AGENDA
UTILITIES COMMISSION MEETING

THURSDAY, MARCH 9, 2023 | 5:30 P.M. | 8500 PUBLIC WORKS DRIVE

I. Call Meeting to Order – Chairman Schornick

II. Determination of Quorum

III. Chairperson's Report

IV. Approval of Minutes – February 9, 2023

V. Staff Reports

		Time	
a.	Director of Utilities Update		
b.	Cash Report and Budget Update (Ana Davis)	5 minutes	5
c.	Utility Customer Service Report (Ana Davis)	5 minutes	9
d.	Electric Operations Report (James Bower)	5 minutes	10
e.	Water & Sewer Operations Report (Michael Nicholson)	5 minutes	14
f.	Purchase Orders Approved – February 2023		19

VI. New Business

None

VII. Old Business

None

VIII. Closed Session

None

IX. Adjournment of Meeting

DISTRIBUTION:

JAMES SCHORNICK, CHAIRMAN
THERESA COATES. ELLIS, COUNCILMEMBER
MASON HOLLCROFT, COMMISSIONER
JEFFREY MCWHIRT, COMMISSIONER
KELSEY RAINVILLE, COMMISSIONER
STEPHEN SILBERSTEIN, COMMISSIONER
COURTNEY TOLSON, COMMISSIONER
W. PATRICK PATE, CITY MANAGER
BRYAN FOSTER, DEPUTY CITY MANAGER
TONY DAWOOD, DIRECTOR OF UTILITIES
VACANT, ASSISTANT DIR ELECTIC
ANA DAVIS, UTILITIES SERVICES MANAGER
MICHAEL NICHOLSON, ASSISTANT DIR W&S
VACANT, UTIL FINANCE MANAGER
FILE

UTILITY COMMISSION
REGULAR MEETING
MINUTES

Thursday, February 9, 2023
8500 Public Works Drive, Manassas, VA 20110

I. CALL MEETING TO ORDER

James Schornick, Chairman, called the meeting to order at 5:30 p.m.

II. DETERMINATION OF QUORUM

MEMBERS PRESENT: Chairman James Schornick, Councilmember Theresa Coates Ellis, Commissioner Mason Hollcroft, Commissioner Jeffrey McWhirt, Commissioner Kelsey Rainville, Commissioner Stephen Silberstein, Commissioner Courtney Tolson

MEMBERS ABSENT: None

STAFF PRESENT: Director of Utilities Tony Dawood, Administrative Coordinator Daralyn Baker, Utilities Finance Manager Glenn Simpson, Utilities Services Manager Ana Davis, Assistant Director of Water & Sewer Michael Nicholson, Deputy City Manager Bryan Foster

STAFF ABSENT: None

GUESTS PRESENT: None

III. CHAIRPERSON'S TIME

There was no Chairperson's update this month.

IV. APPROVAL OF MINUTES – January 12, 2023

MOTION: Commissioner Hollcroft made the motion to approve the January 12, 2023 minutes as submitted.

SECOND: Commissioner Rainville **VOTE:** Unanimous

V. STAFF REPORTS

A. DIRECTOR'S UPDATE

Mr. Dawood informed the Commission that Glenn Simpson, Utilities Finance Director, will be retiring as of March 3, 2023.

The threats on Baltimore area substations has raised awareness on the security of our electric substations. Staff has been working to ensure security, e.g., cameras, locking gates and investigating other measures.

B. CASH REPORT AND BUDGET UPDATE

Glenn Simpson, Utilities Finance Manager, presented the Cash Report for the month of January. The Total Unrestricted Utility Operating Cash as of February 1, 2023 was $20,473,298.30 and reflects the VMEA payment of $2,944,713.99 made on January 18, 2023.

C. CUSTOMER SERVICE REPORT

Ana Davis, Utilities Services Manager, presented the January Customer Service Report. Ms. Davis reported there were 17,111 accounts billed throughout the month of January. Total revenue billed was $7,001,767.17 and revenue collected was $7,805,832.18. The City wrote off $11,262.39 this month and collected $560.35 from in-house, resulting in a net collection of $10,702.04.

D. ELECTRIC OPERATIONS REPORT

Tony Dawood, Director of Utilities, reported that there were 7 (seven) outages during the month of January. Three (3) outages were out of Point of Woods Substation, two (2) were out of Airport Substation, one (1) out of Prince William Substation, and one (1) out of Battery Heights Substation.

The December VMEA billing was $2,944,713 ($0.772 kwh). The City coincident peak for the month of January occurred on January 11, 2023 for a peak of 56.0 MW. The Dominion Power peak was 17,756 MW.

Mr. Dawood also reported on the following CIP Projects and their status:

CIP Project and Description	Status
E30 – Underground Cable Replacement	Crews have started installing cable on Silver Maple Area. Cannon Ridge area has conduit installation complete and work began installing cable in August 2022. Conduit installation will begin next week in the Weems/Jackson/Stonewall area.
E33 – Overhead to Underground Relocation (Electric Reliability)	Longstreet Drive from Grant to Portner is in design.
E34 – LED Streetlights	Currently working on neighborhood collector streets.

E. WATER AND SEWER OPERATIONS REPORT

Michael Nicholson, Assistant Director of Water & Sewer, presented the Water & Sewer Operations Report for the month of January. There were two (2) water main breaks and two (2) sewer blockages in January.

Mr. Nicholson also reported on the following CIP Projects and their status:

CIP Project and Description	Status
W-42 – 24" Transmission Main Replacement	Phase VI-A is under construction. Contractor mobilized and will be scheduling the start of the waterline work in the next few weeks. Staff notified of 2.4 million dollars of Stem Grant to be used for Phase IV. Phase V has 100% design plans received.
W-47 – Finished Water Capacity Increase	Project to bid in January 2023. Received approved plans from PWC.
W-50 – Main Replacement Looping	Longstreet Drive – design at 90%. Bragg Lane – Design at 100%. Bid awarded to Crown Construction. Pipe should be completed January 2023. Park Avenue – ready to start Park Street – almost complete
W-65 – Clear Well Addition & Roof Replacement	Tanks is currently under roof, finish coats to be applied this month.
W-70 – Water Plant Improvements FY18	Replacement of flocculator paddles is in progress. Replaced valves and actuator controls on pulsator.

F. PURCHASE ORDERS APPROVED – JANUARY 2023

Project	Company	Amount
Portable pressure data logger	Ferguson Enterprises, Inc	$8,285
Two sewer lift station pumps	Freemire & Assoc Inc	$7,324
New roof for gas turbine building	Simpson Unlimited	$19,900
Street lights for Grant Avenue	Anixter, Inc	$255,377

~~VI. NEW BUSINESS~~

G. FY24 PRELIMINARY OPERATING BUDGET

Glenn Simpson, Utilities Finance Manager, presented the FY24 operating budget to the Commission. A 4% increase in electric in recommended. Water and Sewer will not have a recommended rate increase this year.

MOTION: Commissioner Hollcroft made the motion to approve the FY24 operating budget as presented.

SECOND: Commissioner McWhirt **VOTE:** Unanimous

VII. OLD BUSINESS

VIII. CLOSED SESSION

IX. ADJOURNMENT OF MEETING

There being no further business; a motion was made, second and carried unanimously to adjourn the meeting. Chairman Schornick adjourned the regular meeting at 6:30 p.m.

City of Manassas
Utilities Fund Cash

Fund 520-Sewer Fund	3/1/2023	3/1/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 2,549,932.72	$ 4,560,599.96	$ 6,327,078.06	$ 5,226,353.65	$ 3,382,508.84	$ 13,803,161.75	$ 6,396,925.89	$ 6,162,325.75
Investments	-	-	-	-	-	-	-	-
Maintenance Reserve	-	-	-	-	-	-	-	-
Total Unrestricted Cash & Investments	$ 2,549,932.72	$ 4,560,599.96	$ 6,327,078.06	$ 5,226,353.65	$ 3,382,508.84	$ 13,803,161.75	$ 6,396,925.89	$ 6,162,325.75
Rate Stabilization Fund	$ 2,931,638.33	$ 2,681,427.83	$ 2,681,427.83	$ 2,681,427.83	$ 2,077,492.08	$ 1,571,858.08	$ 620,958.85	$ 2,083,778.85
Investments Restricted	9,816,784.71	8,566,015.11	8,579,890.70	8,560,857.05	8,673,820.60	7,985,357.07	6,802,680.91	6,691,656.26
Capital Projects Fund	8,266,148.08	7,915,961.44	7,903,149.67	5,163,929.62	4,337,820.18	2,516,771.94	2,021,102.00	1,935,204.70
Total Restricted Investments & Capital	$ 21,014,571.12	$ 19,163,404.38	$ 19,164,468.20	$ 16,406,214.50	$ 15,089,132.86	$ 12,073,987.09	$ 9,444,741.76	$ 10,710,639.81
Total Cash, Investments & Capital	**$ 23,564,503.84**	**$ 23,724,004.34**	**$ 25,491,546.26**	**$ 21,632,568.15**	**$ 18,471,641.70**	**$ 25,877,148.84**	**$ 15,841,667.65**	**$ 16,872,965.56**
UOSA Quarterly Payment								

Fund 530-Water Fund	3/1/2023	3/1/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 666,218.25	$ 1,140,146.37	$ 9,051,348.29	$ 2,667,547.13	$ 2,145,377.16	$ 2,170,209.32	$ 1,603,339.90	$ 4,234,741.03
Investments	903,011.78	884,396.47	885,487.54	883,990.91	882,373.00	866,400.30	840,363.72	832,553.32
Maintenance Reserve	879,231.37	861,184.78	862,247.21	860,789.83	859,213.70	844,031.91	818,646.63	810,240.28
Total Unrestricted Cash & Investments	$ 2,448,461.40	$ 2,885,727.62	$ 10,799,083.04	$ 4,412,327.87	$ 3,886,963.86	$ 3,880,641.53	$ 3,262,350.25	$ 5,877,534.63
Investments Restricted	$ 8,111,604.26	$ 7,355,675.25	$ 7,364,749.70	$ 7,352,301.95	$ 6,796,909.16	$ 6,209,103.63	$ 5,281,199.84	$ 5,231,788.12
Capital Projects Fund	22,922,735.27	34,701,312.89	26,340,712.58	18,182,396.84	24,102,503.99	26,990,380.43	11,018,828.21	8,177,534.82
Total Restricted Investments & Capital	$ 31,034,339.53	$ 42,056,988.14	$ 33,705,462.28	$ 25,534,698.79	$ 30,899,413.15	$ 33,199,484.06	$ 16,300,028.05	$ 13,409,322.94
Total Cash, Investments & Capital	**$ 33,482,800.93**	**$ 44,942,715.76**	**$ 44,504,545.32**	**$ 29,947,026.66**	**$ 34,786,377.01**	**$ 37,080,125.59**	**$ 19,562,378.30**	**$ 19,286,857.57**

Fund 540-Electric Fund	3/1/2023	3/1/2022	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018	6/30/2017
Equity In Pooled Cash	$ 15,838,806.21	$ 15,998,935.28	$ 17,513,019.38	$ 18,879,437.93	$ 18,274,493.75	$ 15,860,623.05	$ 13,877,745.17	$ 11,860,729.32
Investments	426,706.65	417,948.33	418,463.95	417,756.64	416,991.71	409,623.72	397,303.78	391,450.01
Maintenance Reserve	609,804.81	597,288.33	598,025.18	597,014.41	595,921.27	585,391.69	567,785.31	563,962.34
Total Unrestricted Cash & Investments	$ 16,875,317.67	$ 17,014,171.94	$ 18,529,508.51	$ 19,894,208.98	$ 19,287,406.73	$ 16,855,638.46	$ 14,842,834.26	$ 12,816,141.67
Investments Restricted	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Projects Fund	8,864,029.68	7,826,318.22	7,295,738.99	6,664,237.59	5,758,316.33	4,441,995.66	5,179,561.36	6,252,017.38
Total Restricted Investments & Capital	$ 8,864,029.68	$ 7,826,318.22	$ 7,295,738.99	$ 6,664,237.59	$ 5,758,316.33	$ 4,441,995.66	$ 5,179,561.36	$ 6,252,017.38
Total Cash, Investments & Capital	**$ 25,739,347.35**	**$ 24,840,490.16**	**$ 25,825,247.50**	**$ 26,558,446.57**	**$ 25,045,723.06**	**$ 21,297,634.12**	**$ 20,022,395.62**	**$ 19,068,159.05**

Total Unrestricted	$ 21,873,711.79	$ 24,460,499.52	$ 35,655,669.61	$ 29,532,890.50	$ 26,556,879.43	$ 34,539,441.74	$ 24,502,110.40	$ 24,856,002.05
Total Restricted	60,912,940.33	69,046,710.74	60,165,669.47	48,605,150.88	51,746,862.34	49,715,466.81	30,924,331.17	30,371,980.13
Total Cash Utilities	**$ 82,786,652.12**	**$ 93,507,210.26**	**$ 95,821,339.08**	**$ 78,138,041.38**	**$ 78,303,741.77**	**$ 84,254,908.55**	**$ 55,426,441.57**	**$ 55,227,982.18**

Sewer Fund Budget vs Actual FY23

Revenue & Expenditures

Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev	UOSA Treatment
07/22	$ 1,436,678	$ 1,392,292	$ 4,672,920*	-3.09%	$ 2,701,824
08/22	$ 1,474,553	1,512,919	104,112	2.60%	
09/22	$ 1,470,177	1,490,753	3,154,909	1.40%	2,885,993
10/22	$ 1,457,597	1,428,896	742,754**	-1.97%	
11/22	$ 1,421,043	1,494,574	413,331**	5.17%	
12/22	$ 1,400,480	1,417,455	2,908,349*	1.21%	2,504,015
01/23	$ 1,400,475	1,408,218	707,405**	0.55%	
02/23	$ 1,388,093	1,325,661	120,821**	-4.50%	
03/23					
04/23					
05/23					
06/23					
	$ 11,449,096	$ 11,470,768	$ 12,824,601	0.19%	$ 8,091,832

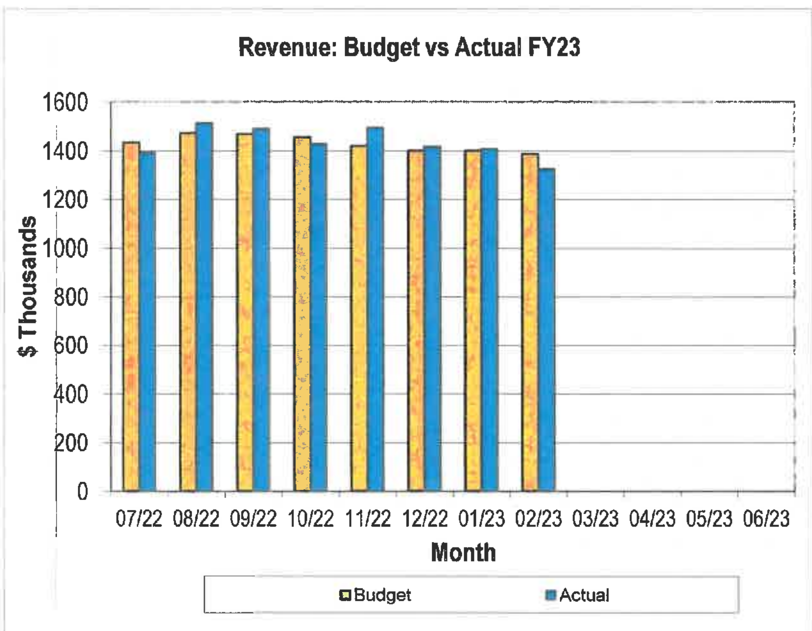
*Includes $1,514,850 to Debt Service which were budgeted

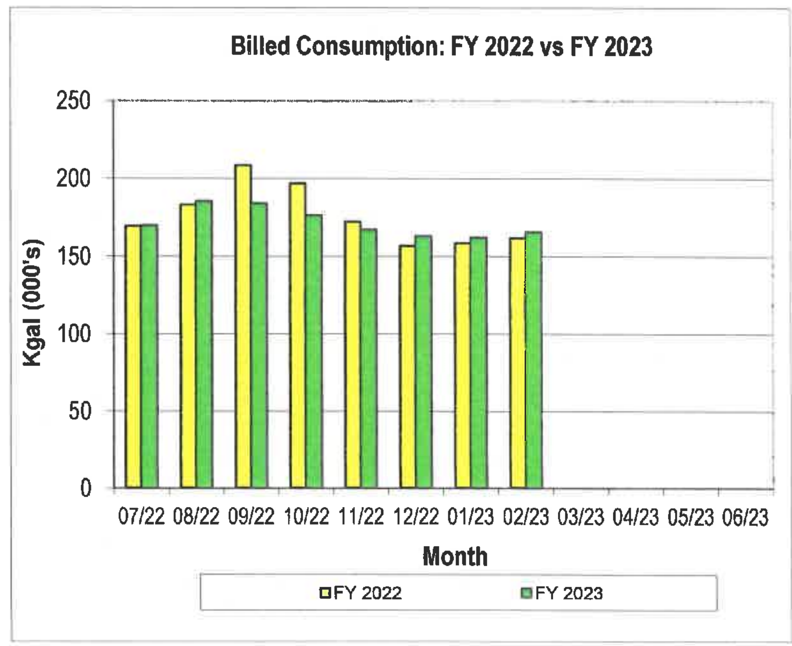
*Includes $31,000 to NVTA Fund Capital which were budgeted

** includes 450,000 transfer to Sewer Capital

Billed Consumption

Bill Mo	FY 23 Budget Total Kgal	FY 23 Actual Total Kgal	FY 22 Actual Total Kgal	Actual Over Budgeted	FY 23 over FY 22
07/22	167,486	169,685	169,126	1.31%	0.33%
08/22	178,125	185,390	182,969	4.08%	1.32%
09/22	176,577	184,020	208,767	4.22%	-11.85%
10/22	172,641	176,116	196,862	2.01%	-10.54%
11/22	162,853	166,806	172,025	2.43%	-3.03%
12/22	157,047	162,785	156,824	3.65%	3.80%
01/23	157,144	161,900	158,450	3.03%	2.18%
02/23	153,690	165,530	161,754	7.70%	2.33%
03/23					
04/23					
05/23					
06/23					
	1,325,563	1,372,232	1,406,777	3.52%	-2.46%





Water Fund Budget vs Actual FY23

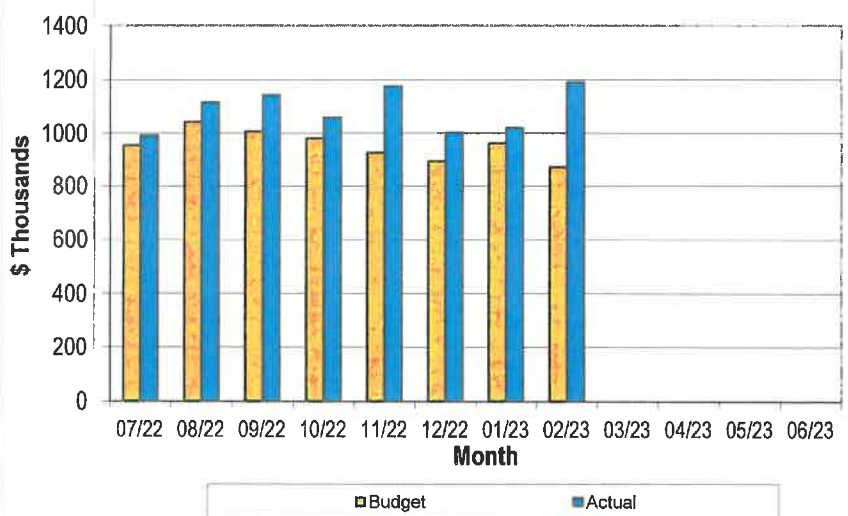
Revenue & Expenditures				
Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev
07/22	$ 955,561	$ 991,285	$ 1,999,145*	3.74%
08/22	$ 1,042,929	1,115,122	517,607	6.92%
09/22	$ 1,007,701	1,142,521	777,414	13.38%
10/22	$ 981,027	1,059,221	649,723	7.97%
11/22	$ 927,918	1,175,399	1,073,478	26.67%
12/22	$ 896,397	1,002,496	651,692	11.84%
01/23	$ 963,244	1,021,412	1,988,644	6.04%
02/23	$ 873,604	1,190,579	573,149	36.28%
03/23				
04/23				
05/23				
06/23				
	$ 7,648,381	$ 8,698,035	$ 8,230,852	13.72%

*Includes $1,417,668 to Debt Service which were budgeted

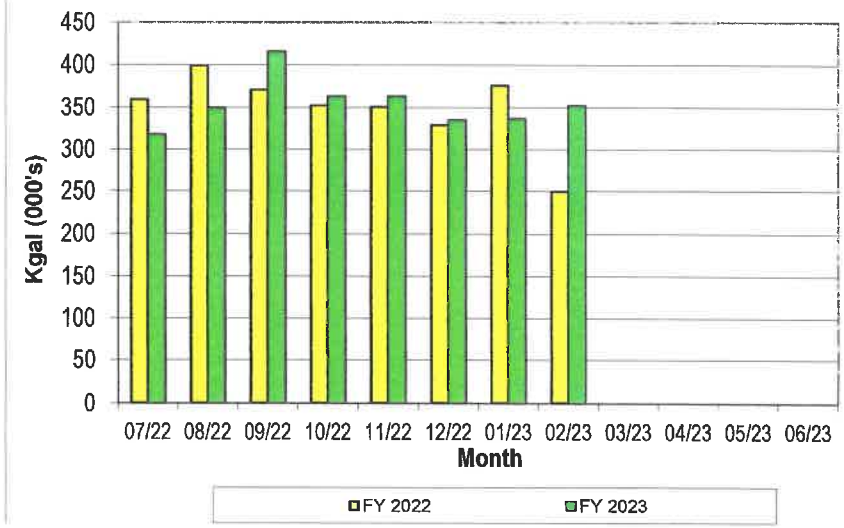
Billed Consumption						
Bill Mo	FY 23 Budget Total Kgal	FY 23 Actual Total Kgal	FY 22 Actual Total Kgal	FY23 over FY22	Retail FY23 over FY22	Wholesale FY23 over FY22
07/21	351,607	317,553	359,112	-11.57%	-0.13%	-25.38%
08/21	386,108	349,324	398,951	-12.44%	6.67%	-29.24%
09/21	370,016	415,605	370,923	12.05%	0.19%	24.07%
10/21	357,295	363,307	352,479	3.07%	1.65%	1.36%
11/21	341,623	363,193	350,390	3.65%	-0.23%	7.76%
12/21	330,474	334,953	328,874	1.85%	1.43%	1.11%
01/22	337,589	336,766	375,881	-10.41%	-0.45%	-18.53%
02/22	323,587	352,312	249,473	41.22%	0.07%	112.51%
03/22						
04/22						
05/22						
06/22						
	2,798,299	2,833,013	2,786,083	1.68%	1.26%	1.97%

*

Revenue: Budget vs Actual FY23



Billed Consumption: FY 2022 vs FY 2023



Electric Fund Budget vs Actual FY23

Revenue & Expenditures

Bill Mo	FY 23 Budget Revenue	FY 23 Actual Revenue	FY 23 Actual Expenditures	Actual Rev over Budgeted Rev	Purchase Power**
07/22	$ 3,869,733	$ 3,750,546	$ 4,138,871*	-3.08%	$ 3,050,474
08/22	4,332,695	4,537,072	$ 3,132,363	4.72%	2,227,890
09/22	4,278,024	4,845,913	$ 4,837,241	13.27%	2,750,378
10/22	3,453,465	4,148,952	$ 6,016,047***	20.14%	2,428,686
11/22	3,067,936	3,571,129	$ 4,247,735	16.40%	2,773,737
12/22	3,043,952	4,106,610	$ 3,794,753	34.91%	2,944,714
01/23	3,854,528	4,901,265	$ 4,292,351	27.16%	2,996,024
02/23	4,092,037	4,705,253	$ 3,902,384	14.99%	3,100,000
03/23					
04/23					
05/23					
06/23					
	$ 29,992,370	$ 34,566,740	$ 34,361,745	15.25%	$ 22,271,903

*Includes $300K to NVTA Fund Capital which were budgeted

*Includes $51,703 to Debt Service which were budgeted

*** Includes 2,600,000 transefer to Electric Capital

Billed Consumption

Bill Mo	FY 23 Budget Total kWh	FY 23 Actual Total kWh	FY 22 Actual Total kWh	Actual over Budgeted	FY23 over FY22
07/22	37,084,340	34,000,975	34,049,830	-8.31%	-0.14%
08/22	41,687,927	38,992,225	39,174,321	-6.47%	-0.46%
09/22	41,031,811	39,957,776	39,172,474	-2.62%	2.00%
10/22	33,066,204	34,446,995	36,148,600	4.18%	-4.71%
11/22	29,228,737	26,760,203	29,242,658	-8.45%	-8.49%
12/22	28,941,463	28,728,328	28,315,725	-0.74%	1.46%
01/23	36,842,797	34,302,907	32,295,501	-6.89%	6.22%
02/23	39,046,261	34,941,966	37,594,283	-10.51%	-7.06%
03/23					
04/23					
05/23					
06/23					
	286,929,540	272,131,375	275,993,392	-5.16%	-1.40%

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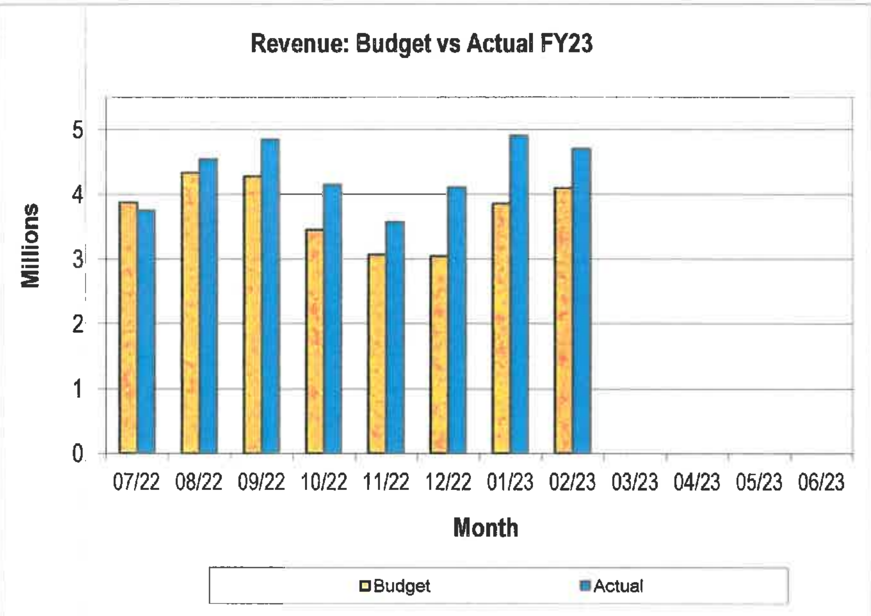
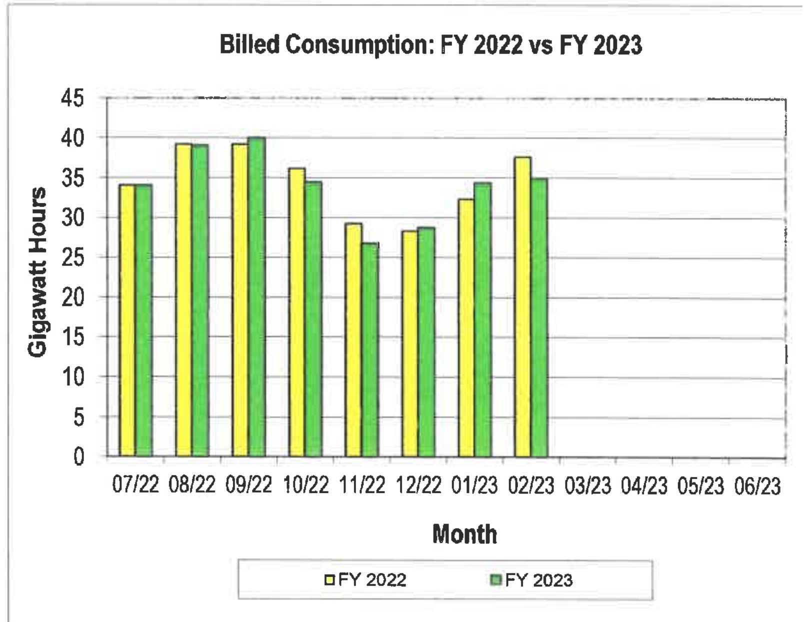




UTILITY CUSTOMER SERVICE REPORT

FOR THE MONTH OF FEBRUARY 2023

REVENUES BILLED				LAST MONTH	THIS MONTH
NUMBER OF ACCOUNTS BILLED				17,111	17,105
ELECTRIC			Energy	$2,192,098.28	
			Demand	$679,966.90	
			PCA	$1,075,358.80	
			FCA	$0.00	
			Security lgts	$18,495.79	
			Ld mgmt	$0.00	
			Sub Total	$3,965,919.77	
*** LOMAR		JANUARY		$280,666.14	
*** MICRON		JANUARY		$10,388.33	
TOTAL ELECTRIC					$4,256,974.24
WATER					$1,572,920.20
SEWER					$720,008.41
UOSA COMPONENT					$613,525.15
Pond overhead, maintenance and indirect					$27,553.66
REFUSE					$282,986.12
STORMWATER					$230,034.02
RETURNED DEPOSITS					($23,739.44)
SUBTOTAL					$7,680,262.36
PENALTIES				LAST MONTH	$55,804.94
TOTAL REVENUE BILLED				$6,434,464.61	$7,736,067.30

REVENUES COLLECTED FOR FEBRUARY BILLINGS AND PRIOR					
OVER THE COUNTER		17.83%			$1,182,340.42
WIRE PAYMENTS		9.52%			$631,360.31
MAIL		8.26%			$547,655.58
A/R BOX		23.12%			$1,532,725.16
E-CHECKS (INVOICE CLOUD)		31.71%			$2,102,612.42
PAYPAL/VENMO		0.31%			$20,530.90
CREDIT CARDS (INVOICE CLOUD)		9.24%		LAST MONTH	$612,587.53
TOTAL REVENUE COLLECTED				$5,905,671.24	$6,629,812.32

OVER/SHORT					$0.00
OPERATION ROUND UP				$241.31	$230.21
MONTHLY NON PAY CUTS	DH	103			
	CUT	74			
	HOLDS	35			

UTILITY ACCOUNTS RECEIVABLES

AGING	10/31/22	11/30/22	12/30/22	01/31/23	02/28/23
CURRENT DUE (ACTIVE ACCTS)	$3,258,518.93	$3,188,667.51	$3,683,662.51	$3,221,493.66	$4,448,048.33
30 DAYS (ACTIVE ON CUT LIST)	$313,989.63	$405,486.22	$542,286.27	$292,865.49	$311,668.19
60 DAYS (DISCONNECTED ACCOUNTS) 0.35%	$34,076.00	$41,931.22	$47,770.72	$35,647.49	$26,880.03
90 DAYS (DISCONNECTED WAITING FOR WRITE-OFF) 0.14%	$11,553.37	$10,617.50	$17,146.15	$13,891.57	$10,486.02
OVER 90 DAYS 0.19%	$24,806.24	$23,582.90	$21,606.70	$22,827.68	$14,631.56
TOTAL DUE	$3,642,944.17	$3,670,285.35	$4,312,472.35	$3,586,725.89	$4,811,714.13
* WRITE OFFS	$8,262.35	$16,856.53	$10,304.36	$11,262.39	$16,227.52
COLLECTED FROM STATE	$0.00	$0.00	$0.00	$0.00	$0.00
COLLECTED IN HOUSE	($1,982.25)	($529.24)	($984.29)	($560.35)	($1,826.27)
NET	$6,280.10	$16,327.29	$9,320.07	$10,702.04	$14,401.25

* written off accounts are bad debts removed from the accounts receivable control register but not from the system.

Monthly Outage Report

For the Month of February

Total Outages:	**4**	**SAIDI:**	**8.165**
Total Customers Affected:	**3,261**	**ASAI:**	**99.980**
Total Customer Minutes:	**135,924**	**CAIDI:**	**41.682**
		SAIFI:	**0.196**

Date	Start Time	Duration (min)	Customers Affected	Customer Minutes	Substation-Feeder	Voltage Type	Cause	Device
2/7/2023	08:22	128	1	128	AIRPORT-306	Secondary	Equipment Failure	Secondary Conductor
2/12/2023	18:26	46	** 3,255	135,133	BATTERY HEIGHTS-	Primary	Cause Unknown	Circuit Switcher
2/23/2023	13:30	231	1	231	POINT OF WOODS-201	Secondary	Equipment Failure	Metering/AMI
2/14/2023	14:42	108	4	432	PRINCE WILLIAM-101	Primary	Equipment Failure	Cutout

*** Has Multiple Restore Times.*

Electric System Operating Report – February 2023

Reliability

	SAIDI (minutes)	ASAI (%)
January	0.122	100.000
February	8.165	99.9790
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
YTD	8.287	99.9895
Target	< 52	99.99

System Average Interruption Duration Index (SAIDI):
Measures the average total sustained interruption duration for the average customer served over a defined period of time. (Sum of Customer Interruption Duration minutes / Total Number of Customers Served)

Average Service Availability Index (ASAI):
Represents the fraction of time (in percentage) that a customer service was available over a defined period of time.

Electric System Operating Report - February 2023

System Data

	VMEA Bill	Actual cost per kWh (¢)
September	$ 2,750,377	8.49
October	$ 2,428,686	8.60 **
November	$ 2,773,737	8.94
December	$ 2,944,713	7.72
January	$ 2,996,024	8.50

**Reflects $75,618 Dominion true-up

February Meter Data

DVP System Peak	19,544	MW (February 4, 8 AM)
City Coincident Peak	67.2	MW (February 4, 8 AM)
City System Peak	67.2	MW (February 4, 8 PM)
System kWh Consumption	38,141,268	kWh
CP/NCP Ratio	83.02 %	(January, verified)
CP/NCP Ratio (Calendar Year avg.)	83.02 %	(January, verified)

Generation - PJM Base Residual Auction

No Capacity Calls this month.

Load Control and Voltage Reduction

Saturday, February 4th DVP Peak 19,544 MW @ 08:00; VMEA 229.9 MW, Man-67.2 MW

Temperatures at the Peak:		
	Manassas	14 °F
	Richmond	16 °F
	Norfolk	22 °F

Generation – Transmission Peak Shaving (in MW)

Date	Peak Hour	Hours Ran	Manassas Generation	DVP Load	Manassas Load	VMEA Load
February 4th	08:00	1.5	17.15	19,544	67.2	229.9

Electric CIP	Description	FY23 Funds Available	Project to Date Estimated Cost	Project to Date Actual Cost	Project	Status	Estimated Start Date	Estimated Completion Date
E04 / C3608	Replace Fuse Cabinets	$0	$20,000	$12,054	Confederate Trail & Burnside Road	Requires major outage, need good weather. Switch is ready to install in manhole. Tarek was to check settings - ON HOLD	Spring 2021	Spring 2022
E30 / C3667	UG Cable Replacement	$940,863	$300,000	$278,930	Silver Maple Area	Started Aug. 2022, Conduit install complete, Started cable install 1/2023.	August 2022	Summer 2023
			$250,000	$279,698	Cannon Ridge	Started Mar. 2022, Conduit install complete, Started cable install 8/2022.	March 2022	Summer 2023
			$452,500	$20,324	Weems, Jackson, Stonewall Area	Conduit installation 50% complete	January 2023	Winter 2023
E31 / C3686	New Generation Alternatives	$0	$42,000	$0	Public Work Generator - upgrade switchgear	Major outage needed at the PW Facility - late March 2023 time frame	March 2023	March 2023
E32 / C3694	New Fiber Optic Loop	$263,685	$0	$0	Fiber Optic -Prince William to Bunker (PWF)	Need estimate and work order # created On Hold	TBD	TBD
E33 / C3693	OH to UG	$1,018,047	$0	$0	Longstreet Drive	Grant to Portner - in design	FY 2022	June 2024
E34 / C3695	LED Streetlights	$126,978	$700,000	$573,022	LED Streetlights	(Labor will not be charged to CIP account) Skipping historic district. Working on Neighborhood Streets. Additional 420 units received.	Working	June 2025
E35 / C3515	Airport Distribution	$1,315,120		$0	Investigate Airport	P.O. issued to Rgrid to begin study. 90% design,		
NVTA / T042 / C3510	Rt 28 Widening VDOT	$120,917	$70,000	$20,111	Route 28 Widening PH II (Godwin to PA)	Relocation 100% complete. Street light installation to begin this month.	Nov 2021	Spring 2023
NVTA T087 / C3511	Quarry Streetscape	$109,622	$400,000	$410,378	OH to UG Quarry St/Messenger Pl/Main St	Relocation 100% complete. Street lights installed. East St. scheduled to be repaved late March.	May 2022	February 2023

MONTHLY OPERATIONS REPORT
WATER & SEWER DEPARTMENT
March-23

WATER PLANT	DAILY USAGE TREND (MGD)	ACTUAL DAILY AVERAGE (MGD)	MONTH
WATER PUMPED to COM	--------	12.67	Dec-22

WATER DISTRIBUTION	(MGD)	(MGD)	MONTH
MANASSAS	2.79	4.16	Dec-22
MICRON	2.52	2.24	Dec-22
MANASSAS PARK	0.48	0.79	
PWCSA	4.58	5.47	Dec-22
TOTAL	10.36	12.67	

WATER STATISTICS	PERMIT LIMIT	ACTUAL	REGULATORY LIMIT
DISINFECTION-BY-PRODUCTS-THM (Trihalomethanes)	<50 ppb	46.88	80 ppb
DISINFECTION-BY-PRODUCTS-HAA (Halogenic Acetic Acids)	< 40 ppb	34.58	60 ppb
TOC REMOVAL (Total Organic Carbon)	> 1.10	1.18	> 1.0
FY23 TURBIDITY EXCEEDANCES*	0	0	0
FY23 VIOLATIONS*	0	0	0

WATER OPERATIONS	GOAL	ACTUAL	
FY23 CRITICAL VALVES OPERATED (24")*	100%	100%	FY23 YTD
FY23 NON-CRITICAL VALVES OPERATED (All Others)*	33%	7%	FY23 YTD
FY23 LOCATIONS FLUSHED*	100%	100%	FY23 YTD
MONTHLY WATER BREAKS	2.5	1	Feb 23
MONTHLY WATER QUALITY COMPLAINTS	0	3	Feb 23
FY23 TRAINING DAYS (Utility Employees)*	108	10.50	FY23 YTD

SEWER OPERATIONS	BUDGET OR GOAL	ACTUAL	
MONTHLY SEWER BLOCKAGES	0	0	Feb 23
FY23 MANHOLES INSPECTED*	1,000	269	FY23 YTD
FY23 TV INSPECTIONS -camera (FEET)*	200,000	47,710	FY23 YTD
FY23 SEWER MAIN REHABILITATED (FEET)*	6,000	0	FY23 YTD
FY23 LINE CLEANING (FEET)*	200,000	95,500	FY23 YTD

SEWER (FLOW TO UOSA)	DAILY USAGE TREND (MDG)	ACTUAL DAILY AVERAGE (MGD)	MONTH
UOSA FLOW	--------	6.07	Dec-22
MANASSAS	2.69	2.77	Dec-22
MICRON	2.30	2.50	Dec-22
PWCSA	19.80	15.31	Dec-22

UOSA FLOW LIMITS		ACTUAL DAILY AVERAGE (MGD)	PERMIT LIMIT
HIGHEST 30 CONSECUTIVE DAYS AVERAGE FLOW THIS MONTH	--------	6.872	
PEAK 30 DAY PERIOD (December 2020)	--------	8.438 (1)	**9.19 (2)**

* FY23 = July 1, 2022 - June 30, 2023

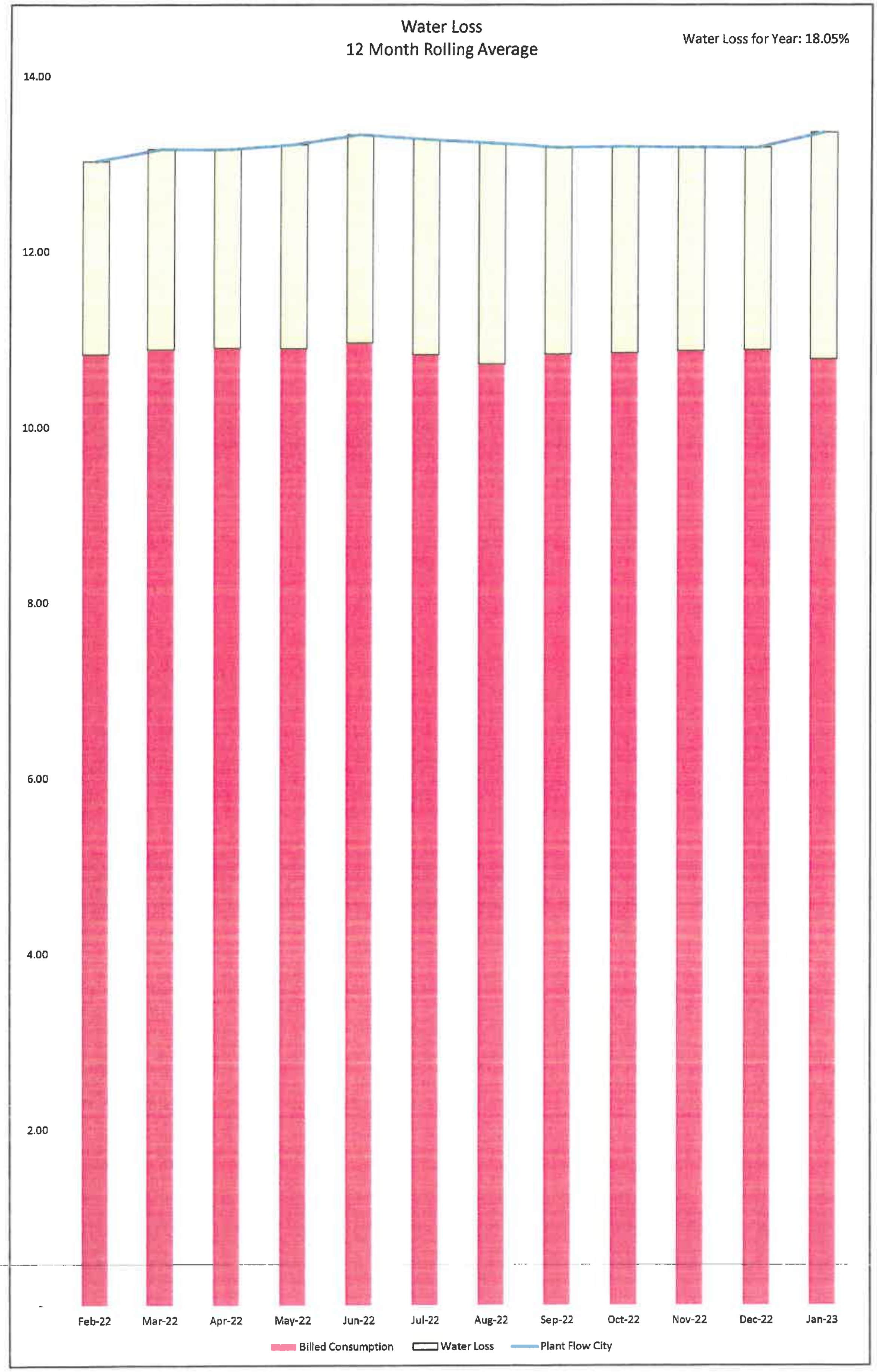
(1) Peak for 30 days
(2) Maximum allowed by UOSA (Limit increased from 8.69 to 9.19 August 2019)

UOSA MONTHLY FLOW REPORT

AVERAGE DAILY FLOW
SUMMARY
for
January 2023

	UOSA Influent mgd	Fairfax County mgd	Prince William County mgd	City of Manassas mgd	City of Manassas Park mgd
LIMIT: (Highest 30 consecutive days average daily flow during the past 48 months)	**54.0000**	**22.0999**	**19.7971**	**9.1893**	**2.9137**
ACTUAL: (Highest 30 consecutive days average daily flow during the past 48 months)	**43.114** **Jan-21**	**16.614** **Mar-19**	**17.062** **Dec-20**	**8.438** **Dec-20**	**2.004** **Mar-19**
Highest 30 consecutive days average daily flow this month	37.532	13.665	15.311	6.872	1.684
Average daily flow this month					
Collection System	32.8019	12.2519	13.0288	6.0684	1.4528
Septage Receiving Facility	0.0553	0.0173	0.0378	0.0001	0.0001
Total average daily flow (mgd)	32.8573	12.2692	13.0666	6.0685	1.4530
Average daily flow past 3 months					
Collection System	33.3638	12.3968	13.2923	6.2372	1.4375
Septage Receiving Facility	0.0608	0.0167	0.0439	0.0001	0.0001
Total average daily flow (mgd)	33.4246	12.4135	13.3362	6.2373	1.4376
Average daily flow past 12 months					
Collection System	33.2529	12.3976	13.2726	6.2090	1.3737
Septage Receiving Facility	0.0738	0.0186	0.0527	0.0002	0.0023
Total average daily flow (mgd)	33.3267	12.4162	13.3253	6.2092	1.3759

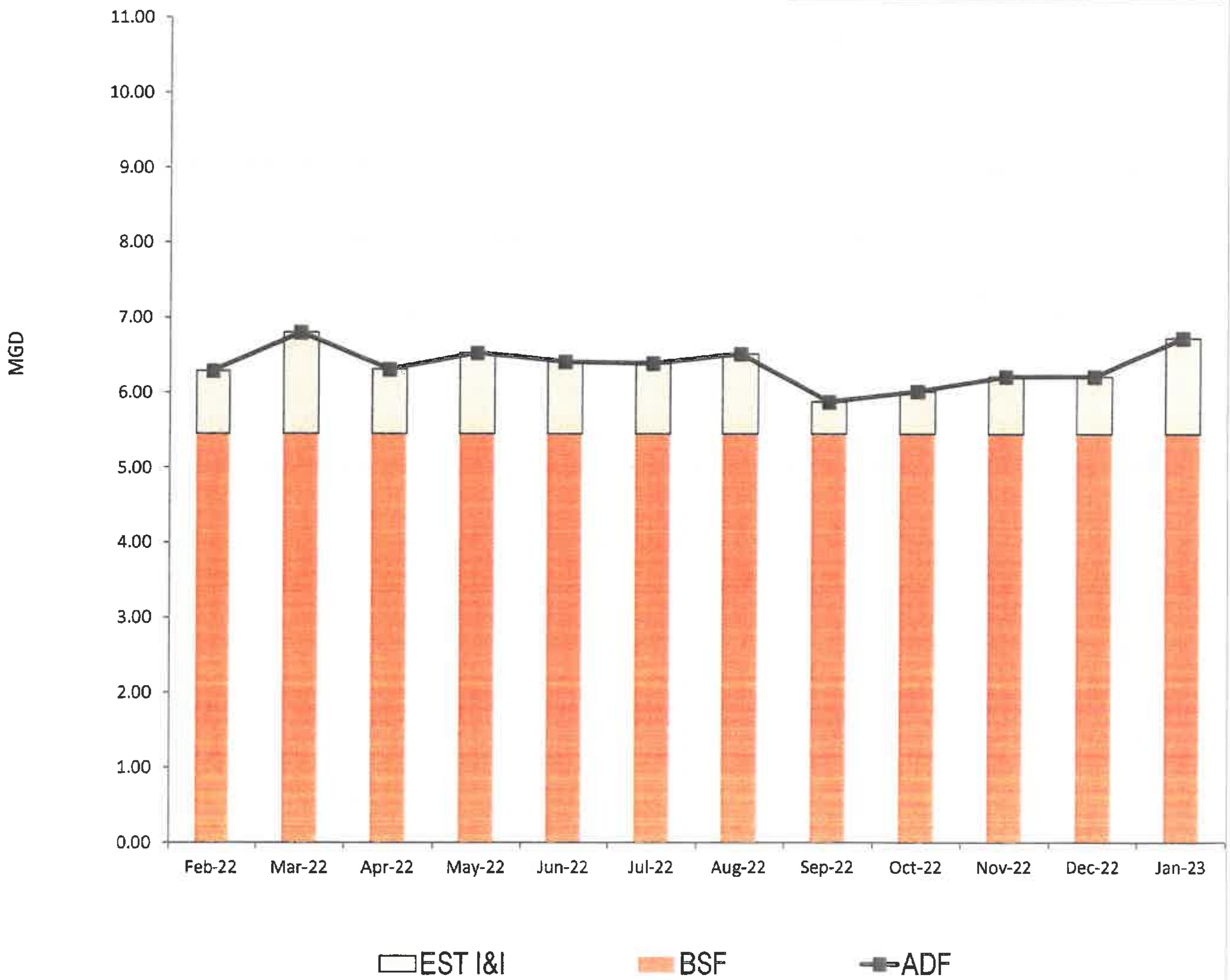
Rain data in total inches:	**Month** January-23	**Quarter** November-22 through January-23	**Year** February-22 through January-23
UOSA Plant Site Gage	1.60	9.58	42.74
Dulles Weather Station Gage	1.36	8.95	37.05



Water Loss
12 Month Rolling Average
Water Loss for Year: 18.05%
14.00
12.00
10.00
8.00
6.00
4.00
2.00
-
Feb-22
Mar-22
Apr-22
May-22
Jun-22
Jul-22
Aug-22
Sep-22
Oct-22
Nov-22
Dec-22
Jan-23
Billed Consumption
Water Loss
Plant Flow City

Inflow & Infiltration

I&I for Jan 2023: 23%
Average I&I from 2/22 to 1/23: 17%



BSF: Baseline Sewer Flow provided by UOSA
ADF: Average Daily Flow provided by UOSA
Est I&I: Estimated Inflow & Infiltration (adf/bsf)

Rainfall for Dec 2022: 5.32"
Total Rainfall: 1/22 to 12/22 is 44.96"

WATER & SEWER DEPARTMENT CAPITAL IMPROVEMENT PROJECTS

CIP	Project Name	Year	Design & Construction Status	Project Estimate	FY 2023 Funds Available	Project to Date Actual Costs	Expected Start Date	Expected Completion Date
W042	24" Transmission Main Replacement (C3683)	2007		28,800,000	18,920,108	14,758,144		6/23
	Phase IV -Vint Hill Rd along Fitzgerald Way to Rt 28		Plan and Bid Documents are 100% meeting with the EPA on 9/12 to discuss grant funding	4,000,000			3/23	11/24
	Phase V -Fox Chase Dr along Vint Hill Rd to Sudley Manor Dr		90% design drawings received; alignment & easements identified. easement acquisition complete. Dividing project and finalizing documents to meet federal requirements.	10,000,000			1/23	6/24
	Phase VI-A -Residency Rd along Rt 28 to Godwin Dr		Bid awarded to General Excavation Inc.; Contractor mobilized and will be scheduling the start of the waterline work in the next few weeks. Final Tie in being completed 12/22.	1,949,235			7/21	12/22
W047	Finished Water Capacity Increase (C3684)	2009	100% Design; Send out to bid in January	3,000,000	6,598,796	973,870	1/23	3/24
W054	Recycle Decant to the WTP (C3678)	2012			311,797	-		
W050	Main Replacement Looping (C3663)				519,838	479,031		
W050	Airport Infrastructure	2020	In design			17,629	3/21	TBD
W050	Bragg Lane	2020	Under construction pipe should be completed 1/23			630,325	11/22	3/23
W050	Longstreet Drive	2020	In design at 90%			53,670	1/21	TBD
W050	Park Street	2023				55,840	11/22	2/23
W065	Clear Well Addition & Roof Replacement (C3696)	2011	Tanks is currently under roof, finish coats to be applied this month	4,745,563	5,093,010	3,677,877	12/20	5/23
W068	Interconnecting Meter Vaults (C3601)	2018			80,000	-		
W070	Water Plant Improvements (C3602)	2018	Recently replaced actuators and 6" waste valves on filters 9-12. Replaced County and City actuators at pump house. Completed brick enclosures at loading dock and maintenance shop. Began sealing and painting interior block walls in conventional filter area. Completed replacement of flocculator paddles and drives for 3 and 4.		897,818	1,719,427	1/18	Continuing
W072	Surge Tank Expansion (C3519)	2021			2,000,000	-		
W073	Lake Manassas Algae Control Concept Design				17,578	45,822		
W074	Enclosure Pulsator Basins (C3521)	2021	Material delivery expected 12/30/22		200,000	-	2/23	3/23
W077	Floc Basin Paddle Replacement (C3523)	2021	Complete		32,780	267,220		
W076	Screw Press Decant (C3522)	2021	Pilot testing scheduled for March		6,700,000	-		
W066	Nokesville Rd Water Main Upgrade (C3525)	2022	In design		1,168,941	131,059		
W078	Water Meter AMR (C3530)	2023			11,955	292,014		
S000	18" Parallel Force Main (C3506)	2019		250,000	250,000	-	TBD	TBD
S016	Upper Flat Branch Interceptor Replacement (C3669)	2010			1,934,483	808,411		
S021	Ellicott Ln Sewer Main Replacement (C3501)	2019	Design 100% Bid Documents being reviewed to release	585,000	540,236	44,764	1/23	4/23
S023	Sewer Main Replacement (C3514)	2018	In design		1,059,420	73,580	TBD	TBD
S026	Airport Infrastructure Improvements (C3524)	2022		3,800,000	3,800,000	-		
S024	Sewer Capacity Expansion (C3526)	2022		900,000	807,446	92,554		
T030	NVTA_Dean Dr Extended -Water (C3697)	2017	36" waterline in process expecting tie in January 2023		403,411	876,589		1/23
T030	NVTA_Dean Dr Extended -Sewer (C3699)	2018	Completed and tested		1,982	49,018		

CITY OF MANASSAS
UTILITIES DEPARTMENT

Purchase Orders Approved – February 2023

Project	Company	Amount
Pad Mount Safefront Primary Metering Station – Brickyard Data Center	Anixter	$151,108
900amp rated T-body and connecting plugs – Brickyard Data Center	WESCO Distribution Inc	$49,270
Box Pad – Brickyard Data Center	Irby Co	$5,904
Box Pad – Brickyard Data Center	Graybar Electric Co	$5,374
Security Cameras in Customer Service area	Canal Alarm Devices Inc	$6,671
Post Concealment Inspection/Special Inspection – Clearwell Project	Terracon Consultants, Inc	$50,526
Sanitary Sewer Replacement – Ellicott Lane	Sagres Construction Corp	$397,076.78