleason** ~ Thanked the staff for all their hard work, thanked everyone that attended the meeting and thanked the two firms for their interviews. Friendly reminder to Mr. Hanna to provide me with those numbers from the SBA, via email.

**ATTACHMENTS:** ~

*1. None*

**ADJOURNMENT:**

Chairperson Gardner adjourned the meeting at **7:21 P.M.**

**ATTEST**

\_\_\_\_\_  
**Chairperson, Commissioner Gayle Gardner**

\_\_\_\_\_  
**Secretary/Treasurer, Commissioner Gina LeBlanc**

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## BOARD OF COMMISSIONERS

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Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner



## DISTRICT DIRECTOR

Dr. Rui-de Xue



Thursday, September 14, 2023

Next Meeting(s):

Final Public Hearing, Thursday, September 28, 2023 – 5:30 PM

Regular Meeting, Thursday, October 12, 2023– 5:00 PM

## MINUTES

The **First Public Hearing** Board meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, September 14, 2023, at 5:30 PM.

Board members in attendance:

Mrs. Gayle Gardner, Chairperson  
Mrs. Trish Becker, Vice-Chairperson  
Mrs. Gina LeBlanc, Secretary/Treasurer  
Mrs. Catherine Brandhorst, Commissioner  
Mrs. Martha Gleason, Commissioner

Also in attendance:

Dr. Rui-De Xue, Director  
Mr. Wayne Flowers, Attorney

Chairperson Gardner called the meeting to order.

Roll Call: Roll Call was done at the beginning of the Regular meeting which began at 5:00 PM and will resume after this First Public Hearing meeting.

## BUSINESS:

### **Item 1: PUBLIC COMMENT ON TENTATIVE MILLAGE RATE and BUDGET FY23/24**

#### **PUBLIC COMMENT:**

- Mrs. Diane Cooper wanted to express her concern of the St. Johns County millage rate and how the increase is not manageable for people on a fixed income. The Board of Commissioners kindly let her know her concerns need to be expressed at the St. Johns County Board of Commissioners meeting on September 19, 2023.

- Mr. Cliff Martinez let the Board of Commissioners know that AMCD is doing a great job minimizing expenses and still providing exceptional service to the citizens of Saint Johns County and thanked the Board for their time.

- **THERE WAS NO MOTION ON THIS ITEM**

**Item 2: BOARD DISCUSSION ON TENTATIVE MILLAGE and BUDGET FY23/24**

- The public had no more comments regarding the budget; therefore, Commissioner Gardner directed the discussion back to the Board. The Board discussed among themselves the possibility of lowering the millage rate at the Final Public Hearing. After discussing among themselves and with related AMCD staff, the Board decided to think about it and vote on a final millage rate at the Final Public Hearing.

**A. A motion was made to approve the Tentative Millage rate at 0.1800 for FY23/24 as presented.**

- Motioned by: Commissioner Becker
- Motion Seconded by: Commissioner Gardner
- VOTE accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**B. A motion was made to approve the budget as presented**

- Motioned by: Commissioner Becker
- Motion Seconded by: Commissioner Gleason
- VOTE accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

- For clarification purposes Commissioner Becker noted that was a budget of, seven million three hundred ninety-four thousand four hundred eighty-three dollars.

**ADJOURNMENT:**

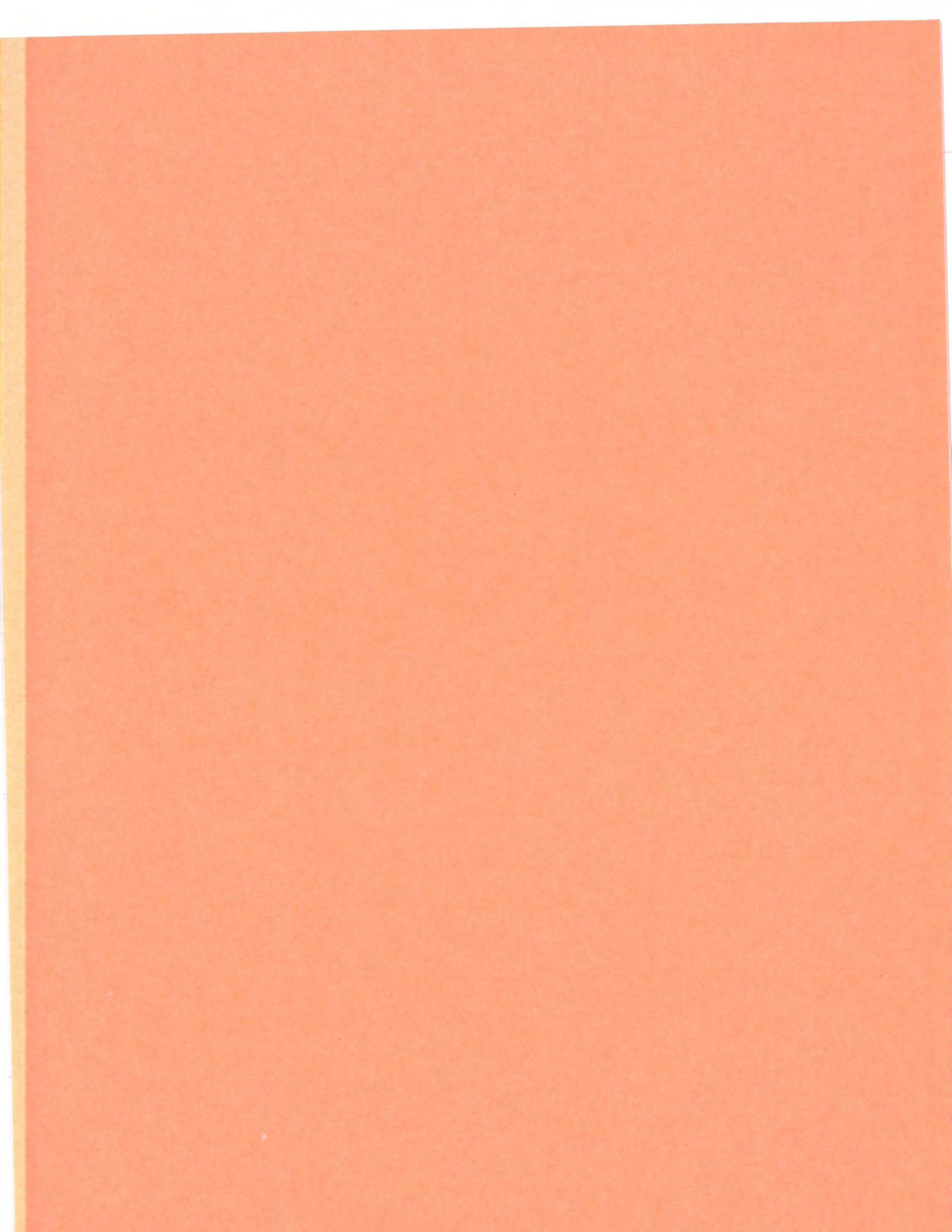
Chairperson Gardner adjourned this meeting at 5:43 P.M. and at this time the regular meeting was reconvened.

**ATTEST**

\_\_\_\_\_  
**Chairperson, Commissioner Gayle Gardner**

\_\_\_\_\_  
**Secretary/Treasurer, Commissioner Gina LeBlanc**

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Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner



## DIRECTOR

## DISTRICT

Dr. Rui-De Xue



Thursday, September 28, 2023

Next Meeting(s): Thursday, October 12, 2023 – 5:00 PM

## MINUTES

The **Final Public Hearing** meeting for the Anastasia Mosquito Control District of St. Johns County was held on Thursday, September 28, 2023 at 5:30 P.M.

Board members in attendance:

Mrs. Gayle Gardner, Chairperson  
Mrs. Trish Becker, Vice-Chairperson  
Mrs. Gina Leblanc, Secretary/Treasurer  
Mrs. Catherine Brandhorst, Commissioner  
Mrs. Martha Gleason, Commissioner

Also in attendance:

Dr. Rui-De Xue, Director  
Mr. Wayne E. Flowers, Attorney

Chairperson Gardner called the meeting to order.

Commissioner Brandhorst led the invocation and the Pledge of Allegiance to the flag.

Roll Call: Chairperson Gardner noted ~ All were present

**APPROVAL OF AGENDA: Chairperson Gardner called for approval of the Agenda.**

**A. A motion was made to approve the Agenda as presented.**

- Motioned by: Commissioner Becker
- Seconded by: Commissioner Brandhorst
- VOTE: Accepted unanimously by all commissioners
- **MOTION PASSED UNANIMOUSLY**

## **PUBLIC COMMENT:**

➤ No public comments.

## **BUSINESS:**

**Item 1: APPROVAL OF RESOLUTION 2023-01 and FINAL MILLAGE RATE at 0.1800 for**

**FY2023/2024**

- Chairperson Gayle Gardner read the full 2023-01 Resolution. There were no Commissioners comments on this item.

**A. A motion was made to approve and adopt Resolution 2023-01 and the final Millage rate at 0.1800 for FY2023/2024 as presented.**

- Motioned by: Commissioner Brandhorst
- Motion Seconded by: Commissioner Becker
- VOTE accepted by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**Item 2: APPROVAL OF RESOLUTION 2023-02 and CERTIFIED BUDGET for FY2023/2024**

- Chairperson Gayle Gardner read the full 2023-02 Resolution. Commissioner Gleason asked about the utility decrease in the budget and how the Education center and SIT building will affect the utility bill. Dr. Xue explained the Education Center has solar panels and the SIT building is not up and running yet, we will have to look at what happens. Commissioner Becker also mentioned AMCD usually has money left in the budget at the end of the fiscal year so that gives the District some cushion. There were no other Commissioner comments on this item.

**A. A motion was made to approve and adopt Resolution 2023-02 and the Certified Budget for FY2023/2024 as presented.**

- Motioned by: Commissioner Brandhorst
- Motion Seconded by: Commissioner Becker
- VOTE accepted by all commissioners
- **MOTION PASSED UNANIMOUSLY**

**BOARD COMMENTS:**

- **Commissioner Gayle Gardner:** no comment
- **Commissioner Gina LeBlanc:** no comment
- **Commissioner Brandhorst:** I feel fortunate to be a part of such a great organization.
- **Commissioner Trish Becker:** thanked the staff for all their hard work and for preparing a wonderful budget again this year.
- **Commissioner Martha Gleason:** no comment

**APPOINTED OFFICERS COMMENTS:**

- **Mr. Wayne Flowers:** no comment
- **Dr. Rui-De Xue:** no comment

**ADJOURNMENT:**

Chairperson Gayle Gardner adjourned the meeting at 5:42 P.M.

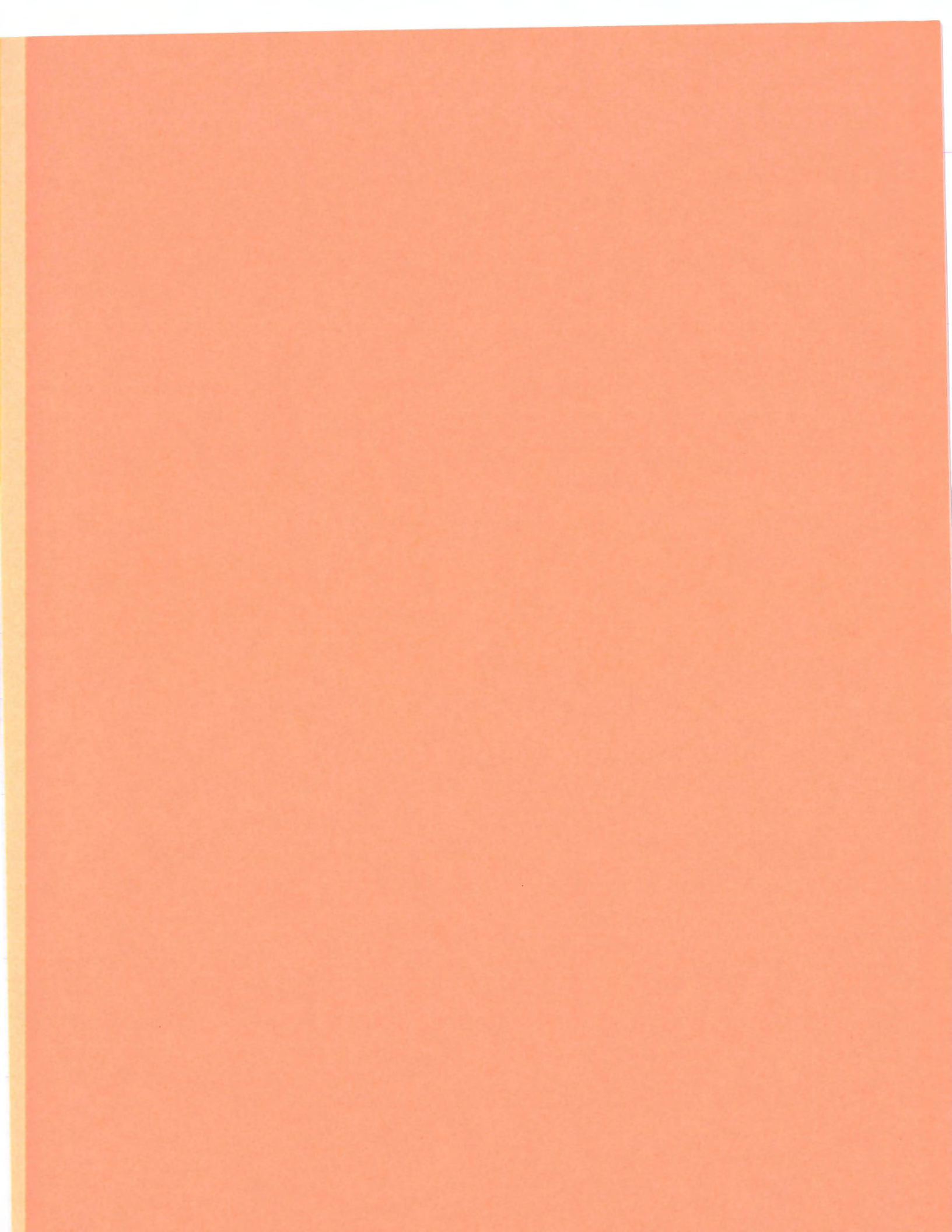
**ATTEST**

\_\_\_\_\_  
**Chairperson, Commissioner Gayle Gardner**

\_\_\_\_\_  
**Secretary/Treasurer, Commissioner Gina LeBlanc**



*These minutes are not intended to be a verbatim transcript of this meeting and could easily be misinterpreted by a reader who was not present. To obtain a full and accurate record of the meeting, an individual should view/listen to the entire proceedings via the District's DVD v*



# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## 2023 MEMO

**DISTRICT DIRECTOR**

*Dr. Rui-De Xue*



**BOARD OF COMMISSIONERS:**

*Gayle Gardner, Chairperson*

*Trish Becker, Vice-Chairperson*

*Gina LeBlacc, Secretary/Treasurer*

*Catherine Brandhorst, Commissioner*

*Martha Gleason, Commissioner*

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director, Richard Weaver Business Manager

DATE: October 13, 2023

RE: Annual Physical Inventory

---

The Business Manager Richard Weaver, Supervisor Dena Olvia, and Accountant Aye McKinney did a physical count of AMCD's property inventory, which was completed September 14, 2023.

The following are our findings, out of 156 property items:

- Items to be added - None
- Changes/Property Transfers - 108
- Salvaged/ Sold Removed - 4
- Missing items – None
- Consume - None

**PHYSICAL INVENTORY 22/23**

**ADD ITEMS TO ASSEST KEEPER**

**AMCD \$1000 AND ABOVE SEPTEMBER 2023**

PROPERTY #	ITEM
	None

None

**AMCD OVER \$500 AND UNDER \$999 SEPTEMBER 2023**

PROPERTY #	ITEM
	None

None

**AMCD UNDER \$500 SEPTEMBER 2023**

PROPERTY #	ITEM
	None

None

Richard Weaver



SIGNATURE

9/15/23

DATE

Dena Autry

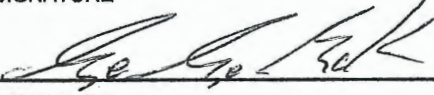


SIGNATURE

9/15/23

DATE

Aye McKinney



SIGNATURE

9/15/23

DATE

**PHYSICAL INVENTORY 22/23  
CHANGES/TRANSFERS TO BE DONE IN ASSEST KEEPER Page 1**

**AMCD \$1000 AND ABOVE SEPTEMBER 2023**

#	PROPERTY #	ITEM	ADD / CHANGE TO
1	No Number	40 ea. Truck Bed Liners	CHANGE TO: 9
2	No Number	NVG helicopter Cockpit modification	ADD: 74M
3	No Number	Helicopter Hydraulic Servo Acuator	ADD: 74M
4	No Number	FireKing GLP Filing Cabinets (2)	ADD: property numbers for each cabinet
5	No Number	Helicopter, Gyro Overhaul: N67569	CHANGE TO: Compass
6	No Number	Skidtube LH (2), D206-642-215	ADD: Right
7	No Number	Skidtube LH (2), D206-642-215	ADD: Left
8	No Number	Compressor, Aviation Cleaning - Tool	ADD: property number
9	1016B	Pressure Washer System Bldg-800	CHANGE TO: Outside
10	1203	2004 Chevy Compact 4X4 Truck-Surplus 20/24	CHANGE: Remove text Surplus 20/21 (not surplused)
11	1348	Monitor 4 w/ MFC Pump-Truck# 1550	CHANGE TO: Stock
12	1368	Winch- Quick Mount 8000 + Access-Parts-Room	CHANGE TO: Truck 1692
13	1373	Monitor IV W/MFC Pump, Truck-1643	CHANGE TO: Stock
14	1374	Monitor IV W/MFC Pump, Truck-1614	CHANGE TO: Stock
15	1375	Monitor IV W/MFC Pump, Truck-1195	CHANGE TO: Stock
16	1412	Thermal Fogger, American Longray	ADD: Parts
17	1459	Watchdog Weather Station w/Tripod & software...	CHANGE TO: Hobo
18	1459	Watchdog Weather Station w/Tripod & software...	ADD: Bldg. 800
19	1474	Dell Optiplex 9020 Desktop- Bldg. 900....	ADD: Bruner
20	1476	Dell Optiplex 9020 Desktop- Aeeoument	CHANGE TO: Stock
21	1532	Optiplex 5050 Desktop, Field Biologist	CHANGE TO: Farooq
22	1534	Optiplex 5050 Desktop, Bldg. 900 Morgan	CHANGE TO: Weir
23	1588	Optiplex 5050 SFF- Assist. Supervisor, Bldg. 100	CHANGE TO: Oliva
24	1589	Optiplex 5050 SFF- IT, Bldg. 100, Tech Room	CHANGE TO: Stockley
25	1608	Optiplex 7060 Desktop Bldg-900-Mike	CHANGE TO: Duett
26	1610	Optiplex 7060 Desktop CFO	CHANGE TO: Stock
27	1622	Helicopter, Power Supl. T11000 GPU-24....	CHANGE: Shorten description and make sure Bldg. 900 is included
28	1627	Dell PreciS 773 w/Dock Port EDU	CHANGE TO: Stock
29	1631	Laboratory Chill Table- Tax Lab	ADD: Dark Room
30	1638	Dell Lat. 5310 2-in-1 BTX Laptp- Bldg-800-Lab	CHANGE TO: Tax Lab Eddie & Connor
31	1645	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
32	1646	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab in Box
33	1647	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
34	1648	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
35	1649	BG Counter W/BG 2 Trap & Subscription	ADD: Parts Room
36	1650	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
37	1651	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
38	1652	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
39	1653	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
40	1654	BG Counter W/BG 2 Trap & Subscription	ADD: Tax Lab
41	1657	Clark CA300 20B Floor Scrubber, Walk Beh.....	CHANGE: Shorten description and make sure Bldg. 900 is included
42	1663	Optiplex 5080 SFF 32GB Memory- Operation.....	CHANGE TO: Stock
43	1664	Night Vision Goggles	ADD: Bldg. 900 Office
44	1665	2nd Night Vision Goggles	ADD: Bldg. 900 Office
45	1675	Stereo Microscope w/1080P Camera	Add: Tax Lab
46	1678	Latitude 5310 13.3" Touch Screen - Entomologist	CHANGE TO: Vindhya
47	1680	Latitude 7310, XCTO 13.3" Touch Screen....	CHANGE: Shorten description and make sure IT Laptop is included
48	1687	HATT/HYVEE Aircraft Recovery Trailer-....	CHANGE: Shorten description and make sure Bldg. 900 is included
49	1688	SONETICS-Wireles, port. Radio, 5 headsets...	CHANGE: Shorten description and make sure Bldg. 900 is included
50	1690	RPX Tech., DynaVibe GX# Kit for Rotocraft	ADD: Bldg. 900 Store Room
51	1691	Spectroflurometer, Fluorescence & Lab Solutions	CHANGE: Shorten description and make sure Bldg. 800 is included
52	1697	Monitor 5 System, w/MFC Pump	ADD: Trk 1633
53	1698	Monitor 5 System, w/MFC Pump	ADD: Truck 1550
54	1699	TS-75L Large water-base thermal Fogger Bldg....	CHANGE: Shorten description and make sure Bldg. 800 is included
55	1705	Champion R series 15HP Compressor,....	CHANGE: Shorten description and make sure Bldg. 800 is included
56	1710	Swingfog SN 101-E Truck Mount Thermal Fogger	ADD: Truck 1342
57	1711	Swingfog SN 101-E Truck Mount Thermal Fogger	ADD: Truck 1173
58	1716	Monitor 5 w/ Software	ADD: Truck 1613
59	1717	Monitor 5 w/ Software	ADD: Truck 1611
60	1722	Dell OptiPlex 7000 Sff i7, 32GB, 1TB Drive	ADD: IT Rick
61	1723	Dell OptiPlex 7000 Sff i7, 32GB, 512GB Drive....	CHANGE: Shorten description and make sure Bldg. 450 EDU Office is included

**PHYSICAL INVENTORY 22/23  
CHANGES/TRANSFERS TO BE DONE IN ASSEST KEEPER Page 2**

**AMCD \$1000 AND ABOVE SEPTEMBER 2023 continued**

#	PROPERTY #	ITEM	ADD / CHANGE TO
62	1724	Dell OptiPlex 7000 Sff i7, 32GB, 512GB Drive....	CHANGE: Shorten description and make sure Bldg. 800 is included
63	1725	Dell Latitude 5330 (i5, 215GB Drive, 13.3" W/.....	CHANGE: Shorten description and make sure Bldg. 450 Classroom is included
64	1726	Dell Latitude 5330 (i5, 215GB Drive, 13.3" W/.....	CHANGE: Shorten description and make sure Smoleroff is included
65	1727	Dell Latitude 5330 (i5, 215GB Drive, 13.3" W/.....	CHANGE: Shorten description and make sure Tax Lab is included
66	1728	Dell Latitude 5330 (i5, 215GB Drive, 13.3" W/.....	CHANGE: Shorten description and make sure Oliva is included
67	1729	Invitrogen Nanod, One Spectrophotometer-w/....	CHANGE: Shorten description and make sure Arbo Lab is included
68	1740	Fisherbrand Bead mill 24 Homogenizer	ADD: Arbo Lab
69	1741	Stainless Steel tank	ADD: Bldg. 900
70	1743	OptiPlex Small Form Factor (plus4010)	ADD: Stock
71	1744	OptiPlex Small Form Factor (plus4010)	ADD: Stock
72	1745	OptiPlex Small Form Factor (plus4010)	ADD: Stock
73	1746	OptiPlex Small Form Factor (plus4010)	ADD: McKinney
74	1747	OptiPlex Small Form Factor (plus4010)	ADD: Hanna
75	1748	OptiPlex Small Form Factor (plus4010)	ADD: Stock
76	1749	HistoCore Arcadia C-Cold Plate 110-120V	ADD: Tax Lab
77	1750	Vortex Airboat Granular Sprayer	ADD: Bldg. 900
78	1751	Olympus SZ-6145TR Trinocular Stereo....	CHANGE: Shorten description and make sure Tax Lab is included
79	1752	Olympus SZ-61 Stereo Microscope.....	CHANGE: Shorten description and make sure Tax Lab is included
80	1753	AHP-1200 CPV High Capac. Cool/Heat, LAB	ADD: Tax Lab
81	1755	2023 Ford Ranger 4X4, 4 Door	SEPARATE: 1755 & 1756 on list
82	1756	2023 Ford Ranger 4X4, 4 Door	SEPARATE: 1755 & 1756 on list



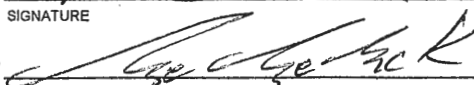
**AMCD OVER \$500 UNDER \$999 SEPTEMBER 2022**

#	PROPERTY #	ITEM	ADD / CHANGE TO
83	1400	Thermal Fogger TS35AE Longray Pulse Jet	CHANGE: Shorten description and make sure Parts is included
84	1404	Thermal Fogger TS35AE Longray Pulse Jet	CHANGE: Shorten description and make sure Parts is included
85	1411	Dell Optiplex 790 Desktop, MGT Room	CHANGE TO: Stock AV Room
86	1427	Dell Optiplex 7020 Computer -Mechanic	CHANGE TO: Surplus 22/23
87	1477	Dell Optiplex 7020 Bldg. #800	CHANGE TO: Surplus 22/23
88	1483	Boston Fogger	ADD: Surplus 22/23
89	1540	LED Trinocular Zoom Stereo Microscop- Tax Lab	CHANGE TO: Bldg. 500
90	1568	Swing Fogger Truck Mount Thermal Fogger	ADD: Parts
91	1571	Epson DC-1 Camera EDU-Office	CHANGE TO: AV Room
92	1600	Apple Ipad Mini-Pilot	CHANGE TO: Bldg. 900 Pilot
93	1626	Cannon Powershot G9 X Mark II	ADD: Education

**AMCD UNDER \$500 SEPTEMBER 2023**

#	PROPERTY #	ITEM	ADD / CHANGE TO
94	646	1979 Landau Boat	ADD: Bldg. 900
95	813	Bandsaw w/Motor	ADD: Surplus 22/23
96	1443	Thermal Fogger (truck mount) TS-95 Parts Room	CHANGE TO: Truck 1132
97	1552	London Fog Adulticide Unit, SN#10161.....	CHANGE: Shorten description and make sure Bldg. 800 is included
98	1553	London Fog Adulticide Unit, SN#10731- Truck.....	CHANGE: Shorten description and make sure Truck 1611 is included
99	1554	London Fog Adulticide Unit, SN#10929- Truck.....	CHANGE: Shorten description and make sure Truck 16131554 is included
10	1555	London Fog Adulticide Unit, SN#10168.....	CHANGE: Shorten description and make sure Bldg. 800 is included
101	1560	Monitor IV, SN-11151, London Fog ULV -.....	CHANGE TO: Remove Monitor IV, SN 11151,
102	1561	Monitor IV, SN-10738, TRK#1550	CHANGE TO: Remove Monitor IV, SN 10738, Add Fog Unit
103	1594	Samsung Galaxy Tablet E w/ 16GB Wifi w/....	CHANGE: Shorten description and make sure Tax Lab is included
104	1599	Circuit Maker- EDU-Office	CHANGE TO: MCT Room
105	1669	Mobile Entomology Lab Choice Chamber.....	CHANGE: Shorten description and make sure Bldg. 800 is included
106	1684	Go Pro w/50" Aluminum Camera TriPod	ADD: Bio Lab
107	1685	Go Pro w/50" Aluminum Camera TriPod	ADD: Bio Lab
108	1686	Go Pro w/50" Aluminum Camera TriPod	ADD: Bio Lab

PHYSICAL INVENTORY 22/23  
CHANGES/TRANSFERS TO BE DONE IN ASSEST KEEPER Page 3

Richard Weaver		9/15/23
	SIGNATURE	DATE
Dena Autry		9/15/23
	SIGNATURE	DATE
Aye McKinney		9/15/23
	SIGNATURE	DATE

**PHYSICAL INVENTORY 22/23**

**ITEM TO BE REMOVED FROM ASSET KEEPER**

**AMCD \$1000 AND ABOVE SEPTEMBER 2023**


PROPERTY #	ITEM	REASON
No Number	Maintenance Software database (Samsung)- reclass	Stopped using software 2023
1720	Dell Latitude 5320 13.3", Camera, Microphone	Duplicate (same as property # 1707)

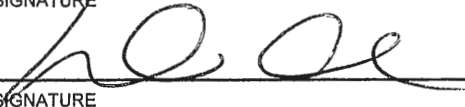
**AMCD OVER \$500 AND UNDER \$999 SEPTEMBER 2023**


PROPERTY #	ITEM	REASON
1054	40 Ton Shop Press (surplus 20/21)	Disposed 3/21/2022
1694	Twister XL-3 Back Pack Fogger	Duplicate Also in the Under \$500 section
1695	Twister XL-3 Back Pack Fogger	Duplicate Also in the Under \$500 section

**AMCD UNDER \$500 SEPTEMBER 2023**

PROPERTY #	ITEM	REASON
	None	

Richard Weaver  9/15/23  
SIGNATURE DATE

Dena Autry  9/15/23  
SIGNATURE DATE


Aye McKinney  9/15/23  
SIGNATURE DATE




**PHYSICAL INVENTORY 22/23**  
**MISSING ITEMS THAT WERE TAKEN OFF OF ASSEST KEEPER**  
**AMCD SEPTEMBER 2023**

PROPERTY #	ITEM	COMMENTS
	None	

Richard Weaver  9/15/23  
SIGNATURE DATE

Dena Autry  9/15/23  
SIGNATURE DATE

Aye McKinney  9/15/23  
SIGNATURE DATE

PHYSICAL INVENTORY 22/23  
CONSUMED ITEMS  
AMCD SEPTEMBER 2023

PROPERTY #	ITEM	CONSUMED ITEMS
	None	

Richard Weaver  9/15/23


SIGNATURE

DATE

Dena Autry  9/15/23

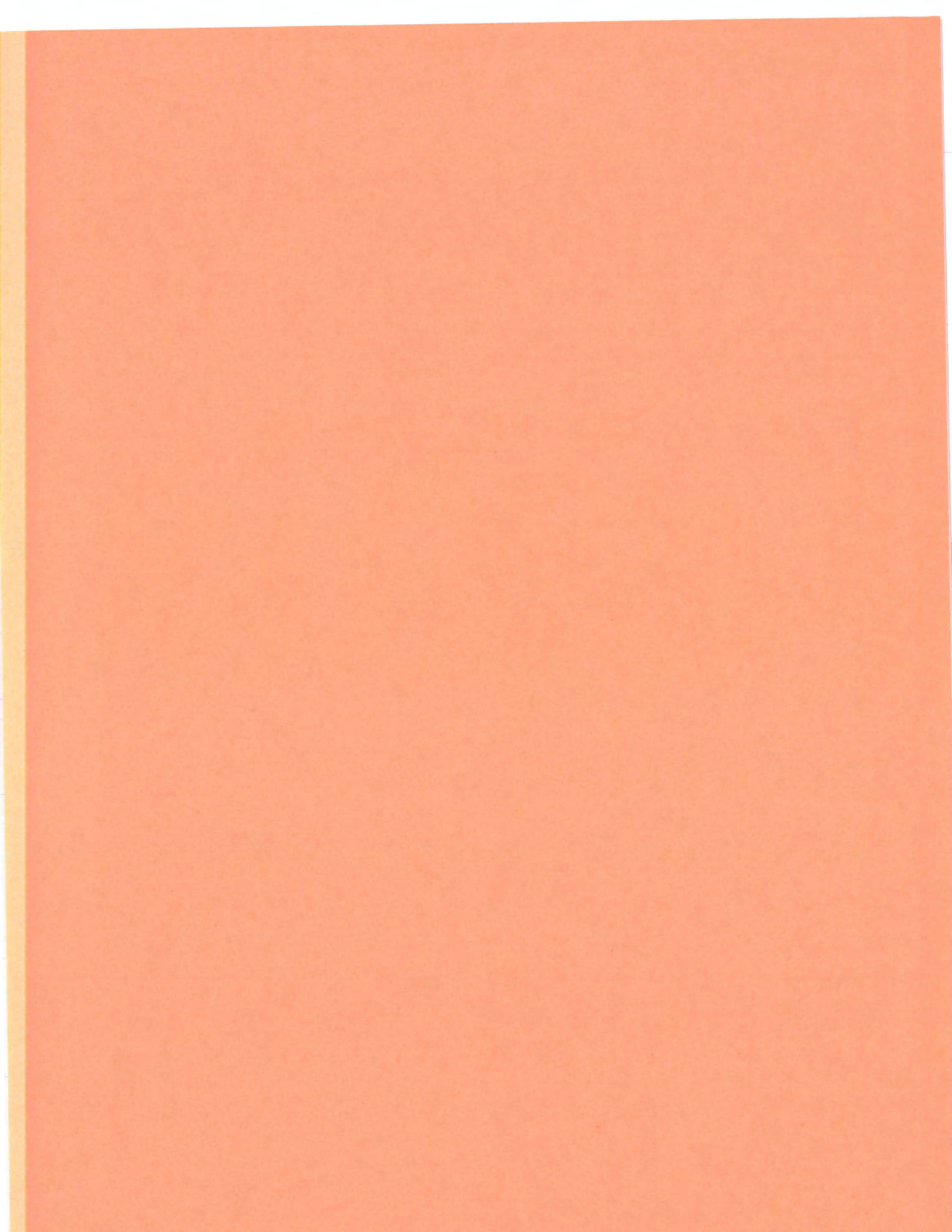
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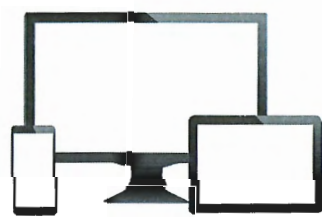
DATE

Aye McKinney  9/15/23

SIGNATURE

DATE





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# Annual Maintenance + Hosting Contract

Between

Mobisoft Digital Inc.

And

Anastasia Mosquito Control District (AMCD)

Date: 01 October 2023

**BETWEEN:** Anastasia Mosquito Control District (AMCD) (hereinafter called as “Client” which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors in interest and permitted assigns),

**AND:** Mobisoft Digital Inc. (hereinafter called as “Mobisoft” which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors in interest and assigns), a company having its registered office at 5718, Westheimer Rd Suite 1000 Houston, TX 77057.

**Whereas**, Client agrees that the entire system consisting of Mobile Application, Web Application, Server-side Implementation for their existing project AMCD Application, (Hereinafter called as “Project”) is completely functional at the time of signing this agreement.

**Whereas**, Client wishes to get the proposed maintenance service for the Project.

**Whereas**, Mobisoft desires and offers its services to maintain the Project.

## Project Scope

Project Maintenance is the process where Mobisoft will work with the Client to perform preventive maintenance activities to minimize the errors, maintain the uptime and stability of the application.

As part of the support, Mobisoft will also troubleshoot the bugs reported by the Client. Both reported and resolved bugs will be reported to the Client's support team via web ticket system.

During this engagement Mobisoft assures:

- Technical consultation and value-added solutions
- To develop and maintain an on-going relationship with a trusted external development team
- Effective communication with team and control resources
- The security and product confidentiality

Project maintenance scope will be limited to following interfaces and systems

- iOS Mobile Application (aka Mobisoft Geomosquito Employee Phone application and termed as **App/Mobile App** in entire document)  
App store link
- Web Administrative Panel (aka Mobisoft Geomosquito Database Current Live Application and termed as **Web Application** in entire document)  
Web link

## Maintenance And Support Scope

Mobisoft will perform the following maintenance and support functions on the Mobisoft Geomosquito Database (current active database and archive database) and the Geomosquito Employee Phone Application.

## Support Inclusions

- Bug Troubleshooting and Fixing
  - Analyzing and fixing the reproducible and valid bugs reported by Client.
  - Managing the bug lifecycle and communicating the status of reported bugs to Client.
  
- App Monitoring
  - Mobile App Monitoring
    - Downloading the application from respective stores every month and performing smoke testing to ensure the application is working fine.
    - Upon new OS releases by iOS, performing regression testing on new OS to analyze the impact and need of updates to the app.
  
  - Hosting Server monitoring
    - Setting up efficient and reliable server monitoring tools to monitor the servers, which ensure that servers are up and running. These tools send alerts through if the servers are down for any reason.
    - Validating if these tools are functioning properly once a month, by setting up a maintenance downtime and testing the alerts and other functioning of the tools.
  
  - App crash report analysis
    - Integrating crash reporting libraries such as Firebase Crashlytics which helps to track, prioritize, and fix stability issues. It provides detailed reports of the crashes which happen in the production environment.
  
  - Third party integration / libraries update reviews
    - Creating a list of all third-party services used in the application and monitoring release notes once in a month for updates released by the respective third-party service. If a major change is required to the application, Mobisoft will notify the Client with the required additional efforts and cost as a Change Request.
    - Verifying all third-party service accounts are active and testing of the third-party integrations once in a month to ensure those are working as

intended in the application, for eg. SMS or emails are sent properly by the application. This verification requires certain prerequisites such as access to the third-party service accounts credentials, Credit card information for payment related transactions, Phone number for the respective country for SMS verification etc. Mobisoft can verify third party accounts only if the required prerequisites are made available by the Client.

- App Upgrades
  - Upgrades after bug fixes
    - Mobile application - Deploying the mobile applications to respect App stores/Enterprise stores if any fixes are done.
    - Web application - Deploying the backend system if backend side fixes are required.
  - Upgrades for new OS
    - Mobile application - Deploying mobile applications with OS version compatibility upgrades to the respective App Stores.
    - Web application - Deploying the backend system in case of server-side OS upgrade, security upgrades to the server, SSL or Domain renewals.

***Important Note\* -***

*Only minor upgrades will be performed which doesn't require any functional change as a part of the OS upgrade itself. If the version compatibility needs any functional change, Mobisoft will notify the client of the additional scope and cost as required.*

- Management
  - App Store management and monitoring
    - Managing metadata such as application video, screenshots, application descriptions posted to the respective App Stores.
    - Analyze the notices, update emails received from respective stores regarding application such as policy changes by stores, agreement updates, developer account renewals and propose necessary course of action to Client.



- Domain Hosting and SSL Renewal monitoring
  - Monitoring renewal requirements for SSL certificate, Domain hosting for the Project. Mobisoft will set up internal alerts for such renewals and notify Client for renewals/purchase from the third-party providers. Mobisoft will perform necessary SSL installation and Domain configurations after successful purchase/renewal by Client.
- Communication & Monthly maintenance report
  - Sharing a monthly report for the activities performed and findings. Please refer [Appendix 1 - Monthly Report Sample](#)
- Server
  - Server load and utilization review
    - Report server load and utilization at the time of monthly maintenance.
    - Recommending server upgrades required for capacity planning by understanding the server's load and utilization.
  - Database backup
    - Setting up database backups as per the required frequency (Weekly, Bi-weekly, Daily). Also, sharing the snapshot with the Client team which will be further stored on the AMCD On-premises server.

## Scope Exclusions

Following activities are excluded from the technical support scope.

- New feature design, development.
- Existing feature removal.
- Direct end customer support. (The AMCD employees except Richard Weaver & Rick Stockley)
- User training or product demonstration.
- Documentation except monthly report.
- Data import from other systems.
- 24 \* 7 communication support.
- Upgrades because of third party integration changes. If third party service providers change the implementation of integration points or the workflow or guidelines of

integration, it may require changes to the Project which could be major functional change. These changes will require approval of additional scope and cost and Mobisoft will propose it as a Change Request.

## Remote Server Hosting Scope

Mobisoft will provide secure remote hosting of the Mobisoft Geomosquito Database (current active database and archive database) and the Geomosquito Employee Phone Application.

- The remote servers will be secure and will have twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year access.
- Mobisoft will provide the same uptime guarantee as given by the cloud service provider.
- The remote server will have a secondary backup server to guarantee uninterrupted service.
- Data and access to data will be both on the cloud based, Mobisoft supported server and also stored on AMCD's server.
- The Mobisoft Geomosquito Database (current active database and archive database) and the Geomosquito Employee Phone Application is guaranteed to function on both platforms (cloud based (remote server) hosted by Mobisoft and the AMCD server).
- AMCD will be provided the log in information, passwords and procedures for access to servers and log in information and passwords for access to the Database data and Employee Phone Application data.

# Mobisoft and MGIS Cooperation

## Scope

Mobisoft and MGIS will maintain a professional relationship and keep dependent software functioning.

Mobisoft Digital Inc will cooperate with and maintain a professional relationship with MGIS in order to keep all related software programs and platforms working properly and functioning correctly.

Mobisoft is providing the :

- Mobisoft Geomosquito Database (current active database and archive database).
- Mobisoft Geomosquito Employee Phone Application (iPhone)

MGIS is providing the :

- MGIS Geomosquito Mapping Solution.
- MGIS Geomosquito Public Service Request Phone Application (iPhone & Android).

This relationship between Mobisoft and MGIS will be responsible for the hosting and maintenance of their own software programs. Any hosting cost or maintenance work and/or cost affecting both parties will be billed at the parties' respective hourly rate for the affected software programs. If such costs are due to regular maintenance of the programs, the costs will be absorbed by Mobisoft & MGIS, if such costs are due to a request of AMCD, the cost will be the responsibility of AMCD.

# Process

## Process Overview

All maintenance and support activities will be performed as per following work hours and process guidelines.

- **Process implementation**

- Mobisoft will set up a web-based bug reporting system (Zoho Project or similar tool) or mutually agreed process of reporting and resolving bugs. Direct phone support is not a part of the scope, however Client can request a Scheduled call for critical discussions.
- Mobisoft will acknowledge the reported bugs and respond on the bug reporting system in business hours mentioned below.
  - **Business hours**
    - Service Hours - 9:30 AM - 7:00 PM IST (India Standard Time)
    - Service Days - Monday to Friday (except holidays)
- Mobisoft will keep the bug's status updated on the bug reporting system along with an estimated fix date, which can be further viewed and responded to by the Client.
- After the bugs have been fixed and verified by Client, the respective upgrade will be performed to the Project.

- **Process Limitations**

- Mobisoft cannot guarantee the fixed problem-solving period in case of following influencing factors:
  - Delay in response or sign off from Client
  - Delay in third party dependencies resolution by the third party
  - Delay in review or approval by iOS AppStore/Google Play Store

## Responsibilities

### Client Responsibilities

Mobisoft's performance in this agreement is dependent upon the following responsibilities being managed and fulfilled by Client.

- Make appropriate point of contact/decision maker available. Prior to the start of the Services, Client will designate a person to serve as the Client Project Manager who will be the focal point for Mobisoft communications and will have the authority to act on behalf of Client in all matters.
- Provide, in a timely manner, applicable information, data, consents, decisions, and Approval(s) required by Mobisoft.
- Facilitate access to the existing Client applications and technical infrastructure (App Store access, Third party services etc.)
- Facilitate prerequisites as required by Mobisoft to perform the activities required in this agreement.
- Uphold and follow the process set up for reporting bugs and providing necessary information to Mobisoft to reproduce and fix the bugs.
- Make the timely payments of the invoices raised by Mobisoft as per the agreed payment terms.

### Mobisoft Responsibilities

- Make appropriate point of contact available as Mobisoft Project Manager which will have authority to act on behalf of Mobisoft for the support activities.
- Make the appropriate team available to acknowledge bugs and communicate with Client via bug reporting system.
- Perform necessary activities agreed as per the Scope and Process.
- Raise invoices as per the agreed payment terms and acknowledge payment receipts.

# Pricing and Payment Terms

## Pricing

Scope	Months	Hours Per Month	Cost Per Month (USD)	Annual Cost (USD)
Maintenance	12	20	\$750	\$9000
Hosting	12	NA	\$250	\$3000

## Payment Terms

- Annual advance payment
- We have considered 20 hours of support and maintenance efforts every month. All hours carried over must be utilized within one (1) year of initial allocation.
- Mobisoft will be reporting timesheets every month and hours exceeded will be charged at \$40/ hour.
- USA based support if required will be charged at \$120/hour.
- Applicable taxes, transaction charges and deductions (if any) to be borne by the Client.
- No additional hours will be engaged without express consent of Client
- Client will address the invoice approval by email.
- Client will pay the invoice(s) via Bank of America (3<sup>rd</sup> Party E-Pay).

## Contract Term

Contract Start Date: October 1<sup>st</sup> 2023

Contract End Date: September 30<sup>th</sup> 2024

Term Renewal: This contract shall commence and continue in effect for a period of one (1) year from the contract start date (the “Term”). This contract shall automatically renew at the end of the current term or at the end of a renewal term, unless either party provides written notice of non-renewal at least thirty (30) days prior to the end of the then-current term. Automatic renewal is limited to four (4) terms of one (1) year each.

# General Terms and Conditions

- In the event of any dispute between the parties, either party may give written notice to the other of the existence or nature of the dispute and the parties shall endeavor during a period of 1 (one) month from the date of the said notice to reach an amicable settlement of the dispute.
- This Agreement may not be amended or modified by the parties in any manner, except by an instrument in writing signed on behalf of each of the parties to which such amendment or modification applies by a duly authorized officer or representative.
- Waiver: The rights of the parties hereto shall not be prejudiced or restricted by any indulgence or forbearance extended to the other party and no waiver by the parties hereto of any breach of the other party of any of the terms hereunder shall operate as a waiver in respect of any subsequent breach. No variation of this Agreement shall be effective unless in writing signed and by both parties.

## Public Records

If Mobisoft has questions regarding the application of chapter 119, Florida statutes, it is Mobisoft's duty to provide public records relating to this contract, contact Dr. Rui-De Xue, the Director of public records at (904) 471-3107, xueamcd@gmail.com, 120 EOC Drive, St. Augustine, FL 32092.

Mobisoft will comply with Chapter 119, Florida Statutes, in regard to public record laws, specifically to:

1. Keep and maintain public records required by the public agency to perform the service.
2. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in this chapter or as otherwise provided by law.
3. Ensure public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if Mobisoft does not transfer the records to the public agency.

4. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of Mobisoft or keep and maintain public records required by the public agency to perform the service. If Mobisoft transfers all public records to the public agency upon completion of the contract, Mobisoft shall destroy any duplicate public records that are exempt or confidential and exempt for public records disclosure requirements. If Mobisoft keeps and maintains public records upon completion of the contract, Mobisoft shall meet all applicable requirements for the retaining public records. All records stored electronically must be provided to the public agency, upon request from the public agency's custodian of public records, in a format that is compatible with the information technology system or the public agency.

Failure to provide the public records to the public agency within a reasonable time may subject Mobisoft to penalties under s. 119.10 and s. 119.0701(4), Florida Statutes.

**Authority to Transact Business in Florida:**

Before execution of this contract Mobisoft will obtain a certificate of authority to transact business in the State of Florida pursuant to s. 607.1503, Florida Statutes, and provide a copy of said certificate, to AMCD.

**Indemnification**

Client shall, to the extent permitted by law, at its own expense, indemnify, defend and hold harmless Mobisoft and/or their officers, directors, employees, representatives and agents, against:

- Any third party claim, demand, suit, action, or other proceeding brought against Client, or their directors, officers and/or employees, and all damages, awards, settlements, liabilities, losses, costs and expenses related thereto (including attorneys' fees) to the extent that such claim, suit, action or other proceedings is based on or arises from any deficiency in Services by Mobisoft, or on account of any breach of the terms and conditions of this Agreement, or failure in performance or observance of the role, functions, responsibilities, obligations and Services of Mobisoft specified herein, or from time to time, in terms of this Agreement.



## Limitation of Liability

- **Indirect Damages.** Mobisoft is not liable for any indirect, incidental, special, or consequential damages, including the loss of profits, revenue, data, or use or cost of procurement of substitute goods or services incurred by Client or any third party, whether in an action in contract or tort or based on warranty, even if Mobisoft or any other person has been advised of the possibility of such damages. If these limitations of liability are determined by a court of competent jurisdiction to be too extensive in scope, then these limitations shall be construed to limit liability to the maximum legally permissible extent.
- **Maximum Liability.** Mobisoft's liability for damages on any Work Assignment hereunder shall in no event exceed the amount of fees paid by Client for such Work Assignment for preceding 2 months of the date on which claim for liability has been made under this Agreement. Furthermore, Client agrees that it will not bring any claim or legal action on any Work Assignment against Mobisoft related to services provided under this Agreement after 2 months following the closure or termination of the agreement.

## Termination

- **Termination for Cause:** Either party may without prejudice to any other rights it may have under this agreement or under law, terminate this Agreement immediately if the other party commits material breach of any of the terms of this Agreement. Notwithstanding anything aforesaid, termination by either party shall be subject to the satisfactory completion of all the responsibilities undertaken as part of this Agreement.
- **Termination without Cause:** Either party may terminate this Agreement anytime, and for any reason by giving other party at least 30 (thirty) days prior written notice, subject to the satisfactory completion of all the responsibilities undertaken as part of this Agreement up to and including the date of Termination. If this termination is initiated by Client, Mobisoft is not liable to refund the payments which are already received before the date of Termination. If this termination is initiated by Mobisoft, Client will be entitled to refund of advance payment on pro-rata basis for the unexpired period of the agreement.

- **Responsibilities After Termination:** Upon termination of this agreement, Mobisoft will hold all the activities required by this agreement and handover the Project information subject to Client pays all the monetary dues accrued till the time of Termination. Client will allow Mobisoft to remove any proprietary tools set up by Mobisoft on Client servers for monitoring and alert activities before the handover.

IN WITNESS WHEREOF, the Parties have duly executed this Agreement the day and year first set forth above.


CLIENT

MOBISOFT

Sign: \_\_\_\_\_

**Gayle Gardner**

**Anastasia Mosquito Control District**

Sign:  \_\_\_\_\_

**Ravindra Waghmare**

**Mobisoft Digital Inc**

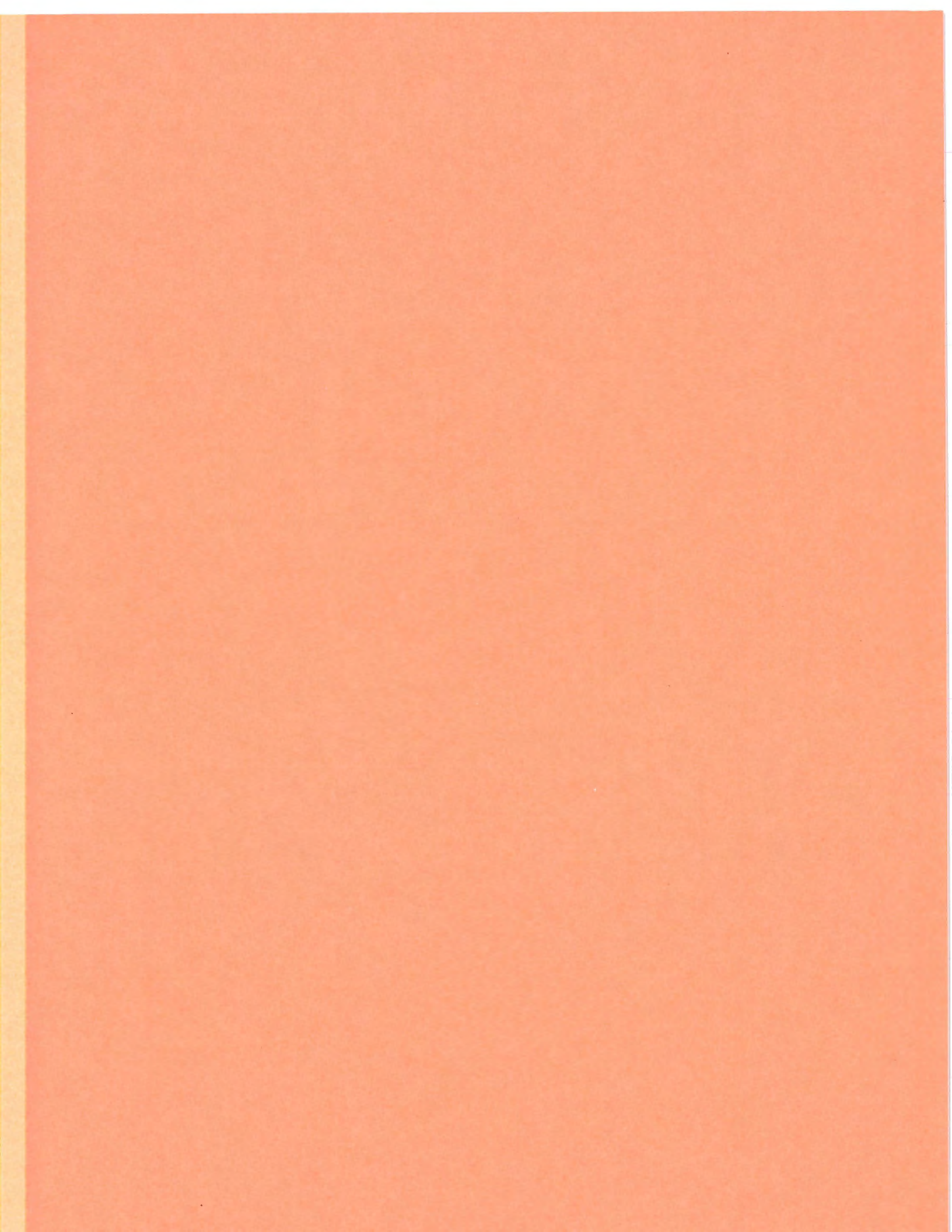
# Appendix 1 - Monthly Report Sample

**<<Project Name>> Mobile App - Monthly Maintenance Activity  
REPORT <<Month/Year>>**

Type of activities to be supported as part of contract -

#	Task	Task Type	Result
1	Latest version of the iOS App with release date	Check latest iOS app version on App Store with release date	Latest iOS App version: 2.14 Release Date: 11/08/2018
2	Latest version of the Android App with release date	Check latest android app version on Play Store with release date	Latest Android App version: 3.1 Release Date: 11/02/2018
3	Latest version of the Web App with release date	Check latest web panel version with release date	Latest web app version: 1.9.1 Release Date: 17 April 2018
4	The min and max iOS version supported	Check minimum and maximum iOS version supported for iOS app	OS supported versions: Minimum 9.0 and maximum 12
5	The min and max Android version supported	Check minimum and maximum android version supported for android app	OS supported versions: 4.2.2 minimum 8.0 - maximum
6	Test report in case of new OS or version of app is released during the month	Update Test Case Document	Test case document is updated till January 2019.
7	iOS push notifications verified on	Check web hosting and services setup	Verified on demo and it is working fine.
8	Android push notifications verified on	Check web hosting and services setup	Verified on demo and it is working fine.
9	Verified 3rd party integrations - Twilio	Check up Twilio account setup	Verified for USA number-SMS is received for OTP

10	Latest database backup date verified file name	Database backups	We are taking daily backup with retention period of 30 days.
11	Any server upgrades done in this month	Server maintenance and supporting web hosting and services	No
12	If the servers are upgraded, report the purpose of the server, reason of upgrade and test report.	Server maintenance and supporting web hosting and services	Nil
13	Percentage disk space used for each production and development server	Server monitoring	11% (Production Environment)
14	Percentage disk space used for each production and development database server	Server monitoring	Very Minimal
15	Number of issues reported in Zoho	App issues and fixes	Total Number of Issues: iOS (2) Android (1)
16	Number of unique errors observed in server logs	Check Server Logs	No error in server logs.
17	Number of unique Crash logs in crashlytics	Check Crash Logs in Crashlytics	Total number of crashing issues observed and resolved: iOS (0) Android (0)
18	Number of new issues fixed	Check new issues resolved/fixed	Total Number of Issues Fixed: iOS (0) Android (0) Web (0)



# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## MEMO

### DISTRICT DIRECTOR

Dr. Rui-De Xue



### BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson*  
*Trish Becker, Vice-Chairperson*  
*Gina LeBlanc, Secretary/Treasurer*  
*Catherine Brandhorst, Commissioner*  
*Martha Gleason, Commissioner*

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Heather Keating, Administrative Assistant

DATE: September 27, 2023

RE: Holiday Work Schedule

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At this time, we are on staggered shifts of 10-hour days for four days a week. The majority of personnel work Monday through Thursday and just a few works Tuesday through Friday.

We will again shut down the District buildings for two weeks during the Christmas and New Year's holidays. This will include 50 hours of Holiday leave {two Days for the Christmas Holiday, two days for the New Year Holiday, one of two days of the Thanksgiving Holiday which falls on a Friday (we will not observe since we do not work on Fridays due to the 10 hours / 4-day work weeks), 10 hours of administrative leave and 20 hours of Personal Annual leave. We will begin the Holiday shut down the week of Monday, December 18, 2023 through Monday, January 1, 2023 and will return to work on Monday, January 2, 2023.

During the two-week shut down, AMCD will have several technicians that will be working to maintain the chicken program, mosquito colonies, etc. Also, majority of employees would like to be called back to work if a mosquito outbreak were to occur.

Based on an analysis done of prior years of doing this, we have saved money for the District.

I again recommend approval of the 10 hours / 4-day work week as presented.

Thank you

**Holiday Dates 2023**  
**2 Week Closing (week 1)**

<b>Day of Week</b>	<b>Holiday Name or Leave Needed</b>	<b>Date Observed 2023</b>
Monday 18th	Day After Thanksgiving Day (10hrs.)	Monday 12/18/2023
Tuesday 19th	Administrative Leave (10 hrs.)	N/A
Wednesday 20th	Annual Leave (10 hrs.)	N/A
Thursday 21st	Christmas Eve (10 hrs.)	Thursday 12/21/2023
Friday 22nd	Closed	N/A

**2 Week Closing (week 2)**

<b>Day of Week</b>	<b>Holiday Name or Leave Needed</b>	<b>Date Observed 2023</b>
Monday 25th	Christmas Day (10 hrs.)	Monday 12/25/2023
Tuesday 26th	Annual Leave (10 hrs.)	N/A
Wednesday 27th	New Years Eve (10 hrs.)	Wednesday 12/27/2023
Thursday 28th	New Years Day (10 hrs.)	Thursday 12/28/2023
Friday 29th	Closed	N/A
Monday 1st	Closed	All staff works 1/2/24 to 1/5/24 10 hour shifts this week

Closed from Saturday December 16, 2023 to Monday January 1 2024, return to work Tuesday January 2, 2024.

Doors locked, gate closed and phones on closed mode

# Unfinished Business #1



# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## MEMO

### DISTRICT DIRECTOR

Dr. Rui-De Xue



### BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson  
Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner*

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Mr. Richard Weaver, Business Manager

DATE: 9/29/2023

RE: SIT (Sterile Insect Technology) Building Update

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Mr. Glenn Harrell, President of the Harrell Construction Company will give a progress update on the SIT (Sterile Insect Technology) building.



4185 Sunbeam Road, Bldg 200, Jacksonville, FL 32257  
904-739-5700 Phone 904-739-5959 Fax

# Transmittal

<b>To:</b> Board of Directors & Management	<b>From:</b> Glen Harrell
<b>Company:</b> AMCD	<b>Pages:</b> 1 of 1
<b>Phone:</b>	<b>Date:</b> 10/4/2023
<b>Re:</b> AMCD SIT Building Schedules	<b>CC:</b> Thompson, Super, File

**Schedule Updates**  **Specification**  **Change Order**  **Attached**  **Under Separate Cover**

After many unavoidable delays caused by labor shortages and shipments of back ordered materials, we can see light at the end of the tunnel. We expect to have a temporary certificate of occupancy within the next two weeks. This will allow AMCD to set up equipment and prepare to start up the new facility. You will not be allowed to take occupancy. The remaining equipment is currently scheduled to be delivered before the end of October. Once those items are in service, we can complete our work and call for our finals. Full and unrestricted use of the laboratory can begin at that time. We will be working on the owner's punch list until such time as we receive the remaining equipment.

Thank you for your support on this project.

*Glen L. Harrell, Jr.*

President

Job # 2021-15-59

# Unfinished Business #2

Good afternoon Mr. Xue,

As you may know, Senate Bill 64 was enacted by the Florida Legislature in 2021, requiring domestic water to reduce or eliminate non-beneficial surface water discharge by January 1, 2032. St. Johns County re parcel off State Road 207 to construct a new Water Reclamation Facility (WRF) to accept flows from the and Anastasia Island wastewater service areas to reduce the surface water discharge from the Anastasia Reclamation Facility to meet the goals of Senate Bill 64. As part of this construction project, the St. Johns Department will be installing approximately 15 miles of pipe connecting to the new WRF (see SR 207 Pipe

Water reuse (also commonly known as water reclamation) reclaims water from a variety of sources and reuses it for beneficial purposes such as agriculture and irrigation, potable water supplies, groundwater recharge, industrial processes, and environmental restoration. Water reuse can provide alternatives to existing water uses and be used to enhance water security, sustainability and resilience. This project will eliminate approximately 100 million gallons a day of treated effluent from being discharged into the Matanzas River and repurposes the effluent for water customers, the majority of whom live in the Northwest section of the County. The repurposed effluent will be used for irrigation, thereby saving precious groundwater that would have otherwise been used to irrigate lawns, right-of-ways, residential lawns and golf courses.

The Anastasia Mosquito Control District property has been identified as lying within the proposed easement. Attached is a map showing a proposed 15-foot Temporary Construction Easement (TCE) as well as a 35-foot utility easement for installation of the reuse line. The TCE would be used to stage and mobilize equipment. The permanent easement would be used to construct, install, access, and maintain the proposed utility line. Once the project is complete, the County would restore your property to its original condition. We have prepared a map of the Utilities for your review and consideration.

I would appreciate it if you would please contact me at (904) 209-0764 / [splewis@sjcfl.us](mailto:splewis@sjcfl.us) or Gordon Smith, Utility Director, at 209-2709 / [gsmith@sjcfl.us](mailto:gsmith@sjcfl.us) to discuss any questions you may have concerning this easement. If you would rather meet in person, we would be happy to arrange a meeting at your office or our office, whichever you prefer.

Thank you for considering this request,



**Sheri Lewis**

*Senior Real Estate Coordinator*

Land Management Systems | Real Estate

St. Johns County Board of County Commissioners

500 San Sebastian View, St. Augustine FL 32084

904-209-0764 | [www.sjcfl.us](http://www.sjcfl.us)



Prepared by:  
St. Johns County  
500 San Sebastian View  
St. Augustine, FL 32084

## TEMPORARY CONSTRUCTION EASEMENT

**THIS TEMPORARY CONSTRUCTION EASEMENT** made this \_\_\_\_ day of \_\_\_\_\_, 2023, by and between **ANASTASIA MOSQUITO DISTRICT OF ST. JOHNS COUNTY**, with a principal address of 129 EOC Drive, St. Augustine, FL 32092, as Grantor and **ST. JOHNS COUNTY**, a political subdivision of the State of Florida, whose address is 500 San Sebastian View, St. Augustine, Florida 32084, Grantee:

**WITNESSETH**, that for and in consideration of the sum of **\$10.00 (Dollars)** and other valuable considerations, receipt and sufficiency of which is hereby acknowledged, the Grantor hereby gives, grants, bargains and releases to the Grantee, a Temporary Construction Easement to enter upon and use the Grantor's property located in St. Johns County, Florida, as described and limited below, for construction access and temporary staging of construction materials and equipment, together with non-exclusive rights of ingress and egress to access the Easement Area as necessary for the use and enjoyment of the easement herein granted. Grantee shall exercise the easement rights conveyed herein in a manner which will not unreasonably interfere with use and occupancy of residential or commercial improvements constructed upon the adjacent property owned by Grantor. Grantee shall exercise the easement rights conveyed herein in a manner which are in accordance with applicable federal and state statutes, rules and regulations.

**SEE EXHIBIT "A" ATTACHED HERETO**

It is understood and agreed by the parties hereto that the rights granted herein shall be valid only between the dates of (i) January 1, 2024 through March 31, 2024, or (ii) January 1, 2025 through March 31, 2025. Access to the Easement Area shall occur only at the southeast corner of Grantor's property along the existing fence on the east side of Grantor's property. Grantee shall construct a gate at the entry point, which shall remain after project completion. No construction equipment taller than ten (15) feet above ground surface shall be stored on the Easement Property overnight. Placement of construction equipment taller than 10 feet above ground surface during working hours shall be coordinated with Grantor. Grantee shall restore the property to its original condition when the project is complete or this easement terminates, including but not limited to, refilling any holes or trenches in a proper and workmanlike manner, seeding and mulching, and restoration of landscaping, planting, pavement or other surface improvements which are required to be removed in connection with installation, construction, repair, replacement or removal of utility lines or equipment. All such restoration shall be accomplished at Grantee's sole cost and expense.

**IN WITNESS WHEREOF**, Grantor has hereunto set hand and seal the day and year first above written.

Signed, sealed and delivered in  
Our presence as Witnesses:

**ANASTASIA MOSQUITO DISTRICT  
OF ST. JOHNS COUNTY**

\_\_\_\_\_  
Print Name: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

\_\_\_\_\_  
Print Name: \_\_\_\_\_

**STATE OF FLORIDA  
COUNTY OF ST. JOHNS**

The foregoing instrument was acknowledged before me by means of  
 physical presence or  online notarization, this \_\_\_\_\_ day of  
\_\_\_\_\_, 2023, by \_\_\_\_\_, on behalf of

Anastasia Mosquito District of St. Johns County, who is personally known to me  
 or has produced \_\_\_\_\_ as identification.

(Notary Seal)

Notary Public: \_\_\_\_\_

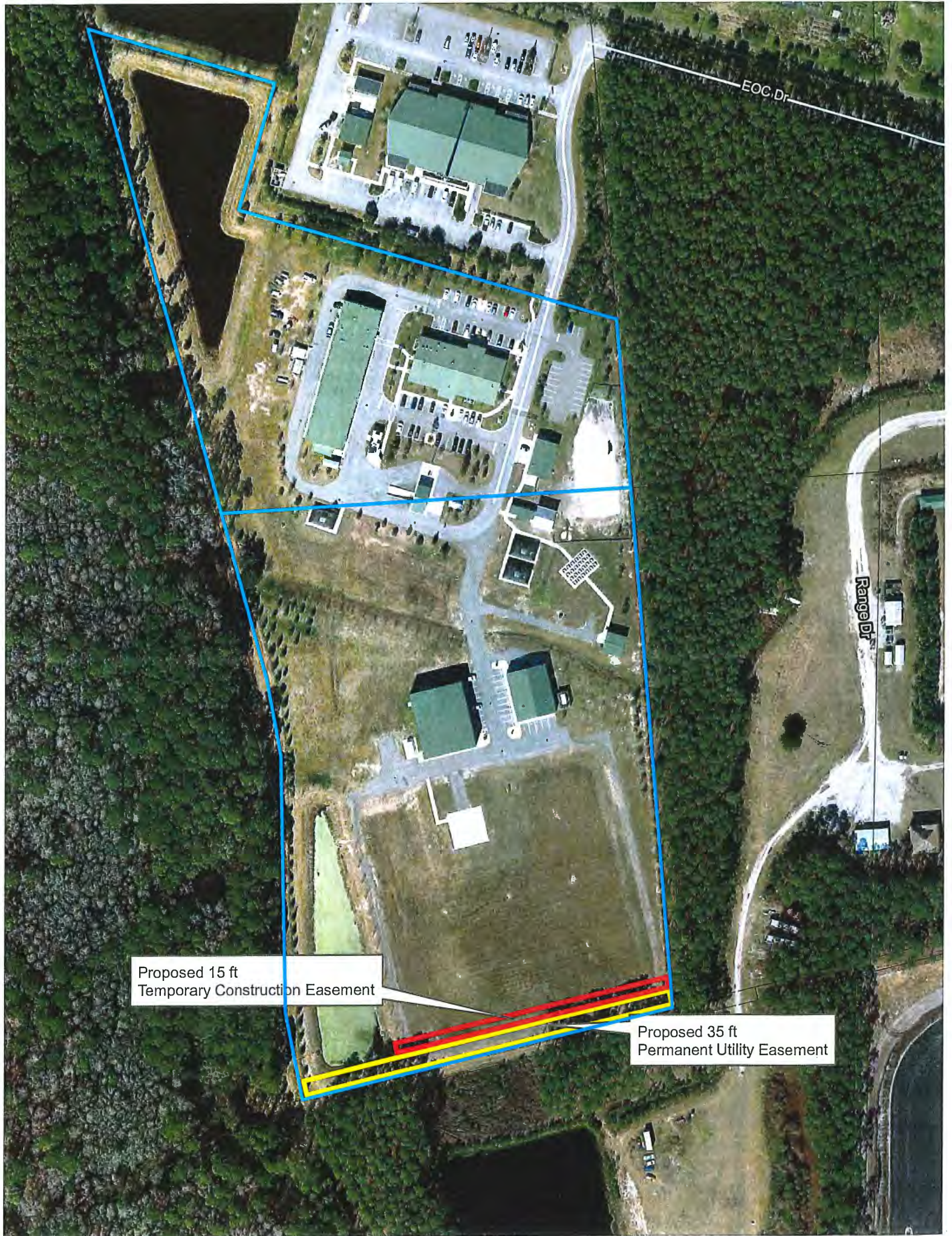
My Commission Expires: \_\_\_\_\_

DRAFT

**EXHIBIT "A"**

A PART OF SECTION 18, TOWNSHIP 7 SOUTH, RANGE 29 EAST, ST. JOHNS COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE SOUTHEAST CORNER OF THOSE LANDS DESCRIBED AND RECORDED IN OFFICIAL RECORDS BOOK 2574, PAGES 1558 THROUGH 1559 OF THE PUBLIC RECORDS OF ST. JOHNS COUNTY, FLORIDA; THENCE NORTH 04 DEGREES 47 MINUTES 42 SECONDS WEST ALONG THE EASTERLY LINE OF SAID LANDS, 15.18 FEET; THENCE SOUTH 76 DEGREES 25 MINUTES 23 SECONDS WEST, PARALLEL WITH THE SOUTHERLY LINE OF SAID LANDS, 12.12 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 76 DEGREES 25 MINUTES 23 SECONDS WEST, PARALLEL WITH THE SOUTHERLY LINE OF SAID LANDS, 277.78 FEET; THENCE NORTH 62 DEGREES 00 MINUTES 06 SECONDS WEST, 28.91 FEET; THENCE SOUTH 72 DEGREES 59 MINUTES 54 SECONDS WEST, 136.98 FEET ; THENCE NORTH 13 DEGREES 34 MINUTES 37 SECONDS WEST, 24.00 FEET; THENCE NORTH 76 DEGREES 25 MINUTES 23 SECONDS EAST PARALLEL WITH THE SOUTHERLY LINE OF SAID LANDS, 441.55 FEET; THENCE SOUTH 04 DEGREES 47 MINUTES 42 SECONDS EAST PARALLEL WITH THE EASTERLY LINE OF SAID LANDS, 35.42 FEET TO THE POINT OF BEGINNING.





EOC Dr

Range Dr

PLEASE USE DESIGNATED PARKING AREAS

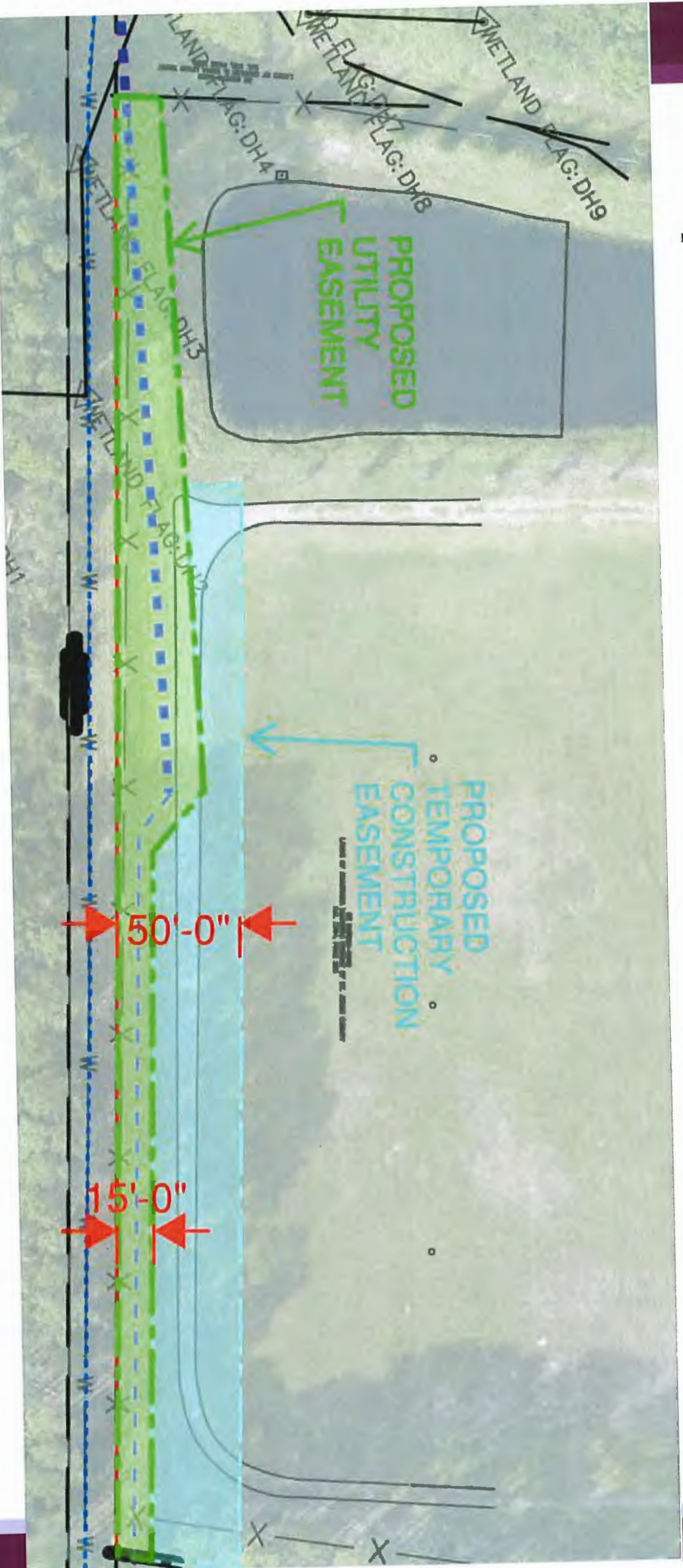
Proposed 15 ft  
Temporary Construction Easement

Proposed 35 ft  
Permanent Utility Easement

# Proposed Easements



# Proposed Easements



# Unfinished Business #3

ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY

**TREASURER'S REPORT**

**September 2023 Reconcile**

**Report for October 2023 Meeting**

Cash Balances Ending: 9/30/23

Local Fund	\$	2,505,256.83	
S.B.A. Investment Fund	\$	5,639,003.44	
Bank of America	\$	95,665.92	(E-Pay Account)
<b>Total Funds as of 09/30/23</b>	<b>\$</b>	<b>8,239,926.19</b>	

Source of Income Local/ SBA Fund: 9/30/23

Local Fund- Taxes	\$	177.45	(Gross before Commission),
SBA Fund- Ret. On Invest.	\$	34,922.97	
Local Fund - Interest	\$	604.24	
Grant Money	\$	19,400.00	FMC \$5,400, Syngenta \$11,500, Thermacell \$2,500
Surplus Property	\$	1,015.72	
Public Request	\$	20.00	
Dormatory Rent	\$	400.00	
FEMA, State	\$	3,451.03	
<b>Total Deposits by 09/30/23</b>	<b>\$</b>	<b>59,991.41</b>	

**CHEMICAL & INSECTICIDE INVENTORY**

**Report for October 2023 Meeting**

Summary

**VOUCHERS PRESENTED**

**Report for October 2023 Meeting**

Local Fund      Several

5:00 PM

10/02/23

Accrual Basis

## Anastasia Mosquito Control District VOUCHERS (Electronic Bill Pay & Canceled Checks) From 09/01/2023 through 09/30/23

Date	Num	Name	Memo	Clr	Amount	Balance
<b>110 · Wells Fargo Bank - Local</b>						1,001,392.36
<b>110-A · QuickBooks Bill Pay</b>						-8,924,378.32
Total 110-A · QuickBooks Bill Pay						-8,924,378.32
<b>110 · Wells Fargo Bank - Local - Other</b>						9,925,770.68
09/01/2023	Bill.com	WM Waste Management	https://app01....	X	-472.83	9,925,297.85
09/01/2023	Bill.com	AFLAC	https://app01....	X	-52.08	9,925,245.77
09/01/2023	Bill.com	Augustine Alarm, Fire & Soun...	https://app01....	X	-174.96	9,925,070.81
09/01/2023	Bill.com	Adapco, Inc.	https://app01....	X	-7,538.00	9,917,532.81
09/01/2023	Bill.com	St. Johns County Solid Waste	https://app01....	X	-59.40	9,917,473.41
09/01/2023	Bill.com	COPYFAX	https://app01....	X	-189.94	9,917,283.47
09/01/2023	Bill.com	Turner Ace Hardware 3016	https://app01....	X	-156.11	9,917,127.36
09/01/2023	Bill.com	Turner Ace Hardware 4022	https://app01....	X	-2.99	9,917,124.37
09/01/2023	9-#418	Wells Fargo	Wells Fargo	X	8,646.31	9,925,770.68
09/01/2023	9-#418	Wells Fargo	Bill Manager ...	X	-8,646.31	9,917,124.37
09/01/2023	9-#425	Thermacell Repellants, Inc.	Evaluation of ...	X	2,500.00	9,919,624.37
09/01/2023	Direct Dep	Catherine Brandhorst	September 20...	X	-100.00	9,919,524.37
09/01/2023	Direct Dep	Panagiota Becker	September 20...	X	-100.00	9,919,424.37
09/01/2023	Direct Dep	Gina LeBlanc	September 20...	X	-100.00	9,919,324.37
09/01/2023	Direct Dep	Martha Gleason	September 20...	X	-100.00	9,919,224.37
09/01/2023	Direct Dep	Gayle Gardner	September 20...	X	-100.00	9,919,124.37
09/05/2023	8417	NLINDAHL Design LLC	Invoice #2309...	X	-19,312.52	9,899,811.85
09/05/2023	8418	Bozard Ford	CUST#51724	X	-1,740.00	9,898,071.85
09/06/2023	8419	Dedge's Lock & Key Shop Inc.	Invoice #2073...	X	-160.00	9,897,911.85
09/06/2023	8420	Harrell Construction Co., Inc.	AMCD Complex	X	-17,989.35	9,879,922.50
09/06/2023	9-#476	Lamplight Farms, Inc.	Evaluation of ...	X	5,000.00	9,884,922.50
09/06/2023	Direct Dep	Kai Blore	Employee Ed...	X	-2,201.69	9,882,720.81
09/07/2023	9-#423	Whitney Qualls	Reimburseme...	X	-15.42	9,882,705.39
09/08/2023	Bill.com	The Home Depot	https://app01....	X	-1,238.79	9,881,466.60
09/08/2023	Bill.com	Dell Marketing	https://app01....	X	-1,513.54	9,879,953.06
09/08/2023	Bill.com	Napa Auto Parts	https://app01....	X	-30.51	9,879,922.55
09/08/2023	Bill.com	A/C Designs	https://app01....	X	-268.00	9,879,654.55
09/08/2023	Bill.com	L.V. Hiers, Inc.	https://app01....	X	-7,990.94	9,871,663.61
09/08/2023	Bill.com	Clean Harbors Env. Services	https://app01....	X	-2,248.43	9,869,415.18
09/08/2023	Bill.com	FedEx #711147748	https://app01....	X	-322.76	9,869,092.42
09/08/2023	9-#419	Wells Fargo	Bill Manager ...	X	13,612.97	9,882,705.39
09/08/2023	9-#419	Wells Fargo	Bill Manager ...	X	-13,612.97	9,869,092.42
09/11/2023	9-#426	Kaitlyn Gualillo	Dorm Rent, S...	X	385.55	9,869,477.97
09/11/2023		Wells Fargo	Deposit	X	604.24	9,870,082.21
09/11/2023	ACH Debit	Paypal		X	-1.99	9,870,080.22
09/12/2023	Phone Pay	Bank of America	4356 2200 02...	X	-42,941.67	9,827,138.55
09/12/2023	9-#432	Dana Smith	King Schools ...	X	-279.00	9,826,859.55
09/13/2023	9-#430	FEMA	FEMA, Hurric...	X	3,486.75	9,830,346.30
09/13/2023	9-#476R	Lamplight Farms, Inc.	Evaluation of ...	X	7,500.00	9,837,846.30
09/14/2023	9-#427	Payroll	Taxes Withheld	X	-21,116.96	9,816,729.34
09/14/2023	9-#427	Payroll	Bank Account...	X	-2,087.00	9,814,642.34
09/14/2023	9-#427	Payroll	Credit Union	X	-1,500.00	9,813,142.34
09/14/2023	9-#427	Payroll	Net Pay to Ba...	X	-62,436.04	9,750,706.30
09/14/2023	8421	Faye Goolrick	Service receiv...	X	-3,690.00	9,747,016.30
09/14/2023	8422	Creative Graphic Design	Invoice #0914...	X	-4,325.00	9,742,691.30
09/15/2023	Bill.com	American Crossroads Appare...	https://app01....	X	-1,092.50	9,741,598.80
09/15/2023	Bill.com	Ann Simpson	VOID: https://...	X	0.00	9,741,598.80
09/15/2023	Bill.com	Comcast Business -Phone 12...	https://app01....	X	-393.18	9,741,205.62
09/15/2023	Bill.com	FPL - EOC DR - Research-46...	https://app01....	X	-1,990.51	9,739,215.11
09/15/2023	Bill.com	COMCAST TV-Internet - 120 ...	https://app01....	X	-260.86	9,738,954.25
09/15/2023	Bill.com	Clarke Mosquito Products, Inc.	https://app01....	X	-19,405.65	9,719,548.60
09/15/2023	Bill.com	LOCALiQ Florida	https://app01....	X	-177.76	9,719,370.84
09/15/2023	Bill.com	UHS Premium Billing	https://app01....	X	-237.38	9,719,133.46
09/15/2023	Bill.com	L.V. Hiers, Inc.	https://app01....	X	-2,890.53	9,716,242.93
09/15/2023	Bill.com	FPL - EOC DR-Main33191	https://app01....	X	-2,142.36	9,714,100.57
09/15/2023	Bill.com	CINTAS- 120 EOC- MAIN	https://app01....	X	-393.24	9,713,707.33
09/15/2023	9-#432	Wells Fargo	Bill Manager ...	X	29,583.97	9,743,291.30
09/15/2023	9-#432	Wells Fargo	Bill Manager ...	X	-29,583.97	9,713,707.33
09/18/2023	8423	B & S Signs, Inc.	AMCD SIGNS	X	-2,589.85	9,711,117.48
09/19/2023	9-#431	Surplus Sales	Salvage Sale ...	X	969.61	9,712,087.09
09/20/2023	9-#424	Ralph Bruner	Specialty Tool...	X	-36.07	9,712,051.02
09/21/2023	Phone Pay	Bank of America	4356 2200 02...	X	-2,152.64	9,709,898.38
09/21/2023	Bill.com	Strate Welding Supply Co.	https://app01....	X	-46.43	9,709,851.95
09/21/2023	Bill.com	American Crossroads Appare...	https://app01....	X	-60.00	9,709,791.95

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Accrual Basis

**Anastasia Mosquito Control District**  
**VOUCHERS (Electronic Bill Pay & Canceled Checks)**  
 From 09/01/2023 through 09/30/23

Date	Num	Name	Memo	Clr	Amount	Balance	
09/21/2023	Bill.com	Ray's Automotive	https://app01....	X	-390.20	9,709,401.75	
09/21/2023	Bill.com	United Concordia	https://app01....	X	-2,063.67	9,707,338.08	
09/21/2023	Bill.com	Austin Autry Lawn Care	https://app01....	X	-604.17	9,706,733.91	
09/21/2023	Bill.com	Lewis Longman & Walker P.A.	https://app01....	X	-1,500.00	9,705,233.91	
09/21/2023	Bill.com	Florida Janitor & Paper Supply	https://app01....	X	-239.01	9,704,994.90	
09/21/2023	Bill.com	St. Johns County Property Ap...	https://app01....	X	-24,990.52	9,680,004.38	
09/21/2023	Bill.com	Qiagen LLC	https://app01....	X	-3,759.67	9,676,244.71	
09/21/2023	9-#434	Wells Fargo	Bill Manager ...	X	33,653.67	9,709,898.38	
09/21/2023	9-#434	Wells Fargo	Bill Manager ...	X	-33,653.67	9,676,244.71	
09/25/2023	8424	n8 Creative Studios	Invoice #1868...		-15,500.00	9,660,744.71	
09/25/2023	9-#433	SBA	Transfer from ...	X	2,500,000.00	12,160,744.71	
09/26/2023	8425	Leading Edge Aerial Technol...	Invoice #2789		-62,687.50	12,098,057.21	
09/26/2023	8426	Ann Simpson		X	-600.00	12,097,457.21	
09/26/2023	8427	Veseris (Formerly Univar)	CUST. No. 40...		-97,700.00	11,999,757.21	
09/26/2023	9-#425	MISC.	SOVE Meet, ...	X	-1,846.16	11,997,911.05	
09/26/2023	WIRE	Schenker, Inc.		X	-127,587.40	11,870,323.65	
09/27/2023	8428	ThompsonBaker Agency, Inc.	VOID: Acct#A...	X	0.00	11,870,323.65	
09/27/2023	8429	PGIT	WC FL1 0554...		-29,885.00	11,840,438.65	
09/27/2023	8430	ThompsonBaker Agency, Inc.	Acct#ANAST-3		-239,338.84	11,601,099.81	
09/27/2023	8431	Creative Graphic Design	Invoice #0927...		-3,175.00	11,597,924.81	
09/27/2023	9-#436	Wells Fargo	Bill Manager ...	X	600.00	11,598,524.81	
09/27/2023	9-#436	Wells Fargo	Bill Manager ...	X	-600.00	11,597,924.81	
09/28/2023	9-#435	Payroll	Taxes Withheld	X	-22,247.86	11,575,676.95	
09/28/2023	9-#435	Payroll	Bank Account...	X	-1,537.00	11,574,139.95	
09/28/2023	9-#435	Payroll	Credit Union	X	-1,500.00	11,572,639.95	
09/28/2023	9-#435	Payroll	Net Pay to Ba...	X	-66,215.62	11,506,424.33	
09/28/2023	8432	Aslyn Baringer Productions	Invoice #1744		-2,800.00	11,503,624.33	
09/28/2023	8433	Faye Goolrick	Service receiv...		-4,500.00	11,499,124.33	
09/28/2023	8434	NLINDAHL Design LLC	Invoice #2312		-6,474.33	11,492,650.00	
09/28/2023	8435	Harrell Construction Co., Inc.	AMCD Complex		-7,854.01	11,484,795.99	
09/28/2023	9-#417	Florida Retirement System	FRS Septemb...	X	-29,097.57	11,455,698.42	
09/29/2023	Bill.com	Verizon Wireless Cell Phones	https://app01....	X	-1,099.04	11,454,599.38	
09/29/2023	Bill.com	Dell Marketing	https://app01....	X	-2,160.16	11,452,439.22	
09/29/2023	Bill.com	Walmart Community	https://app01....	X	-177.92	11,452,261.30	
09/29/2023	Bill.com	Cintas Fire Protection	https://app01....	X	-625.00	11,451,636.30	
09/29/2023	Bill.com	Turner Ace Hardware 3016	https://app01....	X	-195.26	11,451,441.04	
09/29/2023	Bill.com	St. Johns County Utility Dept....	https://app01....	X	-414.78	11,451,026.26	
09/29/2023	Bill.com	COPYFAX	https://app01....	X	-223.73	11,450,802.53	
09/29/2023	Bill.com	B & S Signs, Inc.	https://app01....	X	-127.04	11,450,675.49	
09/29/2023	Bill.com	Clean Harbors Env. Services	https://app01....	X	-951.36	11,449,724.13	
09/29/2023	Bill.com	Florida Pest Control	https://app01....	X	-68.98	11,449,655.15	
09/29/2023	9-#433	Heather Keating	Out of Pocket ...	X	-120.00	11,449,535.15	
09/30/2023	8436	Artistic Contractors, Inc.	Invoice #1894		-15,400.00	11,434,135.15	
09/30/2023	8437	Flooring And More By Austin ...	Invoice #466		-1,500.00	11,432,635.15	
09/30/2023	8438	Tom Jones Concrete Solutions			-3,000.00	11,429,635.15	
Total 110 · Wells Fargo Bank - Local - Other						1,503,864.47	11,429,635.15
Total 110 · Wells Fargo Bank - Local						1,503,864.47	2,505,256.83
<b>TOTAL</b>						<b>1,503,864.47</b>	<b>2,505,256.83</b>

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**Anastasia Mosquito Control District**  
**Reconciliation Summary**  
110 · Wells Fargo Bank - Local, Period Ending 09/30/2023

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	<u>Sep 30, 23</u>
Beginning Balance	1,246,109.36
Cleared Transactions	
Checks and Payments - 83 items	-860,912.39
Deposits and Credits - 16 items	2,612,464.39
Total Cleared Transactions	<u>1,751,552.00</u>
Cleared Balance	<u><u>2,997,661.36</u></u>
Uncleared Transactions	
Checks and Payments - 14 items	-492,404.53
Total Uncleared Transactions	<u>-492,404.53</u>
Register Balance as of 09/30/2023	<u><u>2,505,256.83</u></u>
New Transactions	
Deposits and Credits - 1 item	177.45
Total New Transactions	<u>177.45</u>
Ending Balance	<u><u>2,505,434.28</u></u>



**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
**110 · Wells Fargo Bank - Local, Period Ending 09/30/2023**

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						1,246,109.36
<b>Cleared Transactions</b>						
<b>Checks and Payments - 83 items</b>						
Bill Pmt -Check	08/21/2023	8412	Bozard Ford	X	-94,517.00	-94,517.00
Bill Pmt -Check	08/29/2023	8415	Rad-Source	X	-150,200.00	-244,717.00
General Journal	08/29/2023	Direct ...	Wells Fargo	X	-5,921.32	-250,638.32
General Journal	09/01/2023	9-#418	Wells Fargo	X	-8,646.31	-259,284.63
Bill Pmt -Check	09/01/2023	Bill.com	Adapco, Inc.	X	-7,538.00	-266,822.63
Bill Pmt -Check	09/01/2023	Bill.com	WM Waste Manage...	X	-472.83	-267,295.46
Bill Pmt -Check	09/01/2023	Bill.com	COPYFAX	X	-189.94	-267,485.40
Bill Pmt -Check	09/01/2023	Bill.com	Augustine Alarm, Fir...	X	-174.96	-267,660.36
Bill Pmt -Check	09/01/2023	Bill.com	Turner Ace Hardwar...	X	-156.11	-267,816.47
General Journal	09/01/2023	Direct ...	Panagiota Becker	X	-100.00	-267,916.47
General Journal	09/01/2023	Direct ...	Gayle Gardner	X	-100.00	-268,016.47
General Journal	09/01/2023	Direct ...	Martha Gleason	X	-100.00	-268,116.47
General Journal	09/01/2023	Direct ...	Gina LeBlanc	X	-100.00	-268,216.47
General Journal	09/01/2023	Direct ...	Catherine Brandhorst	X	-100.00	-268,316.47
Bill Pmt -Check	09/01/2023	Bill.com	St. Johns County So...	X	-59.40	-268,375.87
Bill Pmt -Check	09/01/2023	Bill.com	AFLAC	X	-52.08	-268,427.95
Bill Pmt -Check	09/01/2023	Bill.com	Turner Ace Hardwar...	X	-2.99	-268,430.94
Bill Pmt -Check	09/05/2023	8417	NLINDAHL Design L...	X	-19,312.52	-287,743.46
Bill Pmt -Check	09/05/2023	8418	Bozard Ford	X	-1,740.00	-289,483.46
Bill Pmt -Check	09/06/2023	8420	Harrell Construction ...	X	-17,989.35	-307,472.81
General Journal	09/06/2023	Direct ...	Kai Blore	X	-2,201.69	-309,674.50
Bill Pmt -Check	09/06/2023	8419	Dedge's Lock & Key ...	X	-160.00	-309,834.50
General Journal	09/07/2023	9-#423	Whitney Qualls	X	-15.42	-309,849.92
General Journal	09/08/2023	9-#419	Wells Fargo	X	-13,612.97	-323,462.89
Bill Pmt -Check	09/08/2023	Bill.com	L.V. Hiers, Inc.	X	-7,990.94	-331,453.83
Bill Pmt -Check	09/08/2023	Bill.com	Clean Harbors Env. ...	X	-2,248.43	-333,702.26
Bill Pmt -Check	09/08/2023	Bill.com	Dell Marketing	X	-1,513.54	-335,215.80
Bill Pmt -Check	09/08/2023	Bill.com	The Home Depot	X	-1,238.79	-336,454.59
Bill Pmt -Check	09/08/2023	Bill.com	FedEx #711147748	X	-322.76	-336,777.35
Bill Pmt -Check	09/08/2023	Bill.com	A/C Designs	X	-268.00	-337,045.35
Bill Pmt -Check	09/08/2023	Bill.com	Napa Auto Parts	X	-30.51	-337,075.86
Bill Pmt -Check	09/11/2023	ACH ...	Paypal	X	-1.99	-337,077.85
Bill Pmt -Check	09/12/2023	Phone...	Bank of America	X	-42,941.67	-380,019.52
General Journal	09/12/2023	9-#432	Dana Smith	X	-279.00	-380,298.52
General Journal	09/14/2023	9-#427	Payroll	X	-62,436.04	-442,734.56
General Journal	09/14/2023	9-#427	Payroll	X	-21,116.96	-463,851.52
Bill Pmt -Check	09/14/2023	8422	Creative Graphic De...	X	-4,325.00	-468,176.52
Bill Pmt -Check	09/14/2023	8421	Faye Goolrick	X	-3,690.00	-471,866.52
General Journal	09/14/2023	9-#427	Payroll	X	-2,087.00	-473,953.52
General Journal	09/14/2023	9-#427	Payroll	X	-1,500.00	-475,453.52
General Journal	09/15/2023	9-#432	Wells Fargo	X	-29,583.97	-505,037.49
Bill Pmt -Check	09/15/2023	Bill.com	Clarke Mosquito Pro...	X	-19,405.65	-524,443.14
Bill Pmt -Check	09/15/2023	Bill.com	L.V. Hiers, Inc.	X	-2,890.53	-527,333.67
Bill Pmt -Check	09/15/2023	Bill.com	FPL - EOC DR-Main...	X	-2,142.36	-529,476.03
Bill Pmt -Check	09/15/2023	Bill.com	FPL - EOC DR - Re...	X	-1,990.51	-531,466.54
Bill Pmt -Check	09/15/2023	Bill.com	American Crossroad...	X	-1,092.50	-532,559.04
Bill Pmt -Check	09/15/2023	Bill.com	CINTAS- 120 EOC- ...	X	-393.24	-532,952.28
Bill Pmt -Check	09/15/2023	Bill.com	Comcast Business -...	X	-393.18	-533,345.46
Bill Pmt -Check	09/15/2023	Bill.com	COMCAST TV-Inter...	X	-260.86	-533,606.32
Bill Pmt -Check	09/15/2023	Bill.com	UHS Premium Billing	X	-237.38	-533,843.70
Bill Pmt -Check	09/15/2023	Bill.com	LOCALIQ Florida	X	-177.76	-534,021.46
General Journal	09/20/2023	9-#424	Ralph Bruner	X	-36.07	-534,057.53
General Journal	09/21/2023	9-#434	Wells Fargo	X	-33,653.67	-567,711.20
Bill Pmt -Check	09/21/2023	Bill.com	St. Johns County Pr...	X	-24,990.52	-592,701.72
Bill Pmt -Check	09/21/2023	Bill.com	Qiagen LLC	X	-3,759.67	-596,461.39
Bill Pmt -Check	09/21/2023	Phone...	Bank of America	X	-2,152.64	-598,614.03
Bill Pmt -Check	09/21/2023	Bill.com	United Concordia	X	-2,063.67	-600,677.70
Bill Pmt -Check	09/21/2023	Bill.com	Lewis Longman & W...	X	-1,500.00	-602,177.70
Bill Pmt -Check	09/21/2023	Bill.com	Austin Autry Lawn C...	X	-604.17	-602,781.87
Bill Pmt -Check	09/21/2023	Bill.com	Ray's Automotive	X	-390.20	-603,172.07
Bill Pmt -Check	09/21/2023	Bill.com	Florida Janitor & Pa...	X	-239.01	-603,411.08
Bill Pmt -Check	09/21/2023	Bill.com	American Crossroad...	X	-60.00	-603,471.08
Bill Pmt -Check	09/21/2023	Bill.com	Strate Welding Supp...	X	-46.43	-603,517.51
Bill Pmt -Check	09/26/2023	WIRE	Schenker, Inc.	X	-127,587.40	-731,104.91
General Journal	09/26/2023	9-#425	MISC.	X	-1,846.16	-732,951.07
Bill Pmt -Check	09/26/2023	8426	Ann Simpson	X	-600.00	-733,551.07

Type	Date	Num	Name	Clr	Amount	Balance
General Journal	09/27/2023	9-#436	Wells Fargo	X	-600.00	-734,151.07
General Journal	09/28/2023	9-#435	Payroll	X	-66,215.62	-800,366.69
General Journal	09/28/2023	9-#417	Florida Retirement S...	X	-29,097.57	-829,464.26
General Journal	09/28/2023	9-#435	Payroll	X	-22,247.86	-851,712.12
General Journal	09/28/2023	9-#435	Payroll	X	-1,537.00	-853,249.12
General Journal	09/28/2023	9-#435	Payroll	X	-1,500.00	-854,749.12
Bill Pmt -Check	09/29/2023	Bill.com	Dell Marketing	X	-2,160.16	-856,909.28
Bill Pmt -Check	09/29/2023	Bill.com	Verizon Wireless Ce...	X	-1,099.04	-858,008.32
Bill Pmt -Check	09/29/2023	Bill.com	Clean Harbors Env. ...	X	-951.36	-858,959.68
Bill Pmt -Check	09/29/2023	Bill.com	Cintas Fire Protection	X	-625.00	-859,584.68
Bill Pmt -Check	09/29/2023	Bill.com	St. Johns County Uti...	X	-414.78	-859,999.46
Bill Pmt -Check	09/29/2023	Bill.com	COPYFAX	X	-223.73	-860,223.19
Bill Pmt -Check	09/29/2023	Bill.com	Turner Ace Hardwar...	X	-195.26	-860,418.45
Bill Pmt -Check	09/29/2023	Bill.com	Walmart Community	X	-177.92	-860,596.37
Bill Pmt -Check	09/29/2023	Bill.com	B & S Signs, Inc.	X	-127.04	-860,723.41
General Journal	09/29/2023	9-#433	Heather Keating	X	-120.00	-860,843.41
Bill Pmt -Check	09/29/2023	Bill.com	Florida Pest Control	X	-68.98	-860,912.39
Total Checks and Payments					-860,912.39	-860,912.39
<b>Deposits and Credits - 16 items</b>						
General Journal	08/29/2023	Direct ...	Wells Fargo	X	5,921.32	5,921.32
General Journal	09/01/2023	9-#425	Thermacell Repellan...	X	2,500.00	8,421.32
General Journal	09/01/2023	9-#418	Wells Fargo	X	8,646.31	17,067.63
General Journal	09/06/2023	9-#476	Lamplight Farms, Inc.	X	5,000.00	22,067.63
General Journal	09/08/2023	9-#419	Wells Fargo	X	13,612.97	35,680.60
General Journal	09/11/2023	9-#426	Kaitlyn Gualillo	X	385.55	36,066.15
Deposit	09/11/2023		Wells Fargo	X	604.24	36,670.39
General Journal	09/13/2023	9-#430	FEMA	X	3,486.75	40,157.14
General Journal	09/13/2023	9-#476R	Lamplight Farms, Inc.	X	7,500.00	47,657.14
Bill Pmt -Check	09/15/2023	Bill.com	Ann Simpson	X		47,657.14
General Journal	09/15/2023	9-#432	Wells Fargo	X	29,583.97	77,241.11
General Journal	09/19/2023	9-#431	Surplus Sales	X	969.61	78,210.72
General Journal	09/21/2023	9-#434	Wells Fargo	X	33,653.67	111,864.39
General Journal	09/25/2023	9-#433	SBA	X	2,500,000.00	2,611,864.39
Bill Pmt -Check	09/27/2023	8428	ThompsonBaker Ag...	X		2,611,864.39
General Journal	09/27/2023	9-#436	Wells Fargo	X	600.00	2,612,464.39
Total Deposits and Credits					2,612,464.39	2,612,464.39
Total Cleared Transactions					1,751,552.00	1,751,552.00
Cleared Balance					1,751,552.00	2,997,661.36
<b>Uncleared Transactions</b>						
<b>Checks and Payments - 14 items</b>						
Bill Pmt -Check	09/18/2023	8423	B & S Signs, Inc.		-2,589.85	-2,589.85
Bill Pmt -Check	09/25/2023	8424	n8 Creative Studios		-15,500.00	-18,089.85
Bill Pmt -Check	09/26/2023	8427	Veseris (Formerly U...		-97,700.00	-115,789.85
Bill Pmt -Check	09/26/2023	8425	Leading Edge Aerial...		-62,687.50	-178,477.35
Bill Pmt -Check	09/27/2023	8430	ThompsonBaker Ag...		-239,338.84	-417,816.19
Bill Pmt -Check	09/27/2023	8429	PGIT		-29,885.00	-447,701.19
Bill Pmt -Check	09/27/2023	8431	Creative Graphic De...		-3,175.00	-450,876.19
Bill Pmt -Check	09/28/2023	8435	Harrell Construction ...		-7,854.01	-458,730.20
Bill Pmt -Check	09/28/2023	8434	NLINDAHL Design L...		-6,474.33	-465,204.53
Bill Pmt -Check	09/28/2023	8433	Faye Goolrick		-4,500.00	-469,704.53
Bill Pmt -Check	09/28/2023	8432	Aslyn Baringer Prod...		-2,800.00	-472,504.53
Bill Pmt -Check	09/30/2023	8436	Artistic Contractors, ...		-15,400.00	-487,904.53
Bill Pmt -Check	09/30/2023	8438	Tom Jones Concret...		-3,000.00	-490,904.53
Bill Pmt -Check	09/30/2023	8437	Flooring And More B...		-1,500.00	-492,404.53
Total Checks and Payments					-492,404.53	-492,404.53
Total Uncleared Transactions					-492,404.53	-492,404.53
Register Balance as of 09/30/2023					1,259,147.47	2,505,256.83

Type	Date	Num	Name	Clr	Amount	Balance
<b>New Transactions</b>						
<b>Deposits and Credits - 1 item</b>						
General Journal	10/02/2023	Direct ...	St. Johns County Ta...		177.45	177.45
Total Deposits and Credits					177.45	177.45
Total New Transactions					177.45	177.45
<b>Ending Balance</b>					<b>1,259,324.92</b>	<b>2,505,434.28</b>

7:47 AM

10/03/23

Anastasia Mosquito Control District  
**Reconciliation Summary**  
115 · SBA, Period Ending 09/30/2023

---

	<u>Sep 30, 23</u>
Beginning Balance	8,104,080.47
Cleared Transactions	
Checks and Payments - 1 item	-2,500,000.00
Deposits and Credits - 1 item	34,922.97
Total Cleared Transactions	<u>-2,465,077.03</u>
Cleared Balance	<u><b>5,639,003.44</b></u>
Register Balance as of 09/30/2023	5,639,003.44
Ending Balance	5,639,003.44

7:47 AM

10/03/23

**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
115 · SBA, Period Ending 09/30/2023

---

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						8,104,080.47
<b>Cleared Transactions</b>						
<b>Checks and Payments - 1 item</b>						
General Journal	09/25/2023	9-#433	SBA	X	-2,500,000.00	-2,500,000.00
Total Checks and Payments					-2,500,000.00	-2,500,000.00
<b>Deposits and Credits - 1 item</b>						
Deposit	09/30/2023			X	34,922.97	34,922.97
Total Deposits and Credits					34,922.97	34,922.97
Total Cleared Transactions					-2,465,077.03	-2,465,077.03
Cleared Balance					-2,465,077.03	5,639,003.44
Register Balance as of 09/30/2023					-2,465,077.03	5,639,003.44
<b>Ending Balance</b>					<b>-2,465,077.03</b>	<b>5,639,003.44</b>



**State Board of Administration**  
**Local Government Surplus Funds Trust Fund**  
**Participant Statement**

**AGENCY ACCOUNT 101071**  
 09/01/2023 - 09/30/2023

ANASTASIA MOSQUITO CONTROL DIS  
 OF ST JOHNS COUNTY  
 120 EOC DRIVE  
 ST. AUGUSTINE, FL 32092

Participant Return 09/30/2023 : 5.59 %

Date	Transaction Type	Description	Amount	Balance
09/01/2023	BEGINNING BALANCE			8,104,080.47
09/25/2023	WITHDRAWAL	SCOTT HANNA	(2,500,000.00)	5,604,080.47
09/30/2023	EARNED INCOME	INTEREST	34,922.97	5,639,003.44
	Totals:		<u>(2,465,077.03)</u>	<u>5,639,003.44</u>

8:33 AM

10/03/23

**Anastasia Mosquito Control District**  
**Reconciliation Summary**  
112 · Bank of America, Period Ending 09/30/2023

---

	<u>Sep 30, 23</u>
Beginning Balance	141,655.50
Cleared Transactions	
Checks and Payments - 5 items	<u>-45,989.58</u>
Total Cleared Transactions	<u>-45,989.58</u>
Cleared Balance	<u><b>95,665.92</b></u>
Register Balance as of 09/30/2023	95,665.92
Ending Balance	95,665.92

8:33 AM

10/03/23

**Anastasia Mosquito Control District**  
**Reconciliation Detail**  
**112 · Bank of America, Period Ending 09/30/2023**

Type	Date	Num	Name	Clr	Amount	Balance
<b>Beginning Balance</b>						141,655.50
<b>Cleared Transactions</b>						
<b>Checks and Payments - 5 items</b>						
Bill Pmt -Check	09/14/2023	E-Pay	Nationwide Retirem...	X	-2,231.00	-2,231.00
Check	09/15/2023		Bank of America	X	-265.31	-2,496.31
Bill Pmt -Check	09/20/2023	Phone...	Blue Cross Blue Shi...	X	-40,896.77	-43,393.08
Bill Pmt -Check	09/20/2023	E-Pay	Guardian	X	-365.50	-43,758.58
Bill Pmt -Check	09/28/2023	E-Pay	Nationwide Retirem...	X	-2,231.00	-45,989.58
<b>Total Checks and Payments</b>					<b>-45,989.58</b>	<b>-45,989.58</b>
<b>Total Cleared Transactions</b>					<b>-45,989.58</b>	<b>-45,989.58</b>
<b>Cleared Balance</b>					<b>-45,989.58</b>	<b>95,665.92</b>
<b>Register Balance as of 09/30/2023</b>					<b>-45,989.58</b>	<b>95,665.92</b>
<b>Ending Balance</b>					<b>-45,989.58</b>	<b>95,665.92</b>







P.O. Box 15284  
Wilmington, DE 19850

ANASTASIA MOSQUITO CONTROL DISTRICT OF  
ST. JOHNS COUNTY  
LOCAL GOVERNMENT  
120 EOC DR  
ST AUGUSTINE, FL 32092-0927

**Customer service information**

-  Customer service: 1.888.400.9009
-  bankofamerica.com
-  Bank of America, N.A.  
P.O. Box 25118  
Tampa, Florida 33622-5118

## Your Full Analysis Business Checking

for September 1, 2023 to September 30, 2023

Account number: 8981 0275 2170

**ANASTASIA MOSQUITO CONTROL DISTRICT OF ST. JOHNS COUNTY LOCAL GOVERNMENT**

### Account summary

Beginning balance on September 1, 2023	\$141,655.50
Deposits and other credits	0.00
Withdrawals and other debits	-45,724.27
Checks	-0.00
Service fees	-265.31
<b>Ending balance on September 30, 2023</b>	<b>\$95,665.92</b>

# of deposits/credits: 0  
 # of withdrawals/debits: 6  
 # of days in cycle: 30  
 Average ledger balance: \$126,284.76





Florida Department of Agriculture and Consumer Services  
Division of Agricultural Environmental Services

Submit to:  
Mosquito Control Program  
3125 Conner Blvd, Suite E  
Tallahassee, FL 32399-1650

**ARTHROPOD CONTROL BUDGET AMENDMENT**

Wilton Simpson  
COMMISSIONER

Rule 5E-13.027, F.A.C.  
Telephone: (850) 617-7911; Fax (850) 617-7939

A STATEMENT EXPLAINING AND JUSTIFYING THE PROPOSED CHANGES SHOULD ACCOMPANY EACH APPLICATION FOR BUDGET AMENDMENT. USE PAGE TWO FOR THIS PURPOSE.

Amendment No. 2024-01 Fiscal Year: 2023-2024 Date: 10/12/2023

Amending: Local Funds X State Funds    (Check appropriate fund account to be amended. Use a separate form for each fund). The Board of Commissioners for Anastasia Mosquito Control District hereby submits to the Department of Agriculture and Consumer Services,

for its consideration and approval, the following amendment for the current fiscal year as follows:

**ESTIMATED RECEIPTS**

NOTE: The budget cannot be amended to show an increase in receipts over the amount budgeted unless authorized.

Total Available Cash and Receipts	Reserves	Present Budget	Increase Request	Decrease Request	Revised Budget
\$ 15,295,715.00	\$ 5,943,825.00	\$ 15,295,715.00	\$ 1,400,482.19	\$ 30,968.00	\$ 16,665,229.19

NAME SOURCE OF INCREASE: (Explain Decrease) \_\_\_\_\_

**BUDGETED RECEIPTS**

ACCT NO	Description	Present Budget	Increase Request	Decrease Request	Revised Budget
311	Ad Valorem (Current/Delinquent)	\$ 8,160,303.00	\$ -	\$ -	\$ 8,160,303.00
334.1	State Grant	\$ -	\$ -	\$ -	\$ -
362	Equipment Rentals	\$ -	\$ -	\$ -	\$ -
337	Grants and Donations	\$ 100,000.00	\$ -	\$ -	\$ 100,000.00
361	Interest Earnings	\$ 140,000.00	\$ -	\$ -	\$ 140,000.00
364	Equipment and/or Other Sales	\$ -	\$ -	\$ -	\$ -
369	Misc./Refunds (prior yr expenditures)	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00
380	Other Sources	\$ -	\$ -	\$ -	\$ -
389	Loans	\$ -	\$ -	\$ -	\$ -
<b>TOTAL RECEIPTS</b>		\$ 8,425,303.00	\$ -	\$ -	\$ 8,425,303.00
Beginning Fund Balance		\$ 6,870,412.00	\$ 1,369,514.19	\$ -	\$ 8,239,926.19
<b>Total Budgetary Receipts &amp; Balances</b>		\$ 15,295,715.00	\$ 1,369,514.19	\$ -	\$ 16,665,229.19

**BUDGETED EXPENDITURES**

NOTE: Total increase must equal total decrease, unless the total "Present Budget" is revised.

ACCT NO	Uniform Accounting System Transaction	Present Budget	Increase Request	Decrease Request	Revised Budget
10	Personal Services	\$ 2,535,851.00	\$ 28,767.30	\$ -	\$ 2,564,618.30
20	Personal Services Benefits	\$ 1,344,855.00	\$ 2,200.70	\$ -	\$ 1,347,055.70
30	Operating Expense	\$ 596,145.00	\$ -	\$ -	\$ 596,145.00
40	Travel & Per Diem	\$ 56,293.00	\$ -	\$ -	\$ 56,293.00
41	Communication Services	\$ 25,904.00	\$ -	\$ -	\$ 25,904.00
42	Freight Services	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00
43	Utility Service	\$ 60,000.00	\$ -	\$ -	\$ 60,000.00
44	Rentals & Leases	\$ 1,000.00	\$ -	\$ -	\$ 1,000.00
45	Insurance	\$ 327,092.00	\$ -	\$ -	\$ 327,092.00
46	Repairs & Maintenance	\$ 200,950.00	\$ -	\$ -	\$ 200,950.00
47	Printing and Binding	\$ 500.00	\$ -	\$ -	\$ 500.00
48	Promotional Activities	\$ 20,000.00	\$ -	\$ -	\$ 20,000.00
49	Other Charges	\$ 6,325.00	\$ -	\$ -	\$ 6,325.00
51	Office Supplies	\$ 24,000.00	\$ -	\$ -	\$ 24,000.00
52.1	Gasoline/Oil/Lube	\$ 143,280.00	\$ -	\$ -	\$ 143,280.00
52.2	Chemicals	\$ 754,830.00	\$ -	\$ -	\$ 754,830.00
52.3	Protective Clothing	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00
52.4	Misc. Supplies	\$ 179,961.00	\$ -	\$ -	\$ 179,961.00
52.5	Tools & Implements	\$ 5,000.00	\$ -	\$ -	\$ 5,000.00
54	Publications & Dues	\$ 31,440.00	\$ -	\$ -	\$ 31,440.00
55	Training	\$ 35,000.00	\$ -	\$ -	\$ 35,000.00
60	Capital Outlay	\$ 2,071,700.00	\$ -	\$ -	\$ 2,071,700.00
71	Principal	\$ -	\$ -	\$ -	\$ -
72	Interest	\$ -	\$ -	\$ -	\$ -
81	Aids to Government Agencies	\$ -	\$ -	\$ -	\$ -
83	Other Grants and Aids	\$ -	\$ -	\$ -	\$ -
89	Contingency (Current Year)	\$ 926,764.00	\$ -	\$ 30,968.00	\$ 895,796.00
99	Payment of Prior Year Accounts	\$ -	\$ -	\$ -	\$ -
<b>TOTAL BUDGET AND CHARGES</b>		\$ 9,351,890.00	\$ 30,968.00	\$ 30,968.00	\$ 9,351,890.00
0.001	Reserves - Future Capital Outlay	\$ 4,128,800.00	\$ 1,369,514.19	\$ -	\$ 5,498,314.19
0.002	Reserves - Self-Insurance	\$ -	\$ -	\$ -	\$ -
0.003	Reserves - Cash Balance to be Carried Forward	\$ 1,685,025.00	\$ -	\$ -	\$ 1,685,025.00
0.004	Reserves - Sick and Annual Leave	\$ 130,000.00	\$ -	\$ -	\$ 130,000.00
<b>TOTAL RESERVES</b>		\$ 5,943,825.00	\$ 1,369,514.19	\$ -	\$ 7,313,339.19
<b>TOTAL BUDGETARY EXPENDITURES and BALANCES</b>		\$ 15,295,715.00	\$ 1,400,482.19	\$ 30,968.00	\$ 16,665,229.19
<b>ENDING FUND BALANCE</b>		\$ -	\$ (30,968.00)	\$ (30,968.00)	\$ -

APPROVED: \_\_\_\_\_  
Chairman of the Board, or Clerk of Circuit Court

DATE \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Mosquito Control Program

DATE \_\_\_\_\_

COMPUTATIONS

**LOCAL FUND**

I) Holiday Bonus Amendment

Holiday Bonus & Recognition Awards (SEE: Attachment)		\$	42,468.00
Budgeted for Merrit/ Recognition/ Step Increases	21,500.00		
Retention for 2023/24 Step Increases	(10,000.00)		
<b>Less: Net Currently Available</b>		\$	<u>11,500.00</u>
<b>TOTAL REGULAR BUDGET AMENDMENT</b>		\$	<b>30,968.00</b>

II) Beginning Fund Balance, Increase, Adjusting Entry, Local Fund

Beginning Fund Balance, ( <i>Actual</i> ) 23/24 as verified/ reconciled <i>Post-Budget Passing</i>	\$	8,239,926.19
Less: Beginning Fund Balance, ( <i>Estimate</i> ) as Passed in <i>Budget Hearing</i>	\$	<u>(6,870,412.00)</u>
Increase: in Beginning Fund Balance 23/24, Local Fund	\$	<u><u>1,369,514.19</u></u>



**2023 Christmas Bonus Checks**

Becker, Panagiota	Board Member	\$	1,000
Brandhorst, Catherine E.	Board Member	\$	1,000
Gardner, Gayle A.	Board Member	\$	1,000
Gleason, Martha	Board Member	\$	1,000
LeBlanc, Gina M.	Board Member	\$	1,000
Flowers, Wayne	Attorney	\$	1,000
Allen, Jr., John F.	Mechanic	\$	1,000
Arber, Steven K	Mosquito Control Technician	\$	1,000
Aryaprema, Peduru H. K.	Biologist	\$	1,000
Blore, Kai T	Lab Manager	\$	1,000
Bruner, Ralph S.	A & P Mechanic	\$	1,000
Duett, Morgan P	Surveillance Technician	\$	1,000
Farooq, Muhammad	Mosquito Control Engineer	\$	1,000
Graham, Kyle	Mosquito Control Technician	\$	1,000
Hackney, Dazmond F	Mosquito Control Technician	\$	1,000
Hanna, Scott	C.F.O.	\$	1,000
Hendricks, Cathy M.	Mosquito Control Technician	\$	1,000
Iser, Jerry W	Mosquito Control Technician	\$	1,000
Keating, Heather L	Administrative Assistant	\$	1,000
Kuppe, Connor	Biological Technician	\$	1,000
McKinney, Aye A	Accountant	\$	1,000
Oliva, Dena L	Operation Supervisor	\$	1,000
Peper, Steven T	Molecular Biologist	\$	1,000
Qualls, Whitney A	Scientific Manager	\$	1,000
Smith, Dana A	Aviation Manager	\$	1,000
Smoleroff, Steven T	Field Biologist	\$	1,000
Stockley, Ricky J	IT Specialist	\$	1,000
Sypes, Olivia K	Biological Technician	\$	1,000
Usina, Holly M	Mosquito Control Technician	\$	1,000
Weaver, James H.	Business Manager	\$	1,000
Wohlforth, Jeremy J	Mosquito Control Technician	\$	1,000
Wynn, James L.	Senior Mechanic	\$	1,000
Xue, Rui-De	Director	\$	1,000
Zeszutko, Edward J	Biological Technician	\$	1,000
Blackwelder, Nicole	Seasonal Inspector Sprayer	\$	500
Cotter, Bill	Seasonal Lab Technician	\$	500
Daniels, Ken	Seasonal Inspector Sprayer	\$	500
Stokley, James	Seasonal Inspector Sprayer	\$	500
Vaughn, Phillip	Seasonal Inspector Sprayer	\$	500
Hirokawa, Tomomi	Education Specialist (3 months)	\$	250
Weir, Brandon	Aviation Mechanic (6 months)	\$	500
Total Regular		\$	36,500
<b>2023 Awards</b>			
Managers Choice:	Aye McKinney	\$100	
	Morgan Duett	\$100	
	Cathy Hendricks	\$100	
	Steven Smoleroff	\$100	
Outstanding Employee:	James Wynn	\$2,000	
Fifteen Years:	Rick Stockley	\$150	
Twenty Years:	Richard Weaver	\$200	
	Dr. Rui-De Xue	\$200	
Total Special Awards			\$2,950
<b>SUBTOTAL =</b>		<b>\$</b>	<b>39,450</b>
Plus: District's Portion FICA 7.65%		\$	3,018
<b>TOTAL TO BUDGET</b>		<b>\$</b>	<b>42,468</b>

**New Business**

**#1**

# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## 2023 MEMO

DISTRICT DIRECTOR

Dr. Rui-De Xue



BOARD OF COMMISSIONERS:

Gayle Gardner, Chairperson  
Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Scott Hanna

DATE: October 4, 2023

RE: Discussion and Approval of Bonus for 2023 Holidays

---

In 2023, AMCD Board of Commissioners, Attorney, and all employees have worked very hard to conduct the programs, especially dealing with the outbreaks of salt marsh mosquitoes and WNV/EEE. Also, AMCD received very good and positive reviewed/audited back by the Balmoral Group for special district accountability. The District received more than \$300,000 grant funds from the Federal and several private industries. These funds benefited the AMCD operation programs. In order to recognize, appreciate, and thank everybody who made the contribution to the AMCD programs in 2023, I would like to recommend the Board giving the bonus (attached list and the amount) for the holidays except for the manager choice award (\$100/each) from each department, one outstanding employee (\$2,000), and the appreciation of the years (1 at \$150 for 15 years and 2 at \$200/person for 20 years) of services. A total cost will be \$32,750.

Thank you for your support.

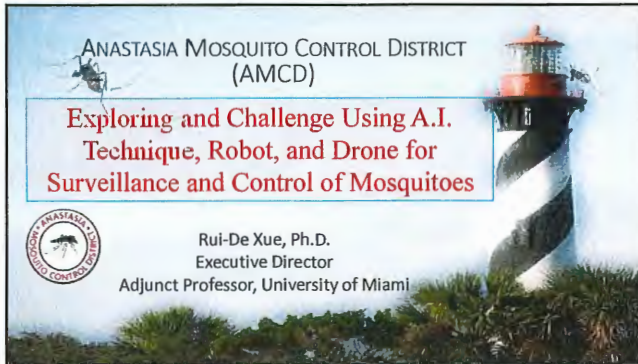


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Hackney, Dazmond F	Mosquito Control Technician	\$	1,000
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Weaver, James H.	Business Manager	\$	1,000
Wohlforth, Jeremy J	Mosquito Control Technician	\$	1,000
Wynn, James L.	Senior Mechanic	\$	1,000
Xue, Rui-De	Director	\$	1,000
Zeszutko, Edward J	Biological Technician	\$	1,000
Blackwelder, Nicole	Seasonal Inspector Sprayer	\$	500
Cotter, Bill	Seasonal Lab Technician	\$	500
Daniels, Ken	Seasonal Inspector Sprayer	\$	500
Stokley, James	Seasonal Inspector Sprayer	\$	500
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Total Regular		\$	36,500
<b>2023 Awards</b>			
Managers Choice:	Aye McKinney	\$	100
	Morgan Duett	\$	100
	Cathy Hendricks	\$	100
	Steven Smoleroff	\$	100
Outstanding Employee:	James Wynn	\$	2,000
Fifteen Years:	Rick Stockley	\$	150
Twenty Years:	Richard Weaver	\$	200
	Dr. Rui-De Xue	\$	200
Total Special Awards		\$	2,950
<b>SUBTOTAL =</b>		<b>\$</b>	<b>39,450</b>
Plus: District's Portion FICA 7.65%		\$	3,018
<b>TOTAL TO BUDGET</b>		<b>\$</b>	<b>42,468</b>

**New Business**

**#2**



**Terms: Artificial Intelligence (AI), Machine Learning, and Deep Learning**

**AI:** Simulation of human-like intelligence processes by machines, enabling them to perform tasks that typically require human intelligence.

**Machine Learning:** A subject of AI that involves the development of algorithms and statistic models that allows computers to improve their performance on a task through learning from data.

**Deep Learning:** A specialized form of machine learning that utilizes neural networks with multiple layers, enabling it to automatically learn in order representations of data.

**Distinguish Artificial Intelligence from Machine Learning, and Deep Learning**

**AI** is the broader concept of creating machine that can perform tasks intelligently, **Machine Learning** is a specific approach within AI where machines learn from data, and **Deep Learning** is a subject set of machine learning using neural networks with multiple layers for complexity pattern recognition



**Chat GPT 3.5 & 4.0  
Open AI (Clip & DALL-E)**

**Difference Between ChatGPT & Open AI**

**ChatGPT:** It is text only and good for writing, generating topics, Ppt, reports, publication. 3.5 version is free (Nov 2021). 4.0 is free for 3 months.

**Open AI model:**

1. **Clip:** It is a model for connecting vision and language, understanding images and content/text.
2. **DALL-E:** This is a model designed for generation images. Free for 3 months.

**AI-powered machines/tools for surveillance and control of mosquitoes**

**Surveillance System:** Trap design & replacement. Analysis data from different sources, such as weather, temperature, humidity, historic data, to predict and identify areas at high risks for breeding.

**Management:** Answer & write (ChatGPT), Open AI for Receptionist & Instructor. Help optimize the allocation of resources and enhance the overall mosquito control strategy, data driven decision making.

**Tools/Equipment:** Drone (unmanned air vehicle), Ground Sprayer (unmanned ground vehicle), and Robot.

## AI for Surveillance



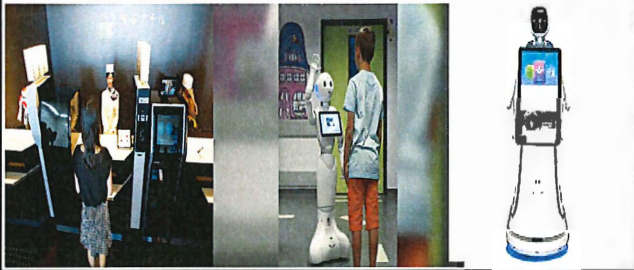
- **Automated image:** Recognition-analyze images/videos, Species ID, Count number, age and gender of mosquitoes.
- **Environmental data analysis.**
- **Data fusion:** Integrating various data sources, help making informed decisions.
- **Predictive modeling:** Based on historic data and current conditions.
- **Drone surveillance:** Equipped with AI-powered cameras capturing images and data.
- **Public awareness:** Analyze social media and other online platforms to detect conversations and reports.



## Marketed Robot Mosquito Trap for Surveillance



## Marketed Robots & Potential Receptionist for Our DVEC



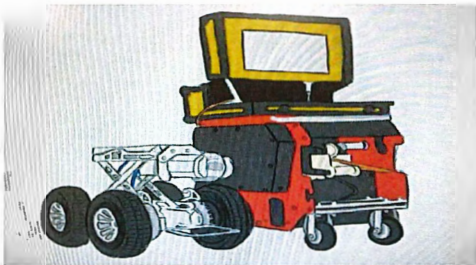
## Robot and Drone

**Robot:** A programmable machine capable of carrying out tasks autonomously or semi-autonomously. Designed to perform a wide range of physical and cognitive tasks, using sensors and actuators.

**Robotic sprayer:** Unmanned ground vehicle (UGV), Precision, Efficiency, Safety, Consistency, and Data collection. Increased productivity, reduced labor costs, and effective use of resource.

**Drone:** Unmanned aerial vehicle (UAV) is a type of aircraft that is operated without human pilot on board. Remotely control by a human operator or through programmed flight paths.

## Detection of Mosquito Larvae (Unmanned Ground Vehicle, Monitor, and Robot) powered by AI



## Potential Robotic Pipet for Sample and SIT (mass rearing)



SENECIO Robot for SIT Mosquito Sex Separation & Robots



AI-Powered Unmanned Ground Vehicle (UGV) to Spray Pesticides



AI-Powered Unmanned Ground Vehicle (UGV) to Spray Pesticides



Robot Sprayers for Agricultural Pesticides



AI Powered- UAV (Drone) to Spray Pesticides



### Advantages & Disadvantages

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>Automation and efficiency</li> <li>Data analysis and predictive analytics</li> <li>Personalization</li> <li>Improved decision-making</li> <li>24/7 availability &amp; autonomous vehicles</li> <li>Natural language processing</li> <li>Environmental impact</li> <li>Exploration and research</li> <li>Entertainment and creativity</li> <li>Economic growth</li> <li>Remote sensing &amp; Improved accessibility</li> </ul> | <ul style="list-style-type: none"> <li>• Bias and fairness</li> <li>• Job displacement</li> <li>• Privacy concerns &amp; security risks</li> <li>• Complexity and dependence</li> <li>• Lack of creativity and intuition</li> <li>• Ethical dilemmas</li> <li>• High initial cost</li> <li>• Unemployment and skill shifts</li> <li>• Data dependence</li> </ul> |
|--|--|

**New Business**

**#3**

# Anastasia Mosquito Control District of St. Johns County

120 EOC Drive, St. Augustine, Florida 32092

PH: (904) 471-3107 • Fax (904) 471-3189 • Web Address: [www.amcdsjc.org](http://www.amcdsjc.org)

## MEMO

### DISTRICT DIRECTOR

Dr. Rui-De Xue



### BOARD OF COMMISSIONERS:

*Gayle Gardner, Chairperson  
Trish Becker, Vice-Chairperson  
Gina LeBlanc, Secretary/Treasurer  
Catherine Brandhorst, Commissioner  
Martha Gleason, Commissioner*

TO: Board of Commissioners

FROM: Dr. Rui-De Xue, Director

CC: Heather Keating, Administrative Assistant

DATE: September 27, 2023

RE: Commissioner Becker to Speak on District Community Project

---

Commissioner Becker will speak about the District Community Project and possible guest.

# Reports



Director report (September 2023)

**Program Management: Customer & professional service and service request process:** AMCD answered 74 service requests. Dr. Qualls (Insects) & Dr. Xue (PLoS One, Frontier, & Insects) reviewed 4 manuscripts for different journals. Dr. Xue attended AMCA monthly Board zoom meetings. Mr. Weaver as the FMCA President-Elect collects & prepares for annual program and attended the FMCA Board zooming meeting. Dr. Qualls as the FMCA Scholarship Chair and Dodd Course committee member has prepared for related items. Dr. Peper served the Wing Beats as Director of Adv for soliciting adv. AMCD hosted a couple of visitors from university & Indian Rive MCD.

**Surveillance:** St. Johns county is still under mosquito-borne illness advisory due to one EEE case. Two EEE horses, 5 EEE chickens, 27 WNV sentinel chickens (18 positive in September) have been confirmed. BG sentinel traps with BG lures and dry ice for surveillance of mosquitoes and arbovirus are continued and collected 149 *Aedes aegypti*, 112 *Ae. albopictus*, and 101 *Culex nigripalpus*. Adult mosquitoes (754) were caught by CDC light traps baited with octenol. Even if population of mosquitoes was low, WNV infection rate was higher in September.

**Ground and aerial operation:** Positive larval dips (245) were founded from many sites and MC Technicians treated larvae for 114 times for 541 acres when they found. District did 7 times ground ULV to have treated 3,106 acres. Also, District did 9 times barrier spraying for 5 acres, and hand adulticided for 51 times. Aerial larviciding has been conducted for 2 times to treat 168 acres.

**Applied research:** A DACS collaboration grant with UF about honey bee impact has been started. The Clarke MC larval testing project at AMCD has been done. Lamplight for repellent and a company for a new larvicide project have been started. Flower attraction project with University of Washington have been done in St. Augustine. All other research projects have been continued. Three papers (2 for JFMCA & JAMCA) from AMCD have been submitted. Eight abstracts from AMCD for the FMCA meeting have been submitted by October 1.

**Education:** Ph.D. student continues his writing qualify exam. AMCD hosted 2 group tours from Universities, other mosquito control districts, industries, and citizens. Two new interns received orientation and training. Staff joined St. Johns Teacher's Academy meeting and UF/ Health/DOH's resource meeting about education and public relation with other local agencies. Three staff joined SOVE annual meeting, Charleston. Face book, twitter, and website have been updated at weekly.

**Business Management & Administration: Serve to the Board of Commissioners:** Staff prepared for September 14's Board meeting & 1<sup>st</sup> & final public hearing, three Board meeting minutes, proposed and final agenda, and assisted Board members for the attorney selection & health record agent.

**Budget and Auditor:** Staff followed the TRIP law and published the final public hearing for millage and budget, and submitted all documents after the Board approved the 2 resolutions. Also Staff submitted the DACS certified budget on time. The Balmoral Company audited AMCD and the final report was received by the end of September.

**Insurance:** The agent of record for health, life, and dental insurances have been renewed after the Board approval.

**Contract:** SIT building and education building interior project contract are still under progress. Two proposals for attorney and 2 proposals for health insurance agents were received. Board voted to redo the RFP for attorney at their Sep 14's meeting. The Board approved the Herb Willis as the health insurance record agent. Two trucks have been purchased.

**HR & Policy:** One UNF intern started his intern training at AMCD on September. A part time intern was terminated due to no showing up for several times. Dr. Qualls has been promoted as Assistant Director and effect from October 1.

**Meeting:**

Sep 1. Conversation with Mr. Flowers about Utility easement proposal.

Sep 6. 9:30am. Met New Mountain CEO about trap and other projects. 2pm. Met Mr. Flowers, Mr. Weaver, and 2 people from Dept of Utility about their proposal.

Sep 7. 10:30am. Met Red Machine Tech people. 11am. Met Chair Ms. Gardner about agenda.

Sep 8. 8:30am. Met Professor Jeff R. and his 2 graduate students about the trap study. Pm. Field check in SR 207 & 208 area.

Sep 11. AM. Field visiting 214 area for hot spots about EEE. 3pm. CDC/SECEVD intern projects and intern student interview.

Sep 12. 9:30am. Met with Fleet insurance agency about commercial package renewal and worker man comp. 11am. Attended Well Fargo Bank with Mr. Hanna about investment accounting.

Sep 13. 8:30am. Held meeting with University of Washington Dr. Jeff R. and his graduate students about collaboration projects. 3pm. Attended NACCHO zoom meeting.

Sep 14. 9am. Attended St. Johns C. C. about AI technology by zooming. 1pm. Attended AMCA committee chair meeting. 4:30pm. Met Commissioner Mrs. Gleason about agenda. 5pm. Attended Board regular meeting. 5:30pm. Attended 1<sup>st</sup> public hearing meeting.

Sep 15. Revised article about SIT for Wing Beats.

Sep 17. Drove to Charleston for SOVE Board meeting at 3pm.

Sep 18. Gave a presentation about ASVEMC update and meeting information. Attended SOVE annual meeting.

Sep 21. Visited Burfield County Mosquito Control Division after the SOVE meeting.

Sep 22. Reviewed manuscripts for Insects, PLoS one, and Frontier.

Sep 26. 8am. Tele-conversation with Mr. Flowers about utility proposal for contract.

Sep 27. Updated/revised AGO trap manuscript and submit it to JAMCA after withdrawing from JFMCA.

Sep 28. 7:30am. Attended Kiwanis Club meeting about homeless situation in St. Johns County. Noon, attended AMCA EC zooming meeting. 5:30pm. Attended the Board's final public hearing meeting.

Sep 29. 9am. Attended local resource meeting at DOH conference room. 2pm. Attended the ESA vector network zooming meeting.

# Treatment Summary

**From Date :** 09-01-2023

**To Date :** 09-30-2023

**Zone :** All

**Material :** All

**Task :** All

Printed on 2023-10-02 16:14:51 EST

Material	Amount	Area Treated	Application Rate	Times
Altosid WSP	4040 ea	12.52 acre	322.68 ea / acre	31 times
Altosid XRG	285 lb	47.5 acre	6 lb / acre	4 times
Altosid XRG Air	480 lb	48 acre	10 lb / acre	1 times
Aquabac XT	112 fl oz	7 acre	16 fl oz / acre	4 times
B.t.i. Briquets	307 ea	0.7 acre	435.54 ea / acre	3 times
Cocobear	268 fl oz	0.7 acre	384.02 fl oz / acre	4 times
Duet 50%	1984 fl oz	1263.69 acre	1.57 fl oz / acre	4 times
Mosquitomist Two	1216 fl oz	1842.42 acre	0.66 fl oz / acre	3 times
Natular DT	84 ea	0.01 acre	6666.67 ea / acre	1 times
Sustain MBG	175 lb	23.33 acre	7.5 lb / acre	9 times
Sustain MBG Air	1200 lb	120 acre	10 lb / acre	1 times
Talstar P	1.63 gal	4.83 acre	0.34 gal / acre	9 times
VectoBac 12AS	7190 fl oz	449.38 acre	16 fl oz / acre	58 times

# Task Time Summary

From Date : 09-01-2023

To Date : 09-30-2023

Zone : All

Employee Name : All

Printed on 2023-10-02 16:15:38 EST

Task Time Summary			
Task	Total Time	Total Timesheets	Total Time
Administrative	827:12 hrs	134	
Aerial Ground Crew	12:45 hrs	8	
Aerial Larvicide	04:40 hrs	2	
Aerial Maint	135:50 hrs	60	
Aerial Survey	27:30 hrs	15	
AM Briefing	29:43 hrs	92	
Assist	71:55 hrs	18	
Building & Grounds Work	390:20 hrs	178	
Chicken Program	164:57 hrs	71	
Computer Repair	129:45 hrs	15	
Daily Paperwork	154:57 hrs	213	
Field Experiment	128:30 hrs	37	
Fish Program	23:00 hrs	9	
Ground Adulticide	21:15 hrs	12	
Ground Larvicide	256:21 hrs	114	
Ground Site Inspection	716:17 hrs	434	
Hand Adulticide	34:52 hrs	51	
Holiday	390:00 hrs	39	
Insectary	384:00 hrs	63	
Inventory	64:25 hrs	25	
Lab Experiment	122:45 hrs	27	
Mechanics Time	245:00 hrs	41	
Meeting	152:45 hrs	61	
Molecular Lab Work	280:30 hrs	29	6025:45 hrs
Mosquito Trap BG	51:00 hrs	10	
Mosquito Trap CDC Oc	122:17 hrs	143	
Mosquito Trap Gravid	02:00 hrs	1	
Mosquito Trap ID	40:45 hrs	19	
Mosquito Trap OV	28:00 hrs	5	
Mosquito Traps Misc	09:15 hrs	4	
Produce Papers & Programs	145:15 hrs	31	
Project Research	43:00 hrs	10	
Rain Gauges	02:08 hrs	15	
Resupplying Trucks	57:21 hrs	106	
Source Reduction (tires)	04:15 hrs	3	
Supervisory	28:00 hrs	11	
Training Classroom	86:00 hrs	27	
Training Field	144:00 hrs	18	
Travel	47:30 hrs	7	
Trim Trails	01:40 hrs	1	
Vehicle Maintenance	58:50 hrs	41	
Annual Leave	124:45 hrs	22	
Leave Without Pay	93:00 hrs	13	
Sick Leave	127:30 hrs	22	
Sick Personal Leave	40:00 hrs	5	

# Attachments



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# ANASTASIA MOSQUITO CONTROL DISTRICT REVIEW FINAL REPORT

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September 2023

Prepared for

**The Florida Legislature**

Prepared by

**The Balmoral Group**

**165 Lincoln Avenue**

**Winter Park, FL 32789**

## Executive Summary

The Anastasia Mosquito Control District of St. Johns County (Anastasia MCD) is an independent special district that serves the entirety of St. Johns County, Florida, totaling 609 square miles. Anastasia MCD is among the larger MCDs in the state, serving a population of about 306,841 residents in Fiscal Year (FY) 2021-22 (October 1, 2021 through September 30, 2022).

St. Johns County boasts thousands of acres of federally and state-owned environmentally protected areas, which produce mosquitoes prolifically and have associated restrictions on Anastasia MCD operations. About 152,700 households paid ad valorem taxes to support Anastasia MCD operations in FY 2022-23. For this same year, the taxable value of real property parcels was about \$39.5 billion, plus \$1.4 billion in taxable value for about 9,600 tangible personal property accounts.

Due to geographic scale, coordination efforts with protected areas, and high tourist activity, mosquito control is very important to the quality of life for residents and visitors in Anastasia MCD. The district conducts comprehensive Integrated Pest Management methods, and operations largely focus on the prevention of mosquito infestation via surveillance, monitoring, larvicide, and targeted adulticide, along with applied research to improve the effectiveness and efficiency of Anastasia MCD's services. In recent years, Anastasia MCD has invested in helicopters for aerial spraying, along with mosquito traps to monitor mosquito populations and sentinel chickens to surveil disease. Anastasia MCD has made investments that provide efficiencies, such as its Sterile Insect Technology facility which will provide biological control of mosquitoes and reduce the need for chemical costs.

Anastasia MCD routinely works with industry, state and federal government, international non-governmental organizations, and the World Health Organization for research and product development and is an industry leader in applied research. Anastasia MCD is the only district in Florida with a dedicated educational center. The district places a heavy emphasis on research and education through its many collaborations with national and international researchers and extensive educational and training programs locally.

The Balmoral Group worked in consultation with a mosquito control expert in the course of this review and found that Anastasia MCD delivers a wide variety of mosquito control services effectively and efficiently within the scope of the MCD's charter and applicable laws and regulations. The district is managing its resources in an efficient and effective manner to achieve its goals and objectives. Anastasia MCD has engaged in a strategic planning process and has several clearly defined and measurable goals and objectives that adequately address the district's statutory purpose, provide sufficient direction to the district, and are achievable within budget; the district tracks

### SCOPE

Section 189.0695, *Florida Statutes*, requires the conduct of performance reviews of Independent Mosquito Control Districts. The Balmoral Group was selected by the Office of Program Policy Analysis and Government Accountability to perform the review, which evaluates the district's programs, activities, and functions, including:

- evaluating the district board's primary function and governance;
- assessing service delivery and comparing similar services provided by municipal or county governments located within the district's boundaries;
- describing district purpose, goals, objectives, performance measures, and performance standards and evaluating the extent to which they are achieved;
- analyzing resources, revenues, and costs of programs and activities; and
- providing recommendations for statutory or budgetary changes to improve the special district's program operations, reduce costs, or reduce duplication.

its performance and has largely been meeting its performance standards. The district could establish additional performance metrics.

Based on its review, The Balmoral Group presents the following recommendations for the improvement of mosquito control services in the Anastasia MCD:

- The Legislature could consider amending section 403.709(1), *Florida Statutes*, to require a portion of the funds currently administered by DEP for solid waste activities to be allocated to waste tire abatement activities by MCDs.
- The district could formalize additional performance measures and standards that would allow the district to monitor and track progress toward all its goals and objectives.
- The Legislature could consider directing the Florida Coordinating Council on Mosquito Control to form a subcommittee consisting of mosquito professionals and researchers from around the state to develop model goals, objectives, and performance measures and standards to assist this state's MCDs with performance monitoring.



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# 1. Background

## District Description

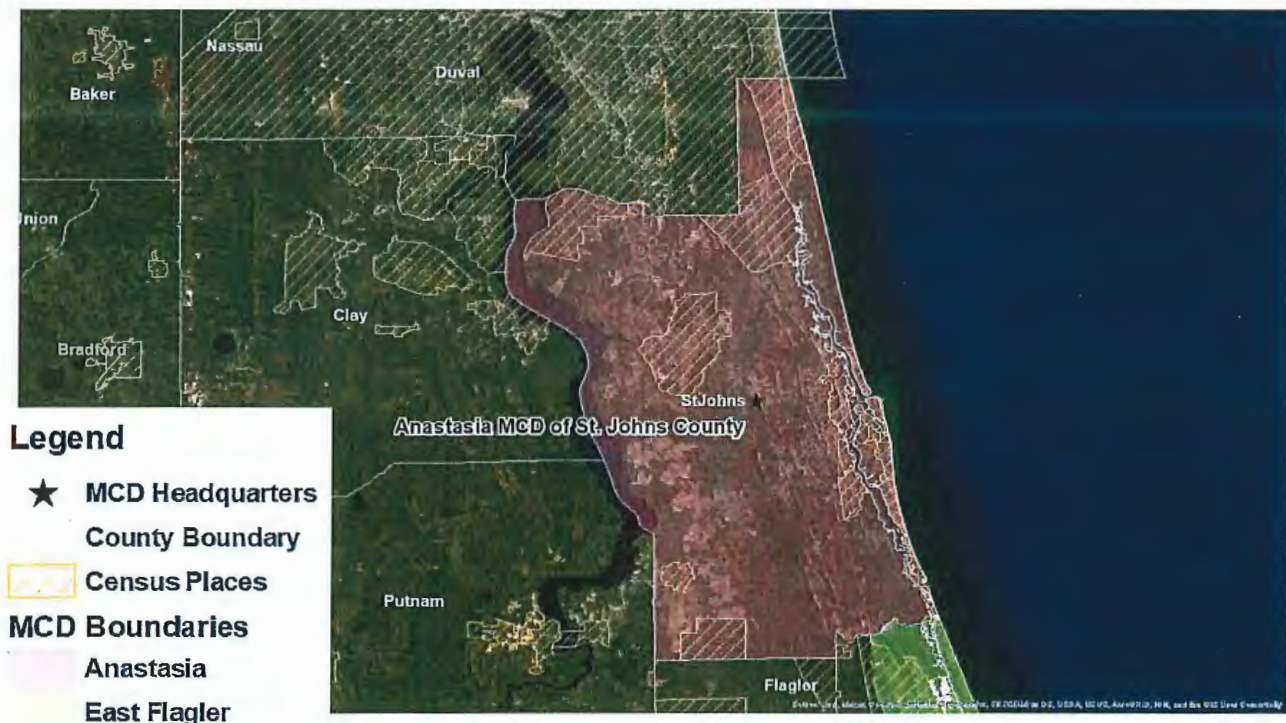
### *District Purpose*

The purpose of the Anastasia Mosquito Control District of St. Johns County (Anastasia MCD) is to reduce the threat caused by both nuisance and disease-vectoring mosquitoes throughout the incorporated and unincorporated areas of St. Johns County, Florida. District representatives have reported that Anastasia MCD has worked since inception to provide a safe and fiscally responsible public health service to all residents of the district utilizing proven Integrated Pest Management methods that are efficient, effective, and environmentally sound in order to minimize the impact of both nuisance and disease-vectoring mosquitoes on the health and welfare of the community.

### *Service Area*

Anastasia MCD serves the entirety of St. Johns County, Florida, totaling 609 square miles.<sup>1</sup> Anastasia MCD's headquarters is located at 120 EOC Drive, St. Augustine, Florida 32092. **Figure 1** is a map of the Anastasia MCD boundary, with the county boundary and the MCD headquarters marked.

**Figure 1. Anastasia MCD Map**



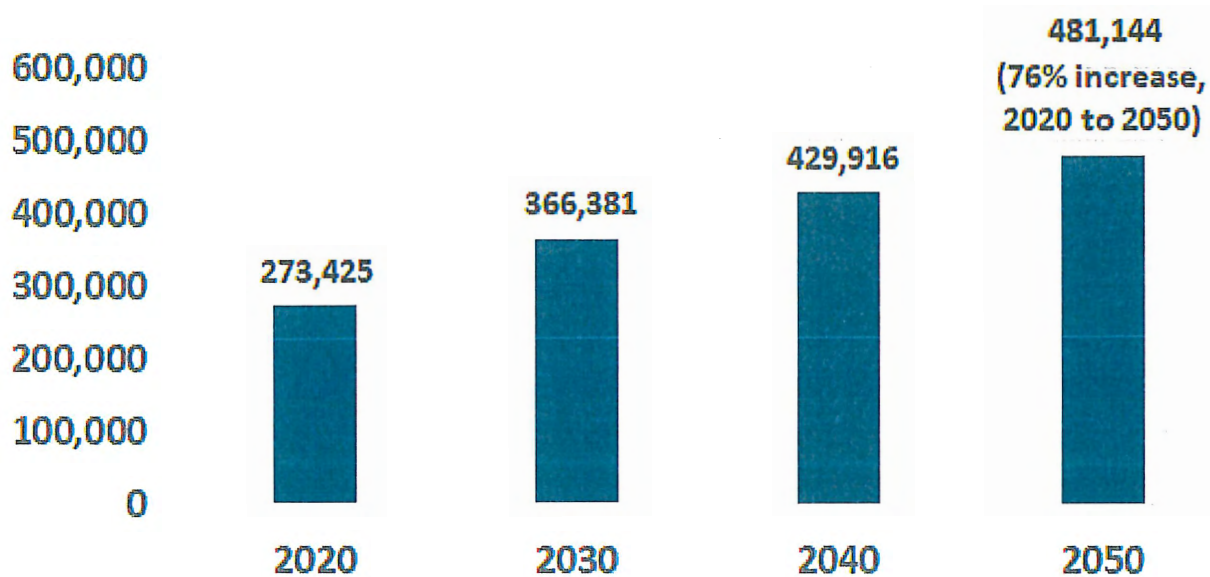
Source: The Balmoral Group (TBG) Work Product, ESRI, US Census, MCDs

<sup>1</sup> Anastasia MCD's service area was expanded in 2003 from 17 square miles to address the entirety of St. Johns County.

## Population

St. Johns County's population was estimated at 306,841 persons in 2022 according to the United States (U.S.) Census.<sup>2</sup> The Florida Legislature's Office of Economic and Demographic Research (EDR) projects St. Johns County's population to increase by 76% through 2050 to 481,144 residents compared to a 2020 baseline.<sup>3</sup> Figure 2 shows St. Johns County's projected population estimates calculated by EDR.

Figure 2. St. Johns County Population Projection



Source: TBG Work Product, EDR.

## District Characteristics

Anastasia MCD comprises all of St. John's County, which is located on the northeast coast of Florida, with approximately 42 miles of beaches along the Atlantic coast. Adjacent counties include Duval to the north, Flagler to the south, Putnam to the southwest, and Clay to the west. The average annual temperature is 71 degrees Fahrenheit and total rainfall is about 50 inches for the year. Anastasia Island, the namesake of the Anastasia MCD, is a large barrier island which supports a high population of seasonal tourists. The County has two incorporated cities: St. Augustine (where the district's headquarters are located) and St. Augustine Beach. Founded in 1565, St. Augustine is the oldest continuously inhabited European-established settlement in the United States, and consistently brings in significant numbers of tourists to the area.

Most of the population of St. John's County is concentrated in its coastal region, with the majority of its land mass being rural land in the western regions. St. John's County is also bordered to the west by the St. John's River, separating it from Clay and Putnam Counties. The population has risen from about 30,000 in 1970 to just over 300,000 in 2022, a tenfold increase. Most of these residents live on or near Anastasia Island, with the challenge of controlling mosquito populations around the island with federal and state protections in place for natural lands

<sup>2</sup> Population Estimates, July 1, 2022, retrieved from [U.S. Census Bureau QuickFacts: United States](#).

<sup>3</sup> Based on 2021 Estimates, Population: 1970-2050, County projections retrieved from [Population and Demographic Data - Florida Products \(state.fl.us\)](#).

posing a significant roadblock to the operations of Anastasia MCD. Trends of rapid urban and residential development in the eastern part of the county are predicted to continue, making the need to control mosquito populations and aquatic larval habitats important to the quality of life in the county. In addition, there are several state parks and aquatic preserves throughout the county, including the Guana Tolomato Matanzas National Estuarine Research Reserve, which is jointly operated by the Florida Department of Environmental Protection (DEP) and the National Oceanic and Atmospheric Administration and covers over 76,000 acres of conservation lands that include coastal and estuarine ecosystems and salt marshes.

Meteorology is the primary driving force for producing mosquitoes with heavy rainfall events creating standing pools of water that serve as breeding grounds for mosquito species capable of transmitting several arboviruses. Changing water levels through tidal events can also produce such pools. Humans contribute to the problem by allowing water to stand in waste containers, garden pots, tires, and other vessels. The characteristics of the large natural aquatic and estuarine areas of the district, combined with continued rapid development in the coastal areas of the district and the meteorological conditions described above, create an environment conducive to extensive mosquito habitats that require constant mosquito control efforts. The services needed to control mosquitoes include routine surveillance of mosquito-producing habitats and numbers of adult mosquitoes, source reduction, aerial and/or ground treatments using pesticides to treat areas known to have large larval or adult mosquito populations, and regular testing for disease transmission in animals. Other services are described in greater detail later in the report.

### Real Property Data

Anastasia MCD receives ad valorem taxes to fund district operations. The total taxable value of properties within Anastasia MCD was almost \$41 billion in the most recent fiscal year under a millage rate of 0.1900 (Table 1). Real property parcels subject to district millage exceeded 152,000 parcels in FY 2022-23, an increase of 11% since FY 2019-20 (Table 2). Taxable value of real property parcels increased 44% in FY 2022-23 compared to FY 2019-20, following changes in property values.

**Table 1. Millage Rates and Total Taxable Value of Properties Subject to Anastasia MCD Millage**

<i>Anastasia MCD</i>	<i>FY 2019-20</i>	<i>FY 2020-21</i>	<i>FY 2021-22</i>	<i>FY 2022-23</i>
<b>Millage Rate</b>	0.2100	0.2050	0.2000	0.1900
<b>Taxable Value of Parcels (\$Mil.)</b>	\$27,524	\$30,587	\$33,493	\$39,527
<b>Taxable Value of Accounts (\$Mil.)</b>	\$1,046	\$1,178	\$1,266	\$1,418
<b>Taxable Value of Centrally Assessed Property (\$Mil.)<sup>1</sup></b>	\$38	\$37	\$38	\$41
<b>Total Taxable Value (\$Mil.)</b>	<b>\$28,608</b>	<b>\$31,802</b>	<b>\$34,798</b>	<b>\$40,987</b>

Source: Florida Department of Revenue (FDOR).

<sup>1</sup> Centrally assessed property includes railroad and private airline company assessments as defined in Rule 12D-2.011, F.A.C.

Table 2. Real Property Parcels Subject to Anastasia MCD Millage

Anastasia MCD	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
<b>Just Value of Parcels (\$Mil.)</b>	\$38,331	\$42,722	\$46,920	\$64,228
<b>Real Property Parcels Subject to Millage</b>	138,126	142,296	147,342	152,760
<b>Taxable Value of Parcels (\$Mil.)</b>	\$27,524	\$30,587	\$33,493	\$39,527

Source: FDOR.

### Tangible Property Data

In addition to real property, 9,599 tangible personal property accounts were subject to Anastasia MCD millage in FY 2022-23, slightly up since FY 2019-20 (Table 3). The just value of tangible personal property accounts increased 28% in FY 2022-23 compared to FY 2019-20, while the taxable value of tangible property accounts increased 36% over the same period.

Table 3. Tangible Personal Property Accounts Subject to Anastasia MCD Millage

Anastasia MCD	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23
<b>Just Value of Accounts (\$Mil.)</b>	\$1,400	\$1,544	\$1,634	\$1,790
<b>Tangible Personal Property Accounts Subject to Millage</b>	9,568	9,569	9,559	9,599
<b>Taxable Value of Accounts (\$Mil.)</b>	\$1,046	\$1,178	\$1,266	\$1,418

Source: FDOR.

### History and Composition

Anastasia MCD was established in 1948 pursuant to Chapter 390, *Laws of Florida* (1941), and continued by the Florida Legislature in Chapter 99-449, *Laws of Florida*, which is the most recent legislative enactment governing the district. The board originally consisted of three members but was expanded to five members in 1961 pursuant to Chapter 61-2745, *Laws of Florida* (1961). The board currently has no vacancies. In 2003, the boundaries of the Anastasia MCD were expanded to include all of St. Johns County.

Anastasia MCD is also subject to Chapter 189, *Florida Statutes*, given its status as an independent special district; Chapter 388, *Florida Statutes*, setting forth the requirements for creating and operating MCDs in this state; and Chapter 5E-13, *Florida Administrative Code*, setting forth rules adopted by the Department of Agriculture and Consumer Services (DACs) for mosquito control program administration.

Members of the board of commissioners are required to be registered electors residing within the district. Chapter 99-449, s. 6, *Laws of Florida*, states "District powers. -- The provisions of chapter 388, Florida Statutes (1997), entitled 'Mosquito Control,' . . . shall govern the functions of the Anastasia Mosquito Control District of St. Johns County, except where the same is inconsistent with the provisions of this act." The board's duties are not further addressed in the chapter law and the district reported that the board members' duties do not expand beyond those specified in Chapter 388, *Florida Statutes*.

Section 388.151, *Florida Statutes*, requires the board of commissioners to hold regular monthly meetings. The board met six times during the seven months between October 1, 2022 and April 30, 2023. Anastasia MCD staff reported that the meeting in November 2022 was canceled due to the annual Florida Mosquito Control Association meeting occurring at that time. In the current and past three fiscal years, the board has not held a

November meeting, and the board did not meet in April 2020 due to COVID-19 concerns. **Table 4** summarizes meeting counts by fiscal year, including special meetings, which are public budget hearings.

**Table 4. Anastasia MCD Commissioner Meeting Counts**

Commissioner Meetings	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
Monthly Meetings	10	11	11	6
Special Meetings	2	2	2	0

Source: TBG Work Product, MCD.

<sup>1</sup> 2023 YTD through April.

The board’s meetings are open to the public and noticed and conducted in accordance with s. 189.015, *Florida Statutes*. Each board member serves as the chair of one of five committees (Financial and Audit, Operations, Education, Applied Research, and Planning Committees), and each of these committees typically holds at least two to three meetings during the calendar year.

## Intergovernmental Interactions

Anastasia MCD interacts with state and federal entities through the district’s applied research and education program. In FY 2020-21, Anastasia MCD reported in its financial statements \$781,457 in grants from the DEP for research. It has also received grants from agencies such as the U.S. Department of Agriculture (USDA), the Department of Defense (DOD), the Center for Disease Control and Prevention (CDC), Florida Department of Health (DOH) and DACS. Per Anastasia MCD staff, collaboration with these agencies is for training and applied research. The district also collaborates with the Navy Center for Excellence in Entomology for training and applied research, such as equipment demonstration and tick population surveillance. The district also coordinates with DOH for public education and FEMA for hurricane reimbursement. In addition, Anastasia MCD has a recognized laboratory per the U.S. Environmental Protection Agency (EPA) and CDC requirements and is recognized by the U.S. EPA for Good Laboratory Practices for evaluation of public health insecticides. It is uncommon among other MCDs to have an U.S. EPA-certified laboratory.

Anastasia MCD provides emergency assistance to county fire rescue programs using the district’s aerial equipment and facilities, and cooperates with the St. John’s County Health Department to evaluate suspected human cases of mosquito-borne diseases.

Anastasia MCD’s boundaries are located in close proximity to Guana Tolomato Matanzas National Estuarine Research Reserve, Matanzas State Forest, and Anastasia State Park, each of which have their own regulations and policies regarding mosquito control treatments, which necessitates coordination between the district and the state and federal entities that oversee these natural areas in order to conduct mosquito control activities there. This process requires district staff time to conduct coordination and communication with the federal entities managing the reserve, DACS, and DEP regarding any treatments for these lands, which can be time-consuming.

Anastasia MCD also partners with the University of Florida, the University of Miami, the University of North Florida, and other academic institutions (both nationally and internationally) for research evaluating the efficacy of existing and new mosquito control methods that may reduce operational costs. For example, researchers with the district have collaborated with scientists at the University of Science, Techniques, and Technology of Bamako, Mali to conduct research on natural repellents against vector mosquitoes. The district hosted 12 visitors from the



Pan African Mosquito Control Association to discuss possible collaborations and training opportunities. District researchers are regularly invited to speak at international conferences and events such as the International Congress of Entomology, International Congress of Mosquito Biology and Control, and vector ecology. The district participates in a collaborative effort with the University of Florida and DEP on saltmarsh management at Fish Island and works with the University of North Florida’s College of Public Health to provide training for students and instruction for the Department of Biology.

## Resources for Fiscal Year 2021-22

The published FY 2021-22 millage rate established by Anastasia MCD was 0.2000. The district received \$7.2 million in revenues and spent \$8.07 million in FY 2021-22. Expenditures were higher than revenues due to the construction of the education building and Sterile Insect Technique building. Additionally, Anastasia MCD had \$2.5 million in fund reserves for the fiscal year. Anastasia MCD had 41 paid staff (five commissioners, 26 full-time, four grant-contracted, four part-time, and two contracted) and owned or leased 48 vehicles, numerous equipment, and one facility with 10 buildings and three outdoor enclosures (Table 5).

**Table 5. Anastasia MCD Resources for FY 2021-22**

Resource Item	FY 2021-22 Amount
Millage Rate	0.2000
Revenues	\$7.21 million
Expenditures	\$8.07million
Number of Paid Staff	41
Vehicles	3 helicopters, 2 boats, 35 trucks, 10 utility vehicles
Equipment	Field equipment: 333 items
	Lab equipment: 68 items
	Office equipment: 115 items
	Surveillance equipment: 151 traps, 9 coops, 54 chickens
Facilities	1 facility with 10 buildings and 3 outdoor enclosures

Source: TBG Work Product, FDOR, Anastasia MCD.

## 2. Findings

### Service Delivery

**Anastasia MCD delivers a wide variety of mosquito control services effectively and efficiently within the scope of the MCD’s charter and applicable laws and regulations.**

To assess the delivery of services in the district, The Balmoral Group (TBG) requested information on the geographic characteristics of the district; other local governments to which the district provides services or with which it coordinates efforts; the services provided by the district; similar services provided by other entities; district studies or evaluations of alternative service delivery methods including consolidation of services with other government entities; unique contributions from the district relative to the county or municipalities; local stakeholder perceptions of the relative value of the district’s services. In addition, TBG requested information

from representatives of the Board of County Commissioners, local health department, and local parks and recreation department on their perceptions of the district's service delivery and efficiency.

## Overview of Services

**Most mosquito control programs use an Integrated Pest Management (IPM) approach to control mosquito populations, which targets the different stages of a mosquito's life cycle with various prevention and control measures.** IPM addresses eight areas. Surveillance of mosquito populations is an essential component of all IPM programs with chemical treatments based on the surveillance findings. IPM can also include source reduction (e.g., container disposal, water/impoundment management), larviciding and adulticiding (using ground and/or aerial treatments), biological and alternative control, and disease surveillance. Research and education are also important components of IPM programs. See attachment titled, "Integrated Pest Management" for more information. Anastasia MCD conducts activities in each of the eight areas of IPM.

The district's **mosquito surveillance** activities include ground and aerial surveillance to determine areas within the district that warrant treatment due to larval and mosquito populations exceeding established thresholds. Surveillance methods include conducting weekly mosquito trap collection and analysis of the number and species of mosquitoes collected through the surveillance methods used. The Anastasia MCD sets traps on Mondays and collects the traps after 24 hours in the field. If the number of mosquitoes in the trap meets a certain threshold, treatment is initiated in the area. Monitoring the general population and types of mosquitoes in the area helps direct resources and appropriate treatment options on an ongoing basis. In addition, the district conducts daily larval surveys and determines larval counts in flooded areas as needed. In addition, larval mosquito populations are monitored at known and reported sites. Depending on the size of the treatment area and location in the county, field inspectors may employ backpack sprayers on foot or by truck, or request the aerial department treat the area via helicopter. The adult mosquito population is monitored by 41 CDC light traps baited with octenol. From April to November 2022, a total of 14,156 mosquitoes, 28 species were collected. Twelve Biogents (BG) Sentinel traps baited with BG Lure and CO<sub>2</sub> were used for *Aedes albopictus* and *Aedes aegypti* surveillance for a total of 7,506 collected from January to December 2022. A total of 49,022 mosquitoes from 32 species were collected with BG trapping. A total of 63,178 mosquitoes were trapped by both methods.

The district conducts **disease surveillance** by obtaining blood samples from sentinel chickens to conduct in-house testing initially and then sending them to the DOH laboratory in Tampa where they are tested for confirmation of antibodies to certain arboviruses. If a chicken has antibodies against one of the viruses, the district knows that virus is circulating in the local mosquito population and that treatment is needed to reduce the number of mosquitoes. The district also conducts regular weekly mosquito pool testing where district staff will check stagnant bodies of water for mosquito larva throughout the year.

**Source reduction** activities include routine collection of waste tires abandoned around the county as they are a prime habitat for several mosquito species. Currently, local landfill fees must be paid for waste tires picked up by Anastasia MCD. District staff also empties containers in and near residential yards. District staff reported that the district collected 799 tires on average annually in the current and prior three fiscal years and spends on average approximately \$2,000 per year on waste tire collection and disposal. In addition, the district reported that, due to labor and tire processing needs, the district currently limits the number of tires it collects from residential properties to ten tires per property and that the district has not sought or received any additional funds to help support tire collection and disposal efforts nor is it exempt from local landfill fees. The district is currently incurring



costs and inefficiencies in managing waste tire collection and disposal, which is an important source reduction activity.

The district conducts **larviciding** using ground equipment and helicopter platforms to reach coastal marshes and rural inland areas to apply granular and liquid material targeting mosquito larvae.

**Adulticiding** activities include ground spraying of ultra-low volume (ULV) insecticide as well as aerial applications. Nighttime aerial adulticide activities using helicopter platforms are conducted to deliver ULV sprays during the hours when adult mosquitoes are most active. Aerial spraying tends to be the most effective treatment method where trucks cannot easily access or where the spray may not reach mosquito populations. However, truck or backpack spraying is most often used. Typical sprayings will result in reductions of mosquito numbers in traps.

**Biological and alternative control** methods are also employed. The district provides the public with Gambusia fish that eat mosquito larvae for use in retention ponds and ditches. In addition, the district implements the Sterile Insect Technique, which is the deployment of male insects sterilized via radiation treatment to prevent viable offspring. After mating, the female insects' eggs do not hatch.

District staff conduct numerous ongoing research activities and collaborate with a number of different local, state, national, and international entities on **mosquito control research**. As described in the "Intergovernmental Interactions" section above, the district engages in collaborative activities with universities in Florida and around the world and conducts applied research on mosquito control techniques and technologies. For example, the district is currently conducting a research project to evaluate a new larvicide and another project that investigates the influence of water quality on the distribution of a particular species of mosquito, (*Aedes aegypti*) to better understand the factors that influence its distribution. The district conducts research in a number of different areas to develop new methods and technologies to improve mosquito control efficiency and effectiveness, including mosquito behavioral responses to various treatment approaches; evaluation of new control methods, tools and equipment; and evaluation of surveillance methods and insecticide resistance. District staff reported that the collaborations with international researchers have benefited their disease surveillance and mosquito control efforts through new ideas, grants, technology, tools, techniques, and equipment that the international mosquito control professionals have brought to the district.

The district conducts a number of **educational, training, and outreach activities** related to mosquito control. The district educates and informs the public about mosquito control through coordination with the St. Johns County School Board for school-based education programs, on-site tours and field trips, science fair project assistance, community service hours, and paid and unpaid internships for high school students. In addition, Anastasia MCD coordinates education for the public through outreach programs and presentations to local civic groups and tours of district headquarters. The district provides annual mandatory training for its full-time employees and new hires and partners with various local educational institutions to provide internship training to high school and university students. In addition, the district has organized the Annual Arbovirus Surveillance and Mosquito Control Workshop since 2004, which attracts over 200 participants from Florida and other states and countries and includes presentations on research and findings for new and innovative mosquito control technologies. This workshop also provides 20 continuing education credits for district employees as well as other professional workshop participants who hold public health pest control licenses.

Anastasia MCD recently constructed the Disease Vector Education Center, which is dedicated to mosquito control education and training activities. The education center is the only center of its size and scope among MCDs in this

state. The center is designed to provide hands-on training about surveillance, prevention, and control of mosquitoes and mosquito-borne diseases for the general public, mosquito control professionals, and students of all ages and educational levels. District staff report that the center will provide training to young professionals working in or interested in mosquito control and will provide education to the general public on mosquito prevention techniques including mosquito biology and behaviors and control of vector-borne diseases. The district reports that it plans to continue to provide the types of training symposia and workshops at the education center that it has historically hosted which have attracted state, national, and international participants for many years.

The district constructed the Disease Vector Education Center at a total cost of \$3.1 million as of September 30, 2022. The district held a building dedication ceremony on December 8, 2022, but has not opened the center to the public yet (at the time of this writing). As of June 2023, district staff reported that approximately 60% of the educational displays inside the center are complete and they expect the center to be ready to open to the public by December 2023. The center has been open by appointment only since October 2022, and since that time, district representatives report that tours of the facility have been provided to over 700 people. TBG requested information on any cost-benefit analyses that were conducted prior to the construction of the center, and district staff provided general information that cited costs from other studies that estimated the economic cost of adult illness due to West Nile virus or dengue fever to be approximately \$24,000 per person due to time lost from work and medical care costs.

The district indicates that the center is intended to serve as a source of revenue in the future but will remain available for school groups at no cost. Revenues will continue to be generated through fees for the annual workshop that the district hosts, which district staff report has historically generated from \$8,000 to \$10,000 annually in profits after accounting for expenses for district supplies, materials, and other costs. District staff reported that the anticipated costs to run the center will be approximately \$70,000 per year, which includes one part-time receptionist and maintenance fees. The district anticipates that these costs will be covered through a combination of entry fees, workshop registration fees, donations, volunteers, and grants.

A summary of the eight areas of IPM in which the district conducts activities is set forth in (Table 6).

**Table 6. Anastasia MCD Services Overview**

<b>Integrated Pest Management Service</b>	<b>Anastasia MCD Services Provided</b>
<b>Mosquito Surveillance</b>	Weekly ground and aerial surveillance using trap collection and analysis
<b>Source Reduction</b>	Routine waste tire collection and disposal at local landfills
<b>Larviciding</b>	Application of larvicides in coastal marsh areas from the ground and using helicopters
<b>Adulticiding</b>	Nighttime delivery of ultra-low volume (ULV) insecticide with trucks and aerial ULV adulticiding using helicopters
<b>Biological and Alternative Control</b>	Use of the Sterile Insect Technique and distribution of mosquito fish
<b>Disease Surveillance</b>	Regular blood sample collection from sentinel chickens; in-house mosquito pool testing; and submittal of samples to the state laboratory in Tampa for confirmation of arbovirus
<b>Mosquito Control Research</b>	Ongoing research efforts to identify new methods and technologies to improve treatment efficiency
<b>Outreach and Education</b>	Numerous education programs and outreach efforts coordinated with the county; a newly constructed education center; ongoing employee training

Source: TBG Work Product, Anastasia MCD.



## ***Analysis of Delivery of Services***

**Anastasia MCD delivers several mosquito control services across all main areas of IPM that are within the scope of its charter and purposes outlined in applicable laws and regulations.** Anastasia MCD provides services in all eight areas of IPM as described above, and all district services are directed toward the abatement and control of mosquitoes. No services were noted that fall outside the district’s charter or applicable laws and regulations. As described above, Anastasia MCD covers a unique service area that includes rapidly developing residential and commercial areas adjacent to extensive aquatic natural areas capable of producing mosquitoes. Anastasia MCD conducts source control, including removal of containers such as tires that can create larval habitat. Tires create problematic mosquito-producing habitats that are difficult to manage through routine chemical applications but can be managed through proper disposal. In Florida, DEP regulates the disposal of waste tires by creating requirements for the collection and disposal of waste tires at solid waste management facilities and waste tire processing facilities across the state.<sup>4</sup> These facilities typically charge fees for the disposal of waste tires, which most MCDs are required to pay if they choose to collect and dispose of waste tires. These facilities may not be able to waive the fees they charge due to bond requirements for their facilities. Anastasia MCD budgeted \$5,000 in its FY 2022-23 DACS budget for waste tire disposal activities. While the extent to which waste tires are collected in the district is currently unknown, Anastasia MCD could benefit from additional sources of funding to help incentivize continued collection of waste tires in the county.

## ***Comparison to Other Services***

**Anastasia MCD operations compare favorably to other publicly provided services; similar services are not provided by municipalities within the district or St. Johns County.** TBG interviewed staff and reviewed documents available online to establish if services could be or are redundant to or overlapping with county and municipal government services. Anastasia MCD coordinates with and trains staff of other MCDs as well as directors of county-run programs. According to several professional organizations and agencies, the district is considered a leader in the industry, with an international reputation for training, education, and research contributions. For example, Anastasia MCD has been recognized nationally for its educational offerings as the MCD is a host for mosquito control training and certification programs for organizations like the American Mosquito Control Association, National Association of County and City Health Officials, CDC Southeastern Center for Excellence in Vector-borne Disease, Entomological Society of America, and the CDC-funded Public Health Entomology for All program. Anastasia MCD operations are fairly sophisticated, and other local governments are likely not equipped to deliver the services that the district oversees and administers. TBG did not identify other entities in the county that provide similar services.

The mosquito control expert retained by TBG for this review did not identify any alternative methods for providing the district’s services that would reduce the district’s costs or improve the district’s performance.

TBG requested information from representatives of the Board of County Commissioners, local health department, and local parks and recreation department on their perceptions of the district’s service delivery and efficiency but did not receive any stakeholder responses after multiple contacts.

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<sup>4</sup> Sections [403.717](#) and [403.718](#), F.S. and Ch. 62-711, F.A.C.

## ***Considerations for Consolidations***

**Consolidation of operations is not recommended for Anastasia MCD based on the findings of this review.** Anastasia MCD operates throughout the entirety of St. Johns County and no other comparable service has been identified for consolidation.

## **Resource Management**

**Anastasia MCD is managing its resources in an efficient and effective manner to achieve its goals and objectives.**

To assess the district's resource management, TBG analyzed information on revenue sources, revenue and expenditure trends and their possible causes; analyzed staffing trends and their possible causes; requested data on services delivered by district staff vs third-party contractors for the last three fiscal years; analyzed equipment inventory and capital investment trends; reviewed the activities the district conducts to manage costs and to plan for its personnel; requested but did not receive information on resident feedback survey data related to finances and spending by the district; reviewed audits; and interviewed district staff and board members.

## ***Current and Historic Revenues and Expenditures***

**Revenues and expenditures have steadily increased during the review period and revenues exceeded expenditures in two of the past three full fiscal years.** The district's funding is primarily comprised of ad valorem taxes but the district also receives funds from other sources including grants, interest earnings, rents and royalties, sales of equipment and other assets, and miscellaneous revenues including proceeds from the district's Annual Arbovirus Surveillance and Mosquito Control Workshop. The St. Johns County Property Appraiser, with approval from the Florida Department of Revenue (FDOR), certifies the county's tax roll each year, and the county collects the monies for the district. Millage rates are set each year by the district's board of commissioners.

To review current and historic revenues and expenditures of the Anastasia MCD, TBG requested and received information from the district for FY 2019-20 through FY 2022-23. In addition, TBG interviewed Anastasia MCD staff and reviewed documentation both online and as provided from Anastasia MCD's accounting and operation systems. Revenues increased by over \$1 million during the review period, from \$6.52 million in FY 2019-20 to \$7.88 million in FY 2022-23 (**Table 7**).

Expenditures increased from \$4.85 million in FY 2019-20 to \$8.07 million in FY 2021-22. Expenditures in FY 2022-23 were \$6 million through May. The increased expenditures in FY 2021-22 were attributable to the construction of the Disease Vector Education Center and contracted grant-funded positions. The district is also in the process of constructing a Sterile Insect Technique (SIT) building. As of September 30, 2022, the district's total expenditures for the education center and the SIT building were \$3.1 million and \$1.04 million, respectively. Additionally, the district had around \$550 thousand in other costs related to non-cash depreciation.

Table 7. Revenues and Expenditures

Revenues and Expenditures (in \$Mil.)	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
<b>Revenues</b>	<b>\$6.52</b>	<b>\$7.10</b>	<b>\$7.21</b>	<b>\$7.88</b>
Ad Valorem	\$5.81	\$6.28	\$6.70	\$7.39
Other Sources	\$0.71	\$0.81	\$0.51	\$0.49
<b>Expenditures</b>	<b>\$4.85</b>	<b>\$5.97</b>	<b>\$8.07</b>	<b>\$6.00</b>
Administrative Costs <sup>2</sup>	\$0.75	\$0.93	\$1.30	\$1.03
Direct Program and Activity Costs	\$3.58	\$4.48	\$6.22	\$4.96
Other Expenditures	\$0.53	\$0.55	\$0.55	\$0.00

Source: TBG Work Product, MCD.

<sup>1</sup>2023 YTD through May.

<sup>2</sup> Categorization of administrative costs was completed by Anastasia MCD based on an outline provided by TBG to ensure consistency across reports.

Anastasia MCD revenues exceeded expenditures during two of past three full fiscal years. The excess revenues have been used to steadily repay debt associated with the Disease Vector Education Center, and while expenditures exceeded revenues by \$0.86 million in FY 2021-22, this was due to the district’s continued efforts to cover the costs of the capital outlay for the education center as well as the SIT center. District staff reported that as of June 2023, the district has no debt associated with the education center. Even though the millage rate decreased from 0.2100 in FY 2019-20 to 0.1900 in FY 2022-23, revenues collected by the Anastasia MCD during the current and previous three fiscal years continued to increase, largely due to continued development in the region and rising property values. The increasing revenues have helped the district manage costs of new facilities and pay off the debt associated with the construction of the education center. The district will continue to generate revenues from visitors to the education center and proceeds from its annual workshop and education-related grants. Thus far in FY 2022-23, revenues have exceeded expenditures by \$1.88 million. These trends suggest the district’s financial stability will continue into the future.

### Administrative Costs

**Expenditures on administrative staff and other costs increased substantially from FY 2019-20 through FY 2021-22 mostly due to construction costs.** Anastasia MCD provided a breakdown of total expenditures by administrative and other program costs.

**Table 8** summarizes the detailed administrative cost data provided by the district. Administrative Personal Services expenditures marginally increased from \$297,829 in FY 2019-20 to \$343,426 in FY 2021-22, and Personal Service Benefits also increased during the same period due to an increase in grant-funded personnel. Costs for Land and Buildings increased substantially from \$150,020 in FY 2019-20 to \$551,190 in 2021-22, which is largely attributable to the construction costs associated with the new education center and the SIT Building.

Table 8. Administrative and Other Cost Data

Expenditure Category <sup>1</sup>	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>2</sup>
Personal Services	\$297,829	\$330,398	\$343,426	\$233,916
Personal Service Benefits	\$137,755	\$164,093	\$182,253	\$144,816
Operating Expenses	\$37,402	\$46,603	\$49,359	\$55,854
Travel, Utilities, Repair, & Maintenance	\$43,327	\$57,767	\$69,589	\$65,961
Supplies and Materials	\$79,061	\$98,658	\$101,432	\$92,317
Land and Buildings	\$150,020	\$237,397	\$551,190	\$441,759
<b>Total</b>	<b>\$745,394</b>	<b>\$934,916</b>	<b>\$1,297,249</b>	<b>\$1,034,622</b>

Source: TBG Work Product, MCD.

<sup>1</sup> Categorization of administrative costs was completed by Anastasia MCD based on an outline provided by TBG to ensure consistency across reports.

<sup>2</sup> 2023 YTD through May.

## Direct Program Costs

Expenditures on direct program costs increased substantially from FY 2019-20 through FY 2021-22 mostly due to construction costs as well. Anastasia MCD provided a breakdown of total expenditures by direct program costs, which are summarized in Table 9. Direct Personal Service expenditures increased from \$1.43 million in FY 2019-20 to \$1.65 million in FY 2021-22 and direct Personal Service Benefits increased as well during the same period due to an increase in grant-funded personnel. Another large direct expenditure category, Supplies and Materials, saw cost increases in FY 2021-22 compared to the prior two fiscal years. Total direct costs increased between FY 2019-20 and FY 2021-22 by 74%. Capital Outlay costs more than tripled from FY 2019-20 to FY 2021-22, largely attributable to the construction of the Disease Vector Education Center and the SIT Center.

Table 9. Direct Program Cost Data

Expenditure Category <sup>1</sup>	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>2</sup>
Personal Services	\$1,428,553	\$1,584,772	\$1,647,262	\$1,121,988
Personal Service Benefits	\$660,747	\$787,080	\$874,184	\$694,618
Operating Expenses	\$179,402	\$223,534	\$236,754	\$267,904
Travel, Utilities, Repair, & Maintenance	\$207,822	\$277,084	\$333,786	\$316,385
Supplies and Materials	\$379,220	\$473,217	\$486,526	\$442,803
Capital Outlay	\$719,580	\$1,138,688	\$2,643,814	\$2,118,923
<b>Total</b>	<b>\$3,575,324</b>	<b>\$4,484,375</b>	<b>\$6,222,327</b>	<b>\$4,962,622</b>

Source: TBG Work Product, MCD.

<sup>1</sup> Categorization of direct program costs was completed by Anastasia MCD based on an outline provided by TBG to ensure consistency across reports.

<sup>2</sup> 2023 YTD through May 2023.

## Contracts for Services

Anastasia MCD contracts for legal and engineering services, accounting and auditing, and other services; contracted service costs were relatively consistent during the review period, except for FY 2021-22 when previously outsourced aerial operations changed. To understand the operations of the district, TBG interviewed Anastasia MCD staff to review the details of their operations. Costs for legal and engineering services and accounting and auditing services have remained fairly constant through the review period while other contractual

services have fluctuated slightly over the review period. The district enhanced in-house aerial operations with the purchase of two military surplus helicopters in January 2021. Anastasia MCD maintains an annual contract for aerial emergency support with fixed-wing aircraft for \$300,000, but due to the district’s current aerial capability and emphasis on aerial larvicide and treatment of hot spots following heavy rainfall events, the district has not needed to use an aerial emergency contractor for adulticiding in the past several years, thus saving the district \$300,000 annually. **Table 10** summarizes contracted services activity by the Anastasia MCD for the period of review.

**Table 10. Summary of Contracted Services**

<b>Expenditure Category<sup>1</sup></b>	<b>FY 2019-20</b>	<b>FY 2020-21</b>	<b>FY 2021-22</b>	<b>FY 2022-23<sup>2</sup></b>
<b>Professional Services</b>	\$0	\$0	\$0	\$0
<b>Legal &amp; Engineering Services</b>	\$16,762	\$18,653	\$21,362	\$8,734
<b>Accounting &amp; Auditing</b>	\$12,000	\$11,500	\$12,500	\$13,300
<b>Other Contractual Services</b>	\$51,478	\$94,919	\$99,338	\$66,630
<b>Total</b>	<b>\$80,240</b>	<b>\$125,072</b>	<b>\$133,200</b>	<b>\$88,664</b>

Source: TBG Work Product, MCD.

<sup>1</sup> Categorization of administrative costs was completed by Anastasia MCD based on an outline provided by TBG to ensure consistency across reports.

<sup>2</sup> 2023 YTD through May 2023.

## Staff

Anastasia MCD had 26 full-time paid in-house staff and four contracted and four seasonal part-time staff in FY 2021-22. TBG examined detailed staffing information provided by Anastasia MCD, as well as documentation available online and through DACS reporting and audits. In FY 2012-22, Anastasia MCD had 26 full-time, four grant-contracted, and four seasonal part-time staff. In addition, Anastasia MCD had 14 volunteers (seven college interns, four high school interns, and three adjunct professors). Anastasia MCD employs staff across a number of different administrative and technical positions requiring a variety of skills and expertise. Staff positions are reported in **Table 11**.

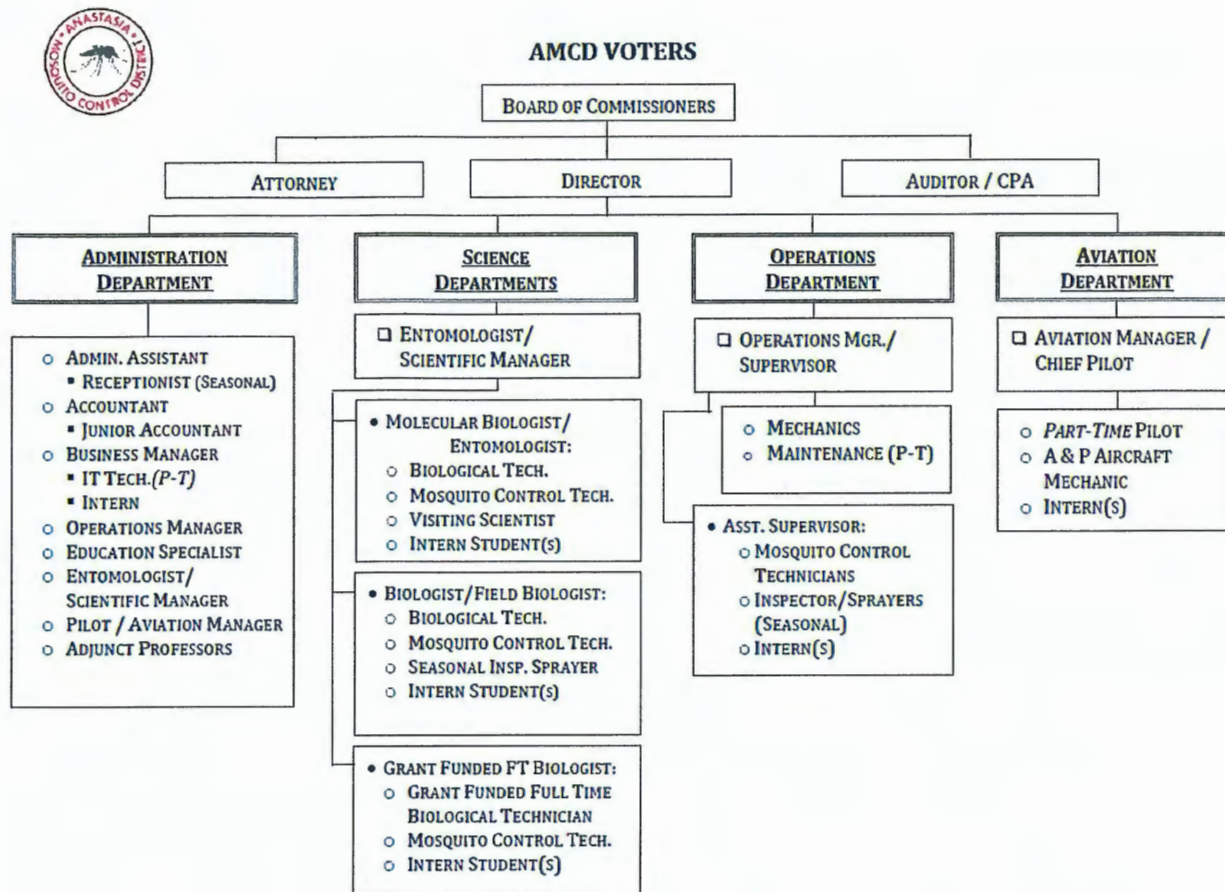
**Table 11. Anastasia MCD Staff Positions**

<ul style="list-style-type: none"> <li>• Accountant/ Bookkeeper</li> <li>• Biologist</li> <li>• Bio Tech</li> <li>• Business Manager</li> <li>• Chief Financial Officer</li> <li>• Director</li> <li>• Education Specialist</li> <li>• Entomologist/ Scientific Mgr.</li> </ul>	<ul style="list-style-type: none"> <li>• Field Biologist</li> <li>• Helicopter Mechanic</li> <li>• IT Specialist</li> <li>• Mechanic</li> <li>• Molecular Biologist</li> <li>• Mosquito Control Tech</li> <li>• Operations Manger</li> </ul>	<ul style="list-style-type: none"> <li>• Pilot</li> <li>• Supervisor</li> <li>• Inspector Sprayer Seasonal</li> <li>• Public Relation Assistant</li> <li>• Seasonal Maintenance</li> <li>• Interns, Special Projects</li> </ul>
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Source: TBG Work Product, Anastasia MCD.

An organizational chart is provided in **Figure 3**.

Figure 3. Anastasia MCD Organizational Chart



Source: Anastasia MCD.

### Analysis of Program Staffing Levels

Anastasia MCD had a stable number of commissioners and employees over the review period and is appropriately staffed for the scale and scope of its operations compared to other similarly sized MCDs in Florida. Data provided by the district shows successful recruitment of qualified staff and achievement of high levels of retention for the current FY and three previous FYs. Full-time employees have been 25 or 26 every year, with only one or two vacancies open (Table 12). In addition, Anastasia MCD routinely employs several part-time, grant-funded, and contracted workers. A dozen or more volunteers assist Anastasia MCD each year as well. Staff turnover rate has been low all four fiscal years, with the rate being 2% or lower every year. For FY 2022-23, Anastasia MCD has the same number of full-time positions and increased part-time staff by two and volunteers by three. Grant-contracted staff decreased by two positions. Upward mobility is common as well, with some staff having started out of high school and college and rising to higher positions over their years of service. However, higher turnover is experienced with many of Anastasia’s interns and those in the educational specialist roles because Anastasia MCD serves as a facility for training others in the industry. The higher turnover is expected and not seen as problematic. Long-term staff have access to training, continuing education, and operational research



opportunities to better serve the residents of St. Johns County. Anastasia MCD’s staffing practices, positions, and organization are appropriate for the scale and scope of its operations compared to other similarly sized MCDs in the state, such as Citrus MCD and Manatee MCD that had 26 and 29 full-time staff in FY 2022-23, respectively.

**Table 12. Anastasia MCD Staff Counts**

Employee Counts	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
<b>Commissioners</b>	5	5	5	5
<b>Full Time</b>	26	25	26	26
<b>Part Time</b>	5	3	4	6
<b>Grant Funded</b>	2	3	4	2
<b>Contracted</b>	2	2	2	2
<b>Volunteers</b>	16	11	14	17
<b>Vacancies</b>	1	2	1	1
<b>Total</b>	<b>57</b>	<b>51</b>	<b>56</b>	<b>59</b>
<b>Turnover Rate</b>	2%	2%	2%	1%

Source: TBG Work Product, FDOR, MCD.

<sup>1</sup>2023 YTD through April.

Anastasia MCD staff reported that new positions will be needed to implement its strategic plan for areas of operational expansion including future drone operations and administration and maintenance of the new Disease Vector Education Center. District staff reported that the district plans to hire one additional administrative staff and one maintenance staff position for the education center.

### **Equipment and Facilities**

**Anastasia MCD has a higher number of equipment and vehicles relative to other similarly sized districts, which can be partially attributed to its more extensive research and educational activities as compared to other similar districts; the facility and buildings are sufficient to meet district needs and continue to expand.** Anastasia MCD owns three Bell 206B3 helicopters (two 1995 models and one 2003 model); one Landau boat (1979 make); one Alumitech air boat (2012 make); 35 trucks/cars; and 10 all-terrain vehicles and utility task vehicles. The Bell 206B3 helicopters were purchased for \$184,832 each in 2021 from military surplus for a fraction of what the helicopters would have cost on the open market. In addition, Anastasia MCD owns one facility site with 10 buildings and three outdoor enclosures as of FY 2022-23. Buildings are designated for different purposes, including laboratory testing, greenhouses, and research facilities.

Anastasia MCD owns sufficient equipment to maintain operations, including 333 pieces of field equipment, 68 lab items, and 115 pieces of office equipment. Anastasia MCD staff indicated that assessments for new equipment haven’t been done for FY 2022-23. The district has a higher number of vehicles, equipment compared to similarly staffed districts like Citrus and Manatee MCDs. In FY 2022-23, Citrus MCD had 38 vehicles and 87 pieces of equipment and Manatee MCD had 33 vehicles and 153 pieces of equipment. A summary of the number of vehicles, equipment, and facilities owned by Anastasia MCD is provided in **Table 13** and a summary of surveillance equipment is in **Table 14**. The district has a higher number of vehicles and equipment compared to similarly staffed districts like Citrus and Manatee MCDs. In FY2022-23, Citrus MCD had 38 vehicles and 87 pieces of equipment and Manatee MCD had 33 vehicles and 153 pieces of equipment.



**Table 13. District Vehicles, Equipment, and Facilities**

Category	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
<b>Vehicles</b>	<b>47</b>	<b>48</b>	<b>50</b>	<b>50</b>
Helicopters	0	3	3	3
Boats	2	2	2	2
Trucks and Vans	37	35	35	35
ATVs and Utility Vehicles	8	9	10	10
<b>Equipment</b>	<b>451</b>	<b>403</b>	<b>516</b>	<b>516</b>
Field Equipment	302	247	333	333
Lab Equipment	71	57	68	68
Office Equipment	78	99	115	115
<b>Facilities</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
Buildings	11	11	11	13

Source: TBG Work Product, Anastasia MCD.

<sup>1</sup>2023 YTD through April.

**Table 14. Surveillance Equipment**

Category	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
<b>Mosquito Traps</b>	<b>151</b>	<b>151</b>	<b>151</b>	<b>151</b>
CDC Light Traps	54	54	54	54
CDC Gravid Traps	12	12	12	12
Biogents Traps	24	24	24	24
Ovitrap	24	24	24	24
Sentinel Chicken Coops	10	10	9	9
Sentinel Chickens	60	60	54	54

Source: TBG Work Product, Anastasia MCD.

<sup>1</sup>2023 YTD through April.

In FY 2018-19, Anastasia MCD's capital outlay was \$2.2 million, primarily for building construction activities. In FY 2019-20, the amount of budgeted capital outlay dropped as there was a smaller share dedicated to buildings, but this trend increased for the next two fiscal years, with the majority of capital outlay for buildings in FY 20-21 (\$1.2 million). For FY 2021-22, Anastasia MCD expended \$3.2 million in capital outlay, which included \$2.5 million for buildings and \$369,000 for the purchase of two additional Bell 206B3 helicopters and one 206B helicopter in FY 2020-21. These purchases and investments increased the district's facility's inventory of buildings and equipment since FY 2019-20 to 13 buildings, three outdoor enclosures, 45 vehicles, two vessels, and three helicopters in FY 2022-23. Building expenditures have primarily been for the Disease Vector Education Center and the SIT building. The education building's interior displays are under development and expected to be finished in late fall of 2023. The SIT building project is also estimated to be completed by late 2023 and the district plans to fully operate the SIT Building in Spring 2024.

## ***Strategic or Other Formal Plans for the District's Future***

**Anastasia MCD has created a strategic plan outlining its objectives for 2021-2025, including plans to standardize and continue to improve services, tools, and methods.** Anastasia MCD developed a five-year strategic plan for 2021 through 2025 that establishes five objectives to expand and improve mosquito control operations in St. Johns County. The objectives include standardization of certain operating procedures and surveillance methods, improvements to arbovirus surveillance, promoting good laboratory practices, and promoting education and evaluation of public outreach tools.

The strategic plan outlines several steps in the district's work plan that it plans to accomplish each year. Such steps include continuing to provide training and certification for vector-borne disease professionals from other states, continuing to review and update arthropod control plans with related agencies, and exploring and implementing a drone operation program which would include the purchase of several drones for surveillance, larviciding, and the release of sterilized male mosquitoes and mapping, among many other uses. Additionally, Anastasia MCD staff indicated that a meeting was held in March 2023 about the development of the next five-year strategic plan.

## ***Review of Performance Reviews, Financial Audits, and Resident Feedback Surveys***

**Anastasia MCD audits report no material findings nor weakness in internal controls and no performance reviews have been conducted; the district conducts customer satisfaction surveys.** Analysis of Anastasia MCD's financial audits was conducted by reviewing financial audits provided by the district. Review of the Independent Auditors' Reports from the last three fiscal years (FY 2019-20 through FY 2021-22) showed no findings or issues. Auditors report that the statements fairly represent Anastasia MCD's financial position. Anastasia MCD's revenues routinely cover costs, and the district's financial position is sound indicating financial stability and accountability.

Anastasia MCD has a number of forums through which resident feedback is received. The district routinely presents to community groups/civic associations and runs school-based education programs to teach about mosquito control. Residents have several direct ways to contact the Anastasia MCD, including by phone, apps, social media, email, and at monthly commissioner meetings. Anastasia MCD conducts regular customer satisfaction surveys for its services. In its 2022 Annual Report, the district reports that almost 90% of respondents strongly agree that the district's staff are professional and informative, and slightly more than 90% of respondents strongly agree that the district responds to service requests within 1 to 2 business days. The report does not specify how the survey is distributed or the total number of survey respondents. Per district representatives, no performance reviews have been conducted in the past five years. The district had planned to conduct a program review in April of 2020, but it was cancelled due to the COVID-19 public health emergency.

## ***Analysis of Management Reports/Data and Performance Information***

**Anastasia MCD actively manages performance success or failure of its operations and administration against goals, and has effective reporting mechanisms in place to measure results on a timely basis.** To assess management reporting and performance information, TBG reviewed documentation provided by Anastasia MCD, including the five-year strategic plan and annual reports. The audited financial statements, annual reports, and board packets reviewed reflect regular monitoring of performance, identification of issues as they arise and discussion of opportunities to improve efficiency and effectiveness. For example, at board meetings, board members discussed the progress of the construction of the education center, staffing updates, updates on new

grant-funded research being pursued by staff to evaluate effectiveness of various mosquito control practices, and other items.

### **Evaluation of Cost, Timing, and Quality of Current Program Efforts**

**Anastasia MCD manages program costs and quality effectively and efficiently.** To assess cost, timing, and quality of program efforts, TBG reviewed documentation provided by Anastasia MCD, publicly available data and reports, interviewed Anastasia MCD staff, and visited the district’s facilities. Current program efforts include continuous monitoring of programs for effectiveness, including monitoring of insect resistance to specific chemicals as well as product-efficacy testing for the EPA and CDC, and in-house building and maintenance of equipment to improve the efficiency of operations and reduce costs. The district purchased two helicopters in the past several years, reducing their reliance on contracted costs of \$300,000 annually for aerial treatment services. The district runs an extensive research and education program with numerous collaborators among agencies, professional organizations, and academic institutions worldwide to continually learn about and work on new techniques and technologies to improve effectiveness of mosquito control programs and reduce costs.

While most MCDs in Florida do not have their own labs, the Anastasia MCD has in-house lab testing of sentinel chicken blood and mosquito pool testing, which can reduce the time to receive results for the analysis of disease-bearing mosquitoes. As a result, necessary missions to treat mosquito populations can be carried out quickly after detecting that disease-carrying mosquitoes are present. With mosquitoes able to multiply rapidly, and in a highly populated and tourism-dependent area, the ability to rapidly react is valuable and effective. In addition, the district will have a space dedicated to sterilized insect operations to advance mosquito control efforts in the near future. The Sterilized Insect Technique is a biological control practice that could reduce costs by reducing reliance on chemicals and continued research into its effectiveness is an effort the district is currently undertaking.

Anastasia MCD has noted that statutory purchasing requirements add delays for the procurement of equipment for aircraft maintenance. Pursuant to s. 287.057, *Florida Statutes*, commodities and services in excess of \$35,000 must be procured through a competitive solicitation process that requires time for advertisement, review, and award, as well as time to address challenges to the solicitation process if filed. According to district representatives, parts for aircraft maintenance routinely exceed \$35,000, requiring 90 to 120 days for the solicitation process. This process delays the conduct of aircraft maintenance and prevents MCDs from making quick repairs and operating efficiently.

### **Goals, Objectives, Performance Measures and Standards**

**Anastasia MCD has three general goals and several measurable objectives that adequately address the district’s statutory purpose, provide direction to the district, and are achievable within budget; the district tracks performance and has been meeting standards for some measures but could establish additional performance metrics.<sup>5</sup>**

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<sup>5</sup> Information on the Anastasia MCD’s goals, objectives, problems or needs addressed, expected benefits, and performance measures and standards is available at the district level only.

To assess the district’s goals, objectives, and performance measures and standards, TBG requested and reviewed the district’s charter; requested and reviewed the district’s strategic plan and the last three years of annual reports; requested and received information on performance measures and standards and records of current and previous three fiscal years’ measures, standards, and records of success or failure to meet the standards and evaluated the district’s actual performance in meeting its goals and objectives. TBG assessed whether performance measures and standards are relevant, useful, and sufficient to evaluate the performance and costs of the programs and activities, whether they are being met, and whether they need to be revised. TBG requested and reviewed previous performance reviews and audits; requested district assessments of why (if applicable) the district failed to meet performance measures and standards and/or goals and objectives; and requested information from the district on actions taken to address and prevent such failures in the future. In addition, TBG interviewed district staff and relevant local government entities about district performance and requested any available results of district-generated resident feedback surveys conducted during the current and previous three fiscal years.

## **Goals**

Anastasia MCD has established the following three overarching goals at the district level:

- Protecting the public from the nuisance of mosquitoes and mosquito-borne diseases in St. Johns County;
- Educating the populace on the importance of mosquito control; and
- Researching, and providing training on, new practices in mosquito control.

To address its goals, Anastasia MCD focuses on surveillance and ground and aerial operations. The district has multiple programs including inspections, arbovirus, mosquito population and environmental surveillance, larviciding, and adulticiding. Ground operations divide the county in 13 zones to inspect potential areas with large mosquito populations. Aerial operations are used for spraying pesticide in needed areas. Beyond field operations, Anastasia MCD also has education, research, and customer service programs.

## **Objectives**

The district’s 2021-2025 Strategic Plan establishes the following objectives to assist the district in achieving its goals and improving the district’s performance:

1. Standardize the district’s customer services, develop standard operating procedures (SOPs), and analyze the last five to eight years of service request data to continue to improve customer services.
2. Standardize all surveillance tools and methods, develop SOPs, and conduct a feasibility study/analysis of the in-house capability for arbovirus surveillance (mosquito pooling for virus detection, sentinel chickens, and new detection methods).
3. Develop SOPs for ground and aerial applications of larvicides and adulticides and analyze ground and aerial operations to improve their efficiencies.
4. Promote the Good Laboratory Practices Program (GLPP) through applied research and evaluation and develop collaboration with the CDC, World Health Organization (WHO), and Innovation Vector Control Consortium for the Collaboration Center of Evaluation for Prevention and Control of Vector-borne

Diseases. As discussed previously in this report, the district is currently constructing a new building to conduct Sterilized Insect Technique testing, and with this objective, aims to provide sterilized male mosquitoes to other counties in Northeastern Florida who are interested in this technique.

5. Promote public education and evaluate/justify the effectiveness and impact of tools used in public outreach. Develop the collaboration center to provide training to staff from the CDC, WHO, and mosquito control professionals from African nations.

These goals and objectives address several problems. Anastasia MCD was founded to combat nuisance and disease-carrying mosquitoes within the county boundary. As human development disturbed larval habitats and the county built a reputation for coastal tourism, the Anastasia MCD has been called upon to reduce the threat caused by mosquito populations in those locations. In addition, chemicals used by the Anastasia MCD do not pose unreasonable risks to human health according to the EPA. Expected benefits of these goals and objectives include reduction in mosquito-borne disease and reducing the nuisance of mosquitoes. Anastasia MCD also tracks disease prevalence in the county, using the Florida Department of Health (DOH) disease incidence reports published on DOH's website weekly.<sup>6</sup> Education and research have a large presence in Anastasia MCD as well. A more active and educated populace as well as a center of research for international mosquito control science has been developed at Anastasia MCD.

### ***Performance Measures and Standards***

**Anastasia MCD has not established formal performance measures and standards tied to each district goal and objective but does maintain and track performance over time for responses to service calls and prevalence of human-borne arbovirus in the district; it also tracks its research and education activities in its annual report.** The district does not have formally established performance measures and standards associated with each district goal and objective but has monitored service calls and responses and disease prevalence for the current and past three fiscal years. The following is a summary of the district's current performance measures and standards.

1. **Standard:** Address citizen requests for mosquito control efforts in a timely manner.

**Measure:** Number of service requests received and addressed with improved average response times.

2. **Standard:** Zero human cases or deaths related to arboviruses acquired in Florida and detected in St. Johns County.

**Measures:** Counts of arboviruses disease cases in humans as reported by DOH. TBG's review of counts for the past four calendar years identified one domestic case in St. Johns County. Anastasia MCD conducts weekly arbovirus surveillance, submits sentinel chicken blood samples for disease detection, and analyzes DOH reports to measure the success of their disease prevention efforts. Through both the DOH Laboratory and in-house capabilities, Anastasia MCD monitors West Nile virus (WNV), eastern equine encephalitis virus (EEEV), Saint Louis encephalitis virus (SLEV), Highland James virus (HJV), and California Group virus, using nine sentinel chicken sites around St. Johns County.

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<sup>6</sup> [Mosquito-Borne Disease Surveillance | Florida Department of Health \(floridahealth.gov\)](https://www.floridahealth.gov/diseases-and-conditions/mosquito-borne-disease-surveillance/)

3. **Standard:** To be a state, national, and global leader in mosquito control through active efforts for the advancement of applied research and education.

**Measures:** Number of publications, amount of research grant funds, reputation among professional organizations and agencies, and professional activities such as hosting workshops and providing training for professionals and students.

### ***Analysis of Goals, Objectives, and Performance Measures***

**For the current and past three fiscal years, Anastasia MCD shows favorable performance with respect to responses to service calls, maintaining a very low incidence of human arbovirus cases acquired in Florida, and demonstrating leadership in mosquito control research and education.** While the district does not have formally established performance measures and standards for each district goal and objective, the district monitors service calls and responses and disease prevalence. In addition, the district has established a performance standard to be known as a leader in mosquito control research and education.

Anastasia MCD has responded to all service calls placed in the current and past three fiscal years. Anastasia MCD staff reported that in FY 2021-22, district staff responded to 4,364 requests with an average response time of 1.4 days. Service requests are received via phone, email, website, and phone app, with more than 75% of service requests coming in through the phone app and web interface. The district reported in its strategic plan that it aims to track data on average response time and improve average response times to service calls. District staff reported to TBG that they reviewed annual response time data over the current and prior three fiscal years and that the time to respond to service requests has been reduced from approximately two days to less than one day. While it appears, based on information reported by the district, that it has successfully improved response times over the review period, it is not possible to fully assess this performance standard because the district did not provide annual data on service request average response times when requested by TBG.

Disease tracking is provided through coordination with the county health department to monitor for mosquito borne diseases, as well as through the in-house laboratory capabilities. These efforts help determine where surveillance should be conducted and determine where further cases may arise, as well as which types of mosquitoes to monitor and treat. As of this writing, there have been no arbovirus-related deaths in St. Johns County. The only Florida-acquired human case detected in St. Johns County that has been recorded in the last 19 years occurred in 2022.

The district is clearly demonstrating its leadership in mosquito control research through the wide variety of research activities and collaborations it continually conducts, numerous educational activities provided through its annual training workshop and internship opportunities, and the educational events it has regularly conducted with local partners for the current and past three fiscal years. The district has over 200 publications evaluating spatial repellents/topical repellents, repellent devices, different formulations of larvicides and adulticides, surveillance tools, spray devices, and novel technologies and has received over \$2 million in grant funds from the DOD, CDC, USDA, State of Florida, and industry through collaborative research. The district has also recently been recognized as a GLPP-capable testing facility, which provides the district with opportunities to continue advancing research in the disease vector research space on behalf of the EPA and CDC. Anastasia MCD also organizes the Annual Arbovirus Surveillance and Mosquito Control Workshop, which has recently completed its 18<sup>th</sup> year. Collectively, these continuing education efforts have resulted in the certification of over 100 professional

mosquito control educators and professionals nationwide, training for college-level students, over 80 internships, and more than 360 CEU credits for vector control professionals.

The district should continue monitoring these three performance standards; these measures indicate that the district is making progress toward its three overarching goals of protecting and educating the public and conducting research activities to advance mosquito control methods. In addition, Anastasia MCD has completed the purchase of additional helicopters to expand operations and provide additional services and capacity to maintain mosquito control and has constructed new facilities to improve operational and educational capacity. The district’s goals and objectives are consistent with the district’s activities to date and appear achievable within the district’s budget. While the district is generally demonstrating progress towards the achievement of its goals and objectives, it could develop more specific programmatic goals and objectives and develop performance measures and standards that would improve its ability to track future progress.

**Table 15** reports service delivery metrics and disease prevalence within the Anastasia MCD for the current and past three fiscal years. **Table 16** summarizes performance measures and standards assessment.

**Table 15. Performance Measures for Anastasia MCD**

Performance Measure	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23 <sup>1</sup>
Service Calls	1,540	2,560	4,364	2,300
Service Responses	1,540	2,560	4,364	2,300
	CY 2020	CY 2021	CY 2022	CY 2023 <sup>1</sup>
Arbovirus Cases (Florida)	0	0	1	0
Arbovirus Cases (Travel)	0	1	3	0
Arbovirus Deaths	0	0	0	0

Source: TBG Work Product, MCD, DOH.

<sup>1</sup> 2023 YTD through April.



**Table 16. Assessment of Performance Measures and Standards for Anastasia MCD**

Performance Measure	Performance Standard	Assessment
Number of service requests received and addressed with improved average response times	Address citizen requests for mosquito control efforts in a timely manner	Performance standard to respond to all service requests met; standard to improve response times over time partially met based on district information that average response time has been reduced from about 2 days to less than 1 day, but lack of annual data on average response times does not allow full assessment of standard.
Counts of arboviruses disease cases in humans as reported by DOH	Zero human cases or deaths from arboviruses acquired in Florida and detected in St. Johns County.	Standard met in CYs 2020 and 2021 and through April of CY 2023; not met in CY 2022.
Evidence of professional activities including publications, research grant funds, reputation among professional organizations, hosting workshops and providing training for professionals and students	To be a state, national, and global leader in mosquito control through active efforts for the advancement of applied research and education	Standard met.

Source: TBG Work Product, based on review of information provided by Anastasia MCD.

### ***Perceptions of the District's Performance by Local Government Stakeholders, Residents, and Other Relevant Local Stakeholders***

Perceptions of the Anastasia MCD's performance by stakeholders appear to be mostly positive; some negative feedback was received regarding the costs to construct the Disease Vector Education Center. As discussed above, Anastasia MCD conducts resident surveys and has received positive feedback via emails, public events, and through commissioner meetings. The district has also shown the Disease Vector Education Center to 700 visitors, who included representatives of the DOH, the school board, state and federal agencies, and local community organizations. Most expressed positive feedback as well as support for the programs and the new center. District staff also report receiving some negative feedback from individuals who felt the cost of the center was too high. TBG requested information from representatives of the Board of County Commissioners, local health department, and local parks and recreation department on their perceptions of the district's service delivery and efficiency but did not receive any stakeholder responses after multiple contacts.

## 3. Recommendations

### *Discussion and Analysis*

TBG analyzed findings by fiscal year to determine if revisions to district organization or administration can improve the efficiency, effectiveness, and/or economical operation of the district and presents three recommendations. TBG recommends a statutory change to allow MCDs to access solid waste management grant funds from DEP that could help improve the efficiency of the district's operations by reducing costs for the important and never-ceasing source reduction activity of waste tire collection and disposal. TBG also determined the district could develop additional performance measures and standards. Finally, TBG determined that the Legislature may wish to consider directing the Florida Coordinating Council on Mosquito Control to develop model goals, objectives, and performance measures and standards to assist MCDs in this state.

*Waste Tire Collection and Disposal Fees:* Waste tires are commonly found scattered throughout residential and commercial areas across the state, and the design of tires makes them ideal habitat for mosquito larva, particularly for species of mosquito that are known to be important disease vectors. The removal of waste tires can help reduce populations of these disease-carrying mosquitoes and reduce the threat of diseases like dengue and Zika. However, the problematic mosquito-producing habitats created by waste tires are difficult to manage through routine chemical applications but can be managed through proper disposal.

Anastasia MCD staff reported that the district collected 799 tires annually on average in the current and prior three fiscal years and spends on average approximately \$2,000 per year on waste tire collection and disposal. In addition, the district reported that due to labor and tire processing needs, the district currently limits the number of tires it collects from residential properties to ten tires per property. The district has not sought or received any additional funds to help support tire collection and disposal efforts nor is it exempt from local landfill fees. The district is currently incurring costs and inefficiencies in managing waste tire collection and disposal, which is an important source reduction activity. Although Anastasia MCD has had excess revenues in two of the past three fiscal years, it is important for any public entity like an MCD to keep funding reserves to be prepared for unexpected expenditures that could result from disease outbreaks.

In Florida, DEP regulates the disposal of waste tires by creating requirements for the collection and disposal of waste tires at solid waste management facilities and waste tire processing facilities across the state.<sup>7</sup> These facilities typically charge fees for the disposal of waste tires, which frequently cannot be waived due to bond requirements for the facilities. MCDs must pay these fees if the districts choose to collect and dispose of waste tires.

The state currently collects a waste tire fee of \$1 per each new tire sold at retail.<sup>8</sup> These funds are allocated in different amounts defined in statute to various activities related to solid waste management in the state, including funds that DEP is directed to use for general solid waste activities.<sup>9</sup> DEP currently uses a portion of this funding to reimburse counties for hosting waste tire amnesty events during which residents may bring in waste tires for disposal free of charge (businesses are not eligible for participation). DEP opens this opportunity annually from

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<sup>7</sup> Sections [403.717](#) and [403.718](#), F.S. and Rule Chapter [62-711](#), F.A.C.

<sup>8</sup> Section [403.718](#), F.S.

<sup>9</sup> Section [403.709\(1\)](#), F.S.

July through May to all counties in the state, and any county may apply for the assistance through the department by providing a scope of work including a description of how the amnesty event will be held, how many tires the district anticipates receiving, and other information. According to DEP representatives, the department advertises this funding opportunity specifically to counties; however, DEP has also allowed MCDs to apply for and receive the funding for waste tire amnesty events. For example, the Florida Keys MCD and East Flagler MCD, as discussed in their reports, received such funding in FY 2022-23.

For districts in which waste tires present a significant mosquito control challenge, the availability of funding to support waste tire abatement would be beneficial. Although DEP in its discretion has allowed MCDs to apply for the waste tire amnesty event funding in the past, advertising for the funding is not directed toward MCDs, and the department is not required by statute to continue to offer such funding in the future. Moreover, some MCDs would benefit from the reimbursement of waste tire disposal fees and other costs incurred by the district for tires collected and disposed of by district staff, in addition to funding for hosting waste tire amnesty events. Facilitating increased and consistent access to waste tire disposal funds by MCDs could help increase tire collections around the state, which has benefits beyond mosquito control, including general pollution reduction and beautification.

To allow regular access to waste tire abatement funding by MCDs, facilitate increased waste tire collection by MCDs around the state as a means of mosquito control, and increase the hosting of events like waste tire amnesty days by MCDs, the Legislature could consider amending section 403.709(1), *Florida Statutes*, to require a portion of the funds currently administered by DEP for solid waste activities to be allocated to waste tire abatement activities by MCDs.

*Performance Standards and Measures:* Anastasia MCD has developed a formal strategic plan with clear goals and objectives but has not developed formal performance measures and standards tied to each district goal and objective. The district could establish clearly defined performance measures and standards with which to assess its progress towards achieving its goals and objectives.

*Florida Coordinating Council on Mosquito Control:* During TBG’s review of the 15 independent MCDs, TBG found that most districts have not developed sufficient goals, objectives, or performance measures and standards. The Florida Coordinating Council on Mosquito Control was established by the Legislature to foster maximum efficient use of existing resources and to assist entities involved in mosquito control with best management practices. Membership on the council includes the agency heads for DACS, DEP, and the Fish and Wildlife Conservation Commission, the State Surgeon General, as well as representatives of federal agencies, the University of Florida’s Florida Medical Entomology Laboratory, Florida MCDs, and others. The Legislature could direct the council to form a subcommittee consisting of mosquito professionals and researchers from around the state to develop model MCD goals, objectives, and performance measures and standards to assist MCDs with performance monitoring.<sup>10</sup>

## **Recommendations**

A summary of TBG’s recommendations to improve operations, reduce costs or reduce duplication is provided in **Table 17**.

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<sup>10</sup> Section [388.46](#), F.S.

Table 17. Recommendations with Associated Considerations

Recommendation	Considerations
<p>The Legislature could consider amending section 403.709(1), <i>Florida Statutes</i>, to require a portion of the funds currently administered by DEP for solid waste activities to be allocated to waste tire abatement activities by MCDs.</p>	<ul style="list-style-type: none"> <li>• This recommendation would require a statutory change.</li> <li>• This recommendation would require DEP staff to communicate information about resources available through the department for waste tire collection and disposal assistance to MCDs and might add nominal additional administrative costs for the department.</li> <li>• This recommendation could lead to additional expenditures by the department from the Solid Waste Management Trust Fund; department staff reported that there tend to be unexpended funds from this funding source each year.</li> </ul>
<p>The district could formalize additional performance measures and standards that would allow the district to monitor and track progress toward all its goals and objectives. Such performance information would facilitate the district in consistently monitoring its progress.</p>	<ul style="list-style-type: none"> <li>• This recommendation would require additional staff time and may result in additional administrative costs to the district.</li> </ul>
<p>The Legislature could consider amending s. 388.46, <i>Florida Statutes</i>, to direct the Florida Coordinating Council on Mosquito Control to form a subcommittee consisting of mosquito professionals and researchers from around the state to develop model goals, objectives, and performance measures and standards to assist MCDs with performance monitoring.</p>	<ul style="list-style-type: none"> <li>• This recommendation would require a statutory change.</li> <li>• This recommendation would impose additional workload on council members and staff.</li> <li>• The council’s membership could assemble a subcommittee with a broad range of expertise that could be ideal for the development of such model performance information.</li> <li>• While this guidance will assist all MCDs, it will be of particular benefit to MCDs that lack staff resources for the development of such performance information.</li> </ul>

Source: TBG Work Product, based on review of information provided by Anastasia MCD.

## 4. District Response

Each independent MCD under concurrent review by TBG was provided the option of submitting a formal response letter for inclusion in the final published report. Anastasia MCD did not provide TBG with a response letter for inclusion in the final report.



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# GLOSSARY OF TERMS MOSQUITO CONTROL DISTRICT REVIEWS

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September 2023

Prepared for

**The Florida Legislature**

Prepared by

**The Balmoral Group**

**165 Lincoln Avenue**

**Winter Park, FL 32789**

Attachment 1

Term	Definition
<b>Adulticide</b>	A chemical that kills adult insects, which is usually applied as a spray; depending on the circumstances, adulticide applications can be made from the ground (most commonly with ultra-low volume spray trucks) or from the air (with either fixed- or rotary-wing aircraft or helicopters)
<b><i>Aedes aegypti</i> mosquitoes</b>	The primary type of mosquitoes (commonly referred to as yellow fever mosquitoes) that spread Zika, dengue, chikungunya, and other viruses; because these mosquitoes live near and prefer to feed on humans, they are more likely to spread these viruses to humans than other types of mosquitoes
<b><i>Aedes albopictus</i> mosquitoes</b>	Although competent vectors of dengue, eastern equine encephalitis, and other viruses that affect humans, these mosquitoes (commonly referred to as Asian tiger mosquitoes) feed on animals as well as humans and are, thus, less likely to spread viruses to humans than <i>Aedes aegypti</i> mosquitoes
<b>Altosid</b>	The trade name for a mosquito larvicide that contains a synthetic version of the juvenile hormone insect growth regulator methoprene as the active ingredient
<b>American Mosquito Control Association (AMCA)</b>	A professional association that includes individuals working for mosquito control programs, academics conducting research on mosquitoes and other disease vectors, and industry representatives who support mosquito control efforts around the world; the AMCA is active in member training and educating the public on the health importance of mosquito control in the U.S. and beyond; the association is international in scope and has approximately 1,500 members
<b><i>Anopheles</i> mosquitoes</b>	A genus of mosquitoes with more than 400 species; female mosquitoes in approximately 40 of these species transmit malaria; this is the only genus of mosquitoes that can transmit malaria
<b>Arbovirus</b>	Arthropod-borne viruses that are transmitted to humans primarily through the bites of infected mosquitoes, ticks, sand flies, or midges; includes West Nile virus, eastern equine encephalitis virus, St. Louis encephalitis virus, dengue, chikungunya, Zika, California encephalitis group viruses, and malaria
<b>Arthropod</b>	As defined in Ch. 388, <i>Florida Statutes</i> , titled “Mosquito Control,” “arthropods” are insects of public health or nuisance importance, including all mosquitoes, midges, sand flies, dog flies, yellow flies, and house flies



Attachment 1

Term	Definition
<b>Barrier island</b>	Land that separates the ocean from the mainland; frequently an estuary or a lagoon will be located between the barrier island and mainland
<b>Biogents</b>	A company that produces mosquito traps with the goal of reducing mosquito populations that are produced in container-type habitats
<b><i>Bacillus thuringiensis israelensis (Bti)</i></b>	A naturally occurring bacteria commonly used as a mosquito larvicide since the 1980s
<b>Chikungunya</b>	A mosquito-transmitted disease caused by a virus that originated in Africa and is transmitted by <i>Aedes</i> mosquitoes; symptoms include fever, joint pain, and rash; the name chikungunya comes from the African Makonde language and means “to bend over in pain,” which is the stance that many who contract this disease exhibit
<b><i>Culex</i> mosquitoes</b>	A genus of mosquitoes, several species of which serve as vectors of one or more important diseases of birds, humans, and other animals; the diseases they vector include West Nile virus, Japanese encephalitis, and St. Louis encephalitis.
<b><i>Culiseta melanura</i> mosquitoes</b>	A species of mosquitoes (commonly referred to as the black-tailed mosquito) that is significant due to its role in the transmission cycle of eastern equine encephalitis virus and potentially West Nile virus; these mosquitoes primarily feed on birds but can spread arboviruses to mammals as well
<b>Dengue</b>	A mosquito-transmitted virus that causes sudden fever and acute joint pain; occasionally occurs in Florida where the mosquito vector is <i>Aedes aegypti</i> or <i>Aedes albopictus</i>
<b>Dibrom</b>	The trade name for an organophosphate insecticide with the active ingredient naled; used in mosquito control as an adulticide and is typically applied with aircraft
<b>Dipper</b>	An approximately 300 ml container attached to an extension pole that is used to sample for the presence of mosquito larvae in aquatic habitats
<b>Eastern equine encephalitis virus (EEEV)</b>	A mosquito-transmitted virus that is rare but very dangerous when contracted by a horse, human, or other mammal; an average of 13 cases per year were reported in the United States from 2018-2022; approximately 30% of people with EEEV die and many survivors have ongoing neurologic

Attachment 1

Term	Definition
	problems; in Florida, the freshwater swamp inhabiting mosquito <i>Culiseta melanura</i> is the primary vector of this disease
<b>Fixed-wing aircraft</b>	Commonly referred to as an airplane, these aircraft include stationary wings that provide lift for the aircraft; in mosquito control, these aircraft are commonly used for larvicide and adulticide applications
<b>Florida Coordinating Council on Mosquito Control</b>	An interagency council created in Ch. 388, <i>Florida Statutes</i> , in 1986, primarily to address issues concerning mosquito control applications, possible environmental impacts of control actions, and mosquito control management on State of Florida-owned lands
<b>Florida Department of Agriculture and Consumer Services</b>	The state agency that oversees and regulates mosquito control programs in Florida
<b>Florida Department of Environmental Protection</b>	The state agency responsible for coordinating efforts for intensified mosquito control on protected public lands when needed
<b>Florida Department of Health (DOH)</b>	The state agency responsible for implementing the Florida Sentinel Chicken Surveillance Program, reporting weekly data on the prevalence of arboviruses in this state, issuing public health arbovirus advisories and alerts, conducting or participating in arbovirus epidemiologic investigations, distributing weekly arbovirus epidemiology summary reports for mosquito control agencies, healthcare agencies, researchers, and others, and reporting human and animal arbovirus cases to the national arbovirus surveillance database
<b>Florida Fish and Wildlife Conservation Commission</b>	The state agency responsible for maintaining a database that enables the surveillance of bird mortality from arboviruses and for providing assistance and information on arboviruses in wildlife
<b>Florida Medical Entomology Laboratory</b>	A University of Florida laboratory (within the Institute of Food & Agricultural Sciences) that conducts research primarily on the control of mosquitoes; for the past 70 years, research at this lab has been instrumental in assisting mosquito control programs in Florida and elsewhere
<b>Florida Mosquito Control Association (FMCA)</b>	Created in the 1920s, the FMCA is Florida’s professional association that includes individuals working for mosquito control programs, academic personnel conducting research on mosquitoes and other disease vectors,





Attachment 1

Term	Definition
	and industry, which supports mosquito control efforts in Florida; the FMCA is active in the training of members and educating the public on the public health importance of mosquito control
<b>Florida Sentinel Chicken Arboviral Surveillance Program</b>	A program of the DOH that provides laboratory assistance to local agencies to monitor for the transmission of mosquito-transmitted viruses; sentinel chickens are stationed at locations throughout the state; when the chicken is bit by an arbovirus-transmitting mosquito, the chicken develops antibodies to the virus (the chicken does not become sick and cannot spread the virus to other mosquitoes); blood samples obtained from the sentinel chickens are submitted to DOH’s lab in Tampa to be examined for the presence of antibodies; when present, the results indicate that arbovirus-transmitting mosquitoes are circulating in the location, enabling the increase of mosquito control efforts to reduce the risk of humans and animals from becoming ill
<b>Genetically modified mosquitoes</b>	<i>Ae. aegypti</i> mosquitoes that have been genetically modified to carry two genes: 1) a self-limiting gene that prevents female mosquito offspring from surviving to adulthood; and 2) a fluorescent marker gene that glows under a special red light, thereby allowing researchers to identify the genetically modified mosquitoes in the wild; because the female offspring die before becoming adults, the population of <i>Ae. aegypti</i> mosquitoes decreases
<b>Geographic Information System (GIS)</b>	Integrated computer hardware and software that stores, manages, analyzes, and visualizes geographic information
<b>Good Laboratory Practices Program (GLP)</b>	The goal of GLP is to ensure the quality and integrity of test data related to non-clinical safety studies
<b>Granular application</b>	Granular applications of chemicals differ from liquid applications by having a solid particle carrying the insecticide, which can better penetrate vegetation; this application is primarily used for larvicides to deliver mosquito toxin to the water where mosquito larvae are developing
<b>Impoundment</b>	Impoundments along Florida’s central-east coast were created in the 1950s and 1960s by building earthen dikes around salt marshes known to produce mosquitoes; this allows the mosquito control program to manage the water level within the impoundment to prevent saltmarsh mosquitoes from laying



Attachment 1

Term	Definition
	their eggs in these areas, thus effectively reducing their populations with a minimum need for pesticides; approximately 40,000 acres of impoundments were constructed from Volusia County south to Martin County; the impoundments remain a source reduction control method in the region
<b>Landing rates</b>	A surveillance method to determine the extent of a mosquito problem, where a person stands in a specific location and counts the number of mosquitoes that land on them within a designated period (such as 60 seconds)
<b>Larvicide</b>	A chemical that kills insects in their larval stages; for mosquitoes, larvicide must be introduced into the water where the larvae are developing; depending on the circumstances, larvicide applications can be made from the ground or from the air with either fixed- or rotary-wing aircraft or drones
<b>Light Detection and Ranging (LiDAR)</b>	A remote sensing technology used to precisely detect objects, such as mosquitoes, in real space
<b>Malaria</b>	A life-threatening illness transmitted primarily in tropical locations by female mosquitoes in the genus <i>Anopheles</i> primarily in tropical locations; symptoms include fever, headache, and chills and usually occur within 10-15 days after a bite
<b>Methoprene</b>	A synthetic juvenile hormone, which is an insect growth regulator, that has been used as a larvicide since the mid-1970s
<b>Millage</b>	A tax rate on property expressed as the number of dollars assessed for each \$1000 of property value; for example, the property owner of a house valued at \$250,000, which is assessed at a millage rate of 1.0, would be charged \$250
<b>Mosquito Control District</b>	A local government entity enabled through a voter-approved local or state legislative act to provide mosquito control services in a geographically defined area
<b>Mosquito counts</b>	Surveillance of mosquito populations using a variety of techniques ( <i>e.g.</i> , traps or landing rates); this term is usually used in reference to adult mosquitoes rather than immature ones
<b>Natular</b>	The trade name for a larvicide that includes the bacteria spinosid as its active ingredient



Attachment 1

Term	Definition
<b>Nuisance mosquito</b>	A term used to designate a mosquito that typically does not transmit a pathogen such as a virus; these mosquitoes are in contrast to disease-transmitting mosquitoes that are readily capable of transmitting a pathogen
<b>Pest resistance</b>	The situation in which mosquitoes are no longer killed by the standard dose of an insecticide or manage to avoid coming into contact with the insecticide
<b>Pyrethrum</b>	A biochemical derived from a chrysanthemum plant that contains insecticidal properties; typically used in mosquito control as an adulticide
<b>Rotary-wing aircraft</b>	Aircraft that use a rotary blade rather than wings; a helicopter is the most common example
<b>Rotational impoundment management</b>	A management technique common in saltmarsh impoundments along Florida's Indian River Lagoon where the impoundment is artificially flooded during part of the spring and summer to prevent mosquitoes from laying their eggs in the marsh and is opened for the remainder of the year through culvert pipes to provide a hydrological connection between the impounded marsh and adjacent estuary or lagoon
<b>Saint Louis encephalitis virus</b>	A virus most commonly transmitted by <i>Culex</i> mosquitoes that can affect the central nervous system when a human is infected
<b>Source reduction</b>	Refers to the elimination of habitats that can produce mosquitoes; ranges from the proper disposal of waste containers to the complicated management of impoundments
<b>Spinosid</b>	A naturally occurring bacteria that contains insecticidal properties; is commonly applied as a larvicide; Natular is a commercial product that uses spinosid as its active ingredient
<b>Sterile Insect Technique</b>	A method whereby male insects are sterilized by radiation or other means; when the sterilized male mates with the female insect, viable offspring are not produced
<b>Subcommittee on Managed Marshes</b>	An interagency committee created in 1986 by the Florida Legislature in Ch. 388, <i>Florida Statutes</i> , to promote the wise management of Florida's wetlands for the mutual benefit of mosquito control and environmental enhancement
<b>Ultra-low volume</b>	A technique to dispense extremely small droplets of insecticide; while historically used for adulticiding, in some instances the technique is now used for larviciding

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Term	Definition
<b>United States Department of Agriculture (USDA)</b>	Through its national Agricultural Research Service, the USDA participates in Florida mosquito control efforts largely with the Center for Medical, Agricultural and Veterinary Entomology, a laboratory in Gainesville, Florida, that conducts research on the biology and control of mosquitoes and other insects
<b>United States Environmental Protection Agency</b>	The federal agency that regulates mosquito control in Florida primarily through their approval and enforcement of chemical labels for insecticides
<b>Unmanned Aerial System (UAS)</b>	Aerial vehicles and associated equipment that do not carry a human operator and are remotely piloted or fly autonomously; drones are an example of a UAS
<b>Vector</b>	A living organism that transmits a pathogen (e.g., virus, plasmodium, nematode) from an infected animal to a human or another animal; mosquitoes are an example of a vector
<b>Vector surveillance</b>	Monitoring for vectors that can be accomplished in several ways (e.g., various types of traps or landing rates)
<b>Waste tires</b>	Vehicle tires that are no longer of value and that have been improperly disposed in a manner that allows water to collect in the tires; some species of mosquitoes (e.g., <i>Aedes aegypti</i> or <i>Aedes albopictus</i> ) lay their eggs in the standing water where the immature mosquitoes will develop to adulthood
<b>Water management</b>	In mosquito control, this term refers to a source reduction technique to minimize the production of mosquitoes in a particular aquatic habitat; the management of saltmarsh impoundments and some ditches are examples of water management projects
<b>West Nile virus (WNV)</b>	Introduced into the United States in New York around 2000, the virus is carried by birds and primarily transmitted by <i>Culex</i> mosquitoes; humans who contract the virus can develop a fever and other symptoms including headache, body aches, joint pains, and rash; most recover completely but symptoms can linger for weeks to months
<b>Yellow fly trap</b>	A sticky-type trap used to entangle yellow flies, a type of biting fly that occurs regularly in the Florida Panhandle, to reduce their population without insecticides



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Term	Definition
Zika virus	A virus that originated in the Zika region of Africa and is transmitted by the mosquitoes <i>Aedes aegypti</i> and <i>Aedes albopictus</i> ; humans who contract the virus can have symptoms similar to dengue such as fever, rash, headache, and joint pain; Zika passed from a pregnant woman to her fetus can result in birth defects including microcephaly and other brain abnormalities

Source: TBG work product.



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# INTEGRATED PEST MANAGEMENT SUMMARY

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September 2023

Prepared for  
**The Florida Legislature**

Prepared by  
**The Balmoral Group**  
165 Lincoln Avenue  
Winter Park, FL 32789

Term	Summary
<b>Integrated Pest Management</b>	<p>Most mosquito control programs use an Integrated Pest Management (IPM) approach to control mosquito populations, which targets the different stages of a mosquito’s life cycle with various prevention and control measures. IPM addresses eight areas. Surveillance of mosquito populations is an essential component of all IPM programs with chemical treatments based on the surveillance findings. IPM can also include source reduction (e.g., container disposal and water/impoundment management), larviciding and adulticiding (using ground and/or aerial treatments), biological and alternative controls, and disease surveillance. Research and education are also important components of IPM programs.</p>
<b>Mosquito Surveillance</b>	<p>The general approach to surveillance is to define area-specific problems with mosquitoes through the establishment of a mosquito surveillance program. The program assists in determining the types of mosquito control efforts needed in each area so that pesticide applications are used only when necessary. Service requests made to mosquito control programs serve as one means of surveillance. Other means for adult mosquito surveillance include monitoring the landing rates and counts of mosquitoes in traps to determine when and where they are most prevalent and observing the effects of adulticide, larvicide, and source reduction efforts. Immature mosquito surveillance is conducted by collecting eggs, larvae, and pupae. Surveillance may also include inventorying and mapping data and using emerging technologies such as geo-referenced maps, geographic information systems (GIS), smart traps (e.g., a trap with an electronic device that differentiates mosquitoes from other insects, counts them, and wirelessly transmits the results), and unmanned aerial vehicles.</p>
<b>Source Reduction</b>	<p>Source reduction, also known as physical or permanent control, is considered the most effective mosquito control technique and is accomplished by eliminating larval habitats in salt marshes, freshwater habitats, temporarily flooded locations, and containers.</p> <p>Current saltmarsh source reduction techniques in Florida include</p> <ul style="list-style-type: none"> <li>• construction of shallow ditches that enhance drainage and thus eliminate mosquito-producing sites and create connectivity among water bodies to allow larvivorous fish (fish that feed upon insect larvae) access to mosquito habitats; and</li> <li>• management of impoundments by maintaining a sheet of water across a saltmarsh to prevent mosquitoes from laying eggs on the soil; this achieves saltmarsh mosquito control with minimum insecticide use.</li> </ul>

Term	Summary
	<p>Source reduction is also conducted in freshwater habitats and is based on the principle that manipulating water levels in low-lying areas will eliminate or reduce the need for insecticide use. The primary strategy used is reducing the amount of standing water or reducing the length of time that water can stand in low areas following significant rainfall.</p> <p>Another important area of source reduction is through aquatic plant management, which can be accomplished using chemical, biological, or mechanical control methods. Waste tire management is also a significant activity for many mosquito control districts because the proliferation and accumulation of discarded tires throughout the state continues to create habitats highly favored by mosquitoes, and these tires can be costly and labor-intensive to remove. Removing any receptacles that can contain water is beneficial in controlling mosquitoes.</p>
<p><b>Larvicides and Larviciding</b></p>	<p>Larvicides are insecticides used to kill insects in the larval stage. Most mosquitoes spend three to five days of their life cycle in the larval stage when they are highly susceptible to predation and control efforts; therefore, well-planned and timed larviciding is important for efficient operations to save labor costs and reduce chemical use. This also requires understanding the local mosquito ecology and patterns of arbovirus transmission to select the appropriate control techniques. Equipment used for ground application of larvicide can include trucks with sprayers mounted on the front bumper, all-terrain vehicles (ATVs), boats, and various hand-held and backpack sprayers. Aerial application uses various devices such as nozzles and metered systems that are attached to fixed-wing or rotary-wing aircraft (i.e., helicopters).</p>
<p><b>Adulticides and Adulticiding</b></p>	<p>Adulticides are insecticides used to kill adult mosquitoes. The majority of adulticiding in Florida is conducted using ultra-low volume (ULV) spraying during which an aerosol spray is released by specialized spray equipment mounted in aircraft, on the back of trucks or ATVs, or carried by hand or in a backpack. The spray drifts through the air and is effective only while it remains airborne; thus, having a short-term effect only. Where a longer-term effect is needed, residual sprays are applied to barriers or surfaces such as a stadium, park, or resident’s yard and are often applied with a modified vehicle-mounted hydraulic sprayer. The mosquito must land on the surface where the residual insecticide has been deposited for it to be effective. Equipment operators must be properly trained in equipment maintenance and adulticide application because timing, targets, and thresholds for the application are based on numerous factors and can be challenging to establish.</p>



Term	Summary
<b>Biological and Alternative Control</b>	<p>Biological control agents include microbial control agents (e.g., bacteria, such as <i>Bacillus thuringiensis</i> or <i>Bt</i>, that can be sprayed over waterbodies to kill developing mosquito larvae), invertebrate arthropod mosquito predators (e.g., small aquatic crustaceans, such as copepods, that eat insect larvae), and vertebrate mosquito predators (e.g., larvivorous fish and birds). It is common for mosquito control districts in Florida to provide larvivorous fish as a service to the public. For example, Collier Mosquito Control District provides <i>Gambusia</i> mosquitofish to Collier County residents to release in standing water on their property to manage mosquito larvae.</p> <p>Alternative control methods include the sterile insect technique, trapping, repellents, and bug zappers.</p>
<b>Disease surveillance</b>	<p>Because of its geographic location and proximity to the Caribbean, Florida is vulnerable to the introduction of new vector-borne pathogens as occurred with the introduction of Zika virus in 2016 in South Florida. Disease surveillance includes monitoring for human cases of mosquito-borne arboviral diseases including dengue, chikungunya, West Nile virus, St. Louis encephalitis, and others. In addition, many mosquito control programs conduct regular blood testing of sentinel chickens. The state established the Florida Sentinel Chicken Arboviral Surveillance Program (FSCASP) in 1977 to provide laboratory services to local agencies to monitor the transmission of certain vector-borne diseases. The services are primarily used by mosquito control programs around the state. The programs submit sentinel chicken blood samples to the Florida Department of Health’s Bureau of Laboratories in Tampa, where an antibody test is performed to identify if the chicken has been exposed to one of several viruses. Results are provided to participating agencies on a weekly basis.</p>
<b>Mosquito Control Research</b>	<p>Mosquito control programs must base their activities on sound and up-to-date scientific research in order to provide safe, effective, and efficient mosquito control services. Research that is either conducted or reviewed by mosquito control programs is essential to developing and implementing new and innovative methods and technologies. Numerous federal, state, and other entities conduct mosquito control research, as do several mosquito control districts in this state.</p>
<b>Outreach and Education</b>	<p>Increasing the public’s understanding of the work of the mosquito control districts is an important component of overall mosquito control efforts. Public education helps people understand what is involved in mosquito control, the biology of mosquitoes, ecological issues, arboviral disease transmission, and actions that can be taken to prevent mosquito bites and reduce mosquitoes in yards and</p>

Attachment 2

Term	Summary
	neighborhoods. When adequately informed, the public is in a better position to protect themselves and support mosquito control efforts. This state’s mosquito control programs and other entities, such as the Florida Department of Agriculture and Consumer Services, Florida Mosquito Control Association, and the University of Florida’s, Institute of Food and Agricultural Sciences-Florida Medical Entomology Laboratory, dedicate significant efforts toward education.

Source: TBG work product.



**Anastasia Mosquito Control District**  
**Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
<b>Income</b>				
360 · Taxes	47,873	7,521,090	7,521,090	
386 · Interest Earned	40,071	346,291	306,220	40,071
<b>390 · Grants</b>				
391.2 · Grant Money, Other	86,631	317,078	290,000	27,078
<b>Total 390 · Grants</b>	<b>86,631</b>	<b>317,078</b>	<b>290,000</b>	<b>27,078</b>
<b>392 · Miscellaneous</b>				
392.1 · Workshops	-	12,039		12,039
392.3 · Salvage	-	44	8,000	(7,956)
<b>392.5 · Other</b>				
392.6 · Dormatory Rent	400	6,113	12,606	(6,493)
392.5 · Other - Other	-	91,342	88,531	2,811
<b>Total 392.5 · Other</b>	<b>400</b>	<b>97,455</b>	<b>101,137</b>	<b>(3,682)</b>
<b>Total 392 · Miscellaneous</b>	<b>400</b>	<b>109,537</b>	<b>109,137</b>	<b>400</b>
<b>Total Income</b>	<b>\$ 174,975</b>	<b>\$ 8,293,997</b>	<b>\$ 8,226,447</b>	<b>\$ 67,550</b>
<b>Expenditures</b>				
<b>405 · Personal Services</b>				
410 · Executive Salaries	4,000	25,399	24,000	1,399
<b>412 · Full-Time Employees</b>				
414 · Salaries & Wages	211,292	1,474,572	1,760,926	(286,354)
415 · Full-Time Admin. Leave	-	26,525		26,525
416 · Overtime	3,526	23,147	10,000	13,147
418 · Sick Leave	4,506	62,281	98,487	(36,206)
420 · Annual Leave	5,282	95,709	125,347	(29,638)
421 · Holiday Pay	-	110,325	111,917	(1,592)
423 · Annual Leave/ SL Payout	-	-	25,000	(25,000)
424 · Reserves for Promotions/Oth	-	-	20,000	(20,000)
425 · Internal Recognition	-	7	1,500	(1,493)
<b>Total 412 · Full-Time Employees</b>	<b>224,606</b>	<b>1,792,565</b>	<b>2,153,177</b>	<b>(360,612)</b>
<b>426 · Seasonal Employees</b>				
428 · Salaries & Wages	37,857	154,241	233,086	(78,845)
428.4 · Seasonal Annual Leave	244	668		668
<b>429 · Seasonal Holiday Pay</b>				
429.1 · Seasonal Admin. Leave	-	2,295		
429 · Seasonal Holiday Pay - O	-	6,278		6,278
<b>Total 429 · Seasonal Holiday Pay</b>		<b>8,573</b>		<b>8,573</b>
430 · Overtime	2,035	6,017		6,017
<b>Total 426 · Seasonal Employees</b>	<b>40,137</b>	<b>169,499</b>	<b>233,086</b>	<b>(63,587)</b>
405 · Personal Services - Other			96,000	(96,000)
<b>Total 405 · Personal Services</b>	<b>268,743</b>	<b>1,987,463</b>	<b>2,506,263</b>	<b>(518,800)</b>
<b>445 · Personal Service Benefits</b>				
448 · FICA	19,961	146,225	185,275	(39,050)

**Anastasia Mosquito Control District  
Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
450 · Retirement	37,759	272,936	256,072	16,864
452 · Life/Health/Dental	34,092	619,537	744,345	(124,808)
454 · Workers' Comp Ins	-	43,706	67,920	(24,214)
455 · Employee Education	-	6,418	30,000	(23,582)
456 · Unemployment Comp	-	-	10,000	(10,000)
445 · Personal Service Benefits - Other	-	-	10,385	(10,385)
<b>Total 445 · Personal Service Benefits</b>	<b>91,812</b>	<b>1,088,823</b>	<b>1,303,997</b>	<b>(215,175)</b>
461 · Operating Expenses	-	-		
462 · Property Appraiser	-	114,172	60,000	54,172
464 · Tax Collector	957	150,971	95,000	55,971
466 · Attorney	1,500	13,234	24,000	(10,766)
468 · Medical Exams	-	-		
468.1 · Pre-Employment Admin.	80	479		479
468 · Medical Exams - Other	72	952	1,300	(348)
<b>Total 468 · Medical Exams</b>	<b>152</b>	<b>1,431</b>	<b>1,300</b>	<b>131</b>
470 · Audit	-	13,300	9,000	4,300
474 · Other Contract Svs	-	-		
478 · Cleaning Service	600	11,740	15,000	(3,260)
482.1 · CopyFax (prev. Aztec)	190	3,023	2,000	1,023
488 · Data Hosting	-	-	5,400	(5,400)
489 · MACTEC Engineering	-	2,726		2,726
489.0 · Software Subscriptions	-	6,287	18,000	(11,713)
489.3 · Towing Services	100	100	1,000	(900)
489.4 · Pest Control	15	650	2,000	(1,350)
489.5 · Good Laboratory Practice (C	-	-	12,000	(12,000)
489.6 · Adjunct Positions, 4 @ \$5,0l	-	11,749	25,000	(13,251)
489.7 · District Program Review	-	-	12,000	(12,000)
490.5 · Database Maint./ Upgrades	-	-		
490.55 · Drone/ Mapping Softw	-	-	10,000	(10,000)
490.5 · Database Maint./ Upgra	-	12,000	20,000	(8,000)
<b>Total 490.5 · Database Maint./ Upgra</b>	<b>-</b>	<b>12,000</b>	<b>30,000</b>	<b>(18,000)</b>
494 · Website Maintenance	-	-	6,000	(6,000)
556 · Uniform Service	674	15,971	20,000	(4,029)
560 · Bottled Water	-	96	1,700	(1,604)
562 · Waste Tires	35	198	5,000	(4,802)
474 · Other Contract Svs - Other	1,219	16,973	16,245	728
<b>Total 474 · Other Contract Svs</b>	<b>2,833</b>	<b>81,513</b>	<b>171,345</b>	<b>(89,832)</b>
564 · Aerial OPS	-	-	200,000	(200,000)
461 · Operating Expenses - Other	20	1,342	8,064	(6,722)
<b>Total 461 · Operating Expenses</b>	<b>5,462</b>	<b>375,964</b>	<b>568,709</b>	<b>(192,745)</b>
572 · Travel & Per Diem	-	-		
573 · SOVE Meetings	-	4,033	5,868	(1,835)
574 · AMCA - Meetings	-	18,234	19,715	(1,481)

**Anastasia Mosquito Control District**  
**Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
575 · AMCD Events	-	1,271	2,000	(729)
576 · FMCA - Meetings	425	18,035	10,140	7,895
578 · Training, Other	-	1,419	8,000	(6,581)
579 · Travel Associated w/ Training	-	5,281	15,000	(9,719)
572 · Travel & Per Diem - Other	1,426	6,733	26,000	(19,267)
<b>Total 572 · Travel &amp; Per Diem</b>	<b>1,851</b>	<b>55,005</b>	<b>86,723</b>	<b>(31,718)</b>
580 · Telephone/Commun	1,508	17,968	30,575	(12,606)
582 · Freight Service	110	2,698	5,500	(2,802)
584 · Utility Service	5,692	51,070	76,216	(25,147)
586 · Rentals\Leases	-	-	1,000	(1,000)
588 · Fleet/Prop/Liab Insurance	-	-		
592 · Above Ground Tank Ins	-	997	1,000	(3)
593 · Aerial Insurance	-	44,619	72,000	(27,381)
588 · Fleet/Prop/Liab Insurance - Other	-	164,916	159,669	5,247
<b>Total 588 · Fleet/Prop/Liab Insurance</b>	<b>-</b>	<b>210,532</b>	<b>232,669</b>	<b>(22,137)</b>
605 · Repairs & Maintenance	-	-		
606 · Outside Maintenance	-	-		
608 · Buildings/Grounds	8,689	35,917	16,000	19,917
610 · Trucks	-	3,355	3,000	355
614 · Misc. Equipment	-	674	1,500	(826)
616 · Boats	-	221	250	(29)
618 · Heavy Equipment	-	484	250	234
620 · Office Equipment	-	-	1,000	(1,000)
622 · Computers	-	-	5,000	(5,000)
624 · Telephones	-	489	1,000	(511)
626 · Other	-	42	1,000	(958)
606 · Outside Maintenance - Other	5	218		
<b>Total 606 · Outside Maintenance</b>	<b>8,694</b>	<b>41,400</b>	<b>29,000</b>	<b>12,400</b>
627 · Aerial Maintenance Costs	-	-		
627.2 · Avionics Repair (radios)	1,847	1,847	5,000	(3,153)
627.3 · Aircraft Supplies/ Parts	543	3,266	5,000	(1,734)
627.4 · Aircraft Spray System Maint	77	527	3,000	(2,473)
627.7 · Night Vision Goggles (semi-	-	416		416
627.8 · Misc. Aerial Tools & Equipm	-	461		461
627 · Aerial Maintenance Costs - Ot	3,420	41,890	99,150	(57,260)
<b>Total 627 · Aerial Maintenance Costs</b>	<b>5,887</b>	<b>48,406</b>	<b>112,150</b>	<b>(63,744)</b>
635 · Inside Maintenance	-	-		
636 · Maintenance of Equipment- O	916	8,270	10,000	(1,730)
638 · Trucks	863	3,585	10,000	(6,415)
642 · Boats	-	324	500	(176)
644 · Heavy Equipment	-	60	5,000	(4,940)
646 · Misc. Equipment	-	562		562
648 · Batteries	-	418	3,000	(2,582)

**Anastasia Mosquito Control District  
Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
650 · Tires	-	1,899	5,000	(3,101)
652 · Welding Supplies	-	1,721	1,000	721
654 · Cleaning Supplies	368	3,998	1,500	2,498
655 · Minor Structural Improv & Ma	-	635	10,000	(9,365)
657 · Materials for Const. & Maint.	-	911	6,000	(5,089)
658 · Inside Maintenance- Other	-	345	4,000	(3,655)
659 · Computers	-	834	3,000	(2,166)
635 · Inside Maintenance - Other	-	1,477		1,477
<b>Total 635 · Inside Maintenance</b>	<b>2,147</b>	<b>25,040</b>	<b>59,000</b>	<b>(33,960)</b>
605 · Repairs & Maintenance - Other	-	(11)		
<b>Total 605 · Repairs &amp; Maintenance</b>	<b>16,728</b>	<b>114,835</b>	<b>200,150</b>	<b>(85,315)</b>
663 · Printing/ Reproduction	-	-		
664 · Printing	-	-	500	(500)
663 · Printing/ Reproduction - Other	-	164		
<b>Total 663 · Printing/ Reproduction</b>	<b>-</b>	<b>164</b>	<b>500</b>	<b>(336)</b>
667 · Public Promotional Expense	-	-		
668 · Avertising/ Education	-	-		
668.1b · Atlas Pen & Pencil	-	512		
668 · Avertising/ Education - Other	90	4,116	20,000	(15,884)
<b>Total 668 · Avertising/ Education</b>	<b>90</b>	<b>4,628</b>	<b>20,000</b>	<b>(15,372)</b>
667 · Public Promotional Expense - Oth	1,668	2,324		2,324
<b>Total 667 · Public Promotional Expense</b>	<b>1,758</b>	<b>6,952</b>	<b>20,000</b>	<b>(13,048)</b>
673 · Other Current Charges	-	-		
66900 · Reconciliation Discrepancies	-	1		1
676 · Advertising, Other	-	-		
676.1 · Legal Notices	-	56	2,000	(1,944)
676.2 · Public Notices	-	-	1,000	(1,000)
676.3 · Position Openings	-	100	1,000	(900)
676 · Advertising, Other - Other	-	60		60
<b>Total 676 · Advertising, Other</b>	<b>-</b>	<b>216</b>	<b>4,000</b>	<b>(3,784)</b>
677 · Bank Charges	274	3,671	1,500	2,171
678 · Registration/Tags	-	-	250	(250)
680 · State Community Service Fee	-	-	300	(300)
682 · Tank Registrations	-	250	275	(25)
673 · Other Current Charges - Other	-	222		222
<b>Total 673 · Other Current Charges</b>	<b>274</b>	<b>4,360</b>	<b>6,325</b>	<b>(1,965)</b>
693 · Office Supplies	-	-		
694 · Office Supplies & Expense	-	-		
694.1 · Software	5	1,837	3,000	(1,163)
694 · Office Supplies & Expense - C	3,540	18,883	26,000	(7,117)
<b>Total 694 · Office Supplies &amp; Expense</b>	<b>3,545</b>	<b>20,720</b>	<b>29,000</b>	<b>(8,280)</b>
695 · Commissioner Supplies	500	5,500	6,000	(500)
693 · Office Supplies - Other	284	284		284

**Anastasia Mosquito Control District  
Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
Total 693 · Office Supplies	4,329	26,504	35,000	(8,496)
696 · Protective Clothing	-	1,826	3,500	(1,674)
698 · Misc. Supplies	-	-		
698.2 · Phones	-	-	1,500	(1,500)
698.3 · Phones, Parts & Repairs	-	-	1,000	(1,000)
698.4 · Sunshine Fund	(48)	(325)	500	(825)
699 · Other Misc. Supplies	-	754	2,400	(1,646)
700 · Chicken/ Surveillance Supplies	1,469	9,449	8,000	1,449
702 · Entomology Supplies	-	-		
702.2 · Molecular Lab	16,641	50,643	56,540	(5,897)
702 · Entomology Supplies - Other	(101)	80,520	114,806	(34,285)
<b>Total 702 · Entomology Supplies</b>	<b>16,540</b>	<b>131,163</b>	<b>171,346</b>	<b>(40,182)</b>
704 · Safety Equip/Supplies/Checks	-	-		
704.1 · Safety Inspect (Fire, Alarm, I	-	6,534		6,534
704.2 · FDEP Annual Fuel System C	-	513	1,025	(513)
704.3 · FDEP Annual Generator Tan	-	1,798	1,175	623
704.4 · FDEP Fuel Syst. Repairs	-	-	4,100	(4,100)
704 · Safety Equip/Supplies/Checks	-	11,630	18,500	(6,870)
<b>Total 704 · Safety Equip/Supplies/Check</b>	<b>-</b>	<b>20,475</b>	<b>24,800</b>	<b>(4,325)</b>
698 · Misc. Supplies - Other	664	1,866	4,128	(2,262)
<b>Total 698 · Misc. Supplies</b>	<b>18,625</b>	<b>163,382</b>	<b>213,674</b>	<b>(50,291)</b>
708 · Tools/Implements	-	-		
708.3 · Hand Tools (Foggers, etc.)	-	300		300
708 · Tools/Implements - Other	1,016	2,481	5,000	(2,519)
<b>Total 708 · Tools/Implements</b>	<b>1,016</b>	<b>2,781</b>	<b>5,000</b>	<b>(2,219)</b>
709 · Publications & Dues	-	-		
710 · Books/Pub/Sub/Mem	-	4,956	22,500	(17,544)
712 · FMCA Corp Dues	-	7,500	6,000	1,500
714 · FMCA Emp Dues	-	-	1,225	(1,225)
716 · AMCA Dues	658	9,113	1,560	7,553
717 · FICPA Dues	-	-	275	(275)
718 · AHMP/ACHMM Dues	-	-	100	(100)
719 · SOVE Dues	-	500	580	(80)
709 · Publications & Dues - Other	-	5,996	7,000	(1,004)
<b>Total 709 · Publications &amp; Dues</b>	<b>658</b>	<b>28,065</b>	<b>39,240</b>	<b>(11,175)</b>
720 · Training	-	-		
720.1 · Specified Purpose -Training	-	149		
720 · Training - Other	965	39,110	64,291	(25,181)
<b>Total 720 · Training</b>	<b>965</b>	<b>39,259</b>	<b>64,291</b>	<b>(25,032)</b>
723 · Gas, Oil & Lube	-	-		
724 · Gasoline	6,697	48,795	108,000	(59,205)
726 · Hydraulic Oil	-	-	500	(500)
728 · Transmission Fluid	-	-	120	(120)



**Anastasia Mosquito Control District  
Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
730 · Diesel Fuel	-	152	500	(348)
731 · Aerial Fuel (Jet A)	-	454	25,000	(24,546)
732 · Motor Oil	-	-	2,880	(2,880)
723 · Gas, Oil & Lube - Other	233	895		895
<b>Total 723 · Gas, Oil &amp; Lube</b>	<b>6,930</b>	<b>50,296</b>	<b>137,000</b>	<b>(86,704)</b>
741 · Chemicals/Solvents	-	-		
744 · Adulicide Products	-	-		
758 · Aqualeur 20-20	-	-	62,500	(62,500)
744 · Adulicide Products - Other	-	103,633	106,080	(2,447)
<b>Total 744 · Adulicide Products</b>	<b>-</b>	<b>103,633</b>	<b>168,580</b>	<b>(64,947)</b>
745 · NALED	-	198,218	166,320	31,898
746 · BTI Granules	-	2,123	3,125	(1,002)
753 · Altosid WSP	-	-	30,000	(30,000)
754 · Altosid Xrg Granules	-	-		
754.1 · Altosid XR	-	-	3,500	(3,500)
754 · Altosid Xrg Granules - Other	-	155,956	230,000	(74,044)
<b>Total 754 · Altosid Xrg Granules</b>	<b>-</b>	<b>155,956</b>	<b>233,500</b>	<b>(77,544)</b>
755 · Oil (Coco Bear)	-	-	5,060	(5,060)
756 · Chemicals/ Solvents- Other	5,024	5,024		5,024
757 · Vectobac 12AS	-	-	36,500	(36,500)
759 · Natular DT	-	-	420	(420)
760 · Sustain MGB	-	-	96,000	(96,000)
741 · Chemicals/Solvents - Other	7,538	32,482		
<b>Total 741 · Chemicals/Solvents</b>	<b>12,562</b>	<b>497,436</b>	<b>739,505</b>	<b>(242,069)</b>
900 · Capital Outlay	-	-		
914.07 · Scanner/Card Reader/ Comput	-	11,258	14,512	(3,254)
924.07 · Laptop w/ docking capabil.	-	-	8,000	(8,000)
945 · LAND & FACILITY	-	-		
945.005 · SIT Building	-	-		
945.051 · SIT Bldg.- Pupae Sep	-	114,415	120,000	(5,585)
945.052 · SIT Bldg._Larval Fee	-	8,365	45,000	(36,635)
945.053 · SIT Bldg.-Larval Rear	-	189,000	80,000	109,000
945.110 · SIT Bldg., Plan Desig	187,853	1,916,701	2,535,118	(618,417)
<b>Total 945.005 · SIT Building</b>	<b>187,853</b>	<b>2,228,481</b>	<b>2,780,118</b>	<b>(551,637)</b>
945.007 · Capital Replacements/ Up	-	23,911	30,000	(6,089)
945.010 · Construct. EDU Cntr (Bldg	-	-		
945.016 · Construct EDU Exter.	-	-		-
945.010 · Construct. EDU Cntr	68,168	688,947	504,835	184,112
<b>Total 945.010 · Construct. EDU Cntr</b>	<b>68,168</b>	<b>688,947</b>	<b>504,835</b>	<b>184,112</b>
945.015 · Construct EDU Display(BI	250	119,275	200,000	(80,725)
945.800 · BUILDING 800	-	-		
<b>Total 945 · LAND &amp; FACILITY</b>	<b>256,271</b>	<b>3,060,614</b>	<b>3,514,953</b>	<b>(454,339)</b>
950 · Machinery and Equipment	-	-		

**Anastasia Mosquito Control District  
Consolidated Financial Statement-Local Fund August-YTD 2022-2023**

	Aug 23	Oct '22 - Aug 23	Budget	\$ Over/(Under) Budget
938 · I-Pads/ Computers	-	-		
938.1 · 3-D Printer	-	2,265	2,500	(235)
938.2 · 3-D Sonic Anemometer	-	-	4,000	(4,000)
<b>Total 938 · I-Pads/ Computers</b>	-	2,265	6,500	(4,235)
938.3 · Self-Propelled Articulat. Boc	-	55,030	80,000	(24,970)
949.07 · AVIATION	-	-		
949.073 · AGNAV,Install	-	-	15,000	(15,000)
949.090 · Drone	62,688	62,688	135,000	(72,313)
949.091 · Tail Rotor Hub O/H	-	-	9,000	(9,000)
949.093 · Stainless Steel Tank .	-	-	20,000	(20,000)
949.094 · Atomizer	-	-	6,000	(6,000)
949.095 · Vortex Airboat Granu	-	-	5,000	(5,000)
949.096 · Ka Flex driveshaft Ov	-	-	16,000	(16,000)
949.07 · AVIATION - Other	32,194	86,338		86,338
<b>Total 949.07 · AVIATION</b>	94,881	149,026	206,000	(56,974)
950.005 · ATV/ UTV	-	12,528	20,000	(7,472)
950.01 · Droplet Mach/ Fluorr Drop	-	-	26,317	(26,317)
950.011 · Blower/ Motor (2 @ \$3,000)	-	-	6,000	(6,000)
950.017 · Grant Funded- Equip./ So	-	-	5,000	(5,000)
950.04 · Vehicle Lift Base	-	8,720	10,000	(1,280)
950.34 · Computers	-	8,719	10,000	(1,281)
950.35 · Twister Backpack Sprayers	-	3,556	5,400	(1,844)
950.36 · Handheld Foggers (4 @ \$2,000)	-	6,962	8,000	(1,038)
950.411 · Monitor V (2 @ \$10,000)	-	-	20,000	(20,000)
950 · Machinery and Equipment - O	21,599	36,186		36,186
<b>Total 950 · Machinery and Equipment</b>	116,480	282,992	403,217	(120,225)
955 · Vehicles	-	-		
955.11 · Pickup Truck 4 x4 1/2 Ton-	94,517	94,517	100,000	(5,483)
<b>Total 955 · Vehicles</b>	94,517	94,517	100,000	(5,483)
<b>Total 900 · Capital Outlay</b>	467,268	3,449,381	4,040,682	(591,301)
<b>Total Expenditures</b>	<b>\$ 906,291</b>	<b>\$ 8,174,763</b>	<b>\$ 10,316,518</b>	<b>\$ (2,141,756)</b>
<b>Surplus/(Deficit)</b>	<b>\$ (731,316)</b>	<b>\$ 119,234</b>	<b>\$ (2,090,071)</b>	<b>\$ 2,209,305</b>