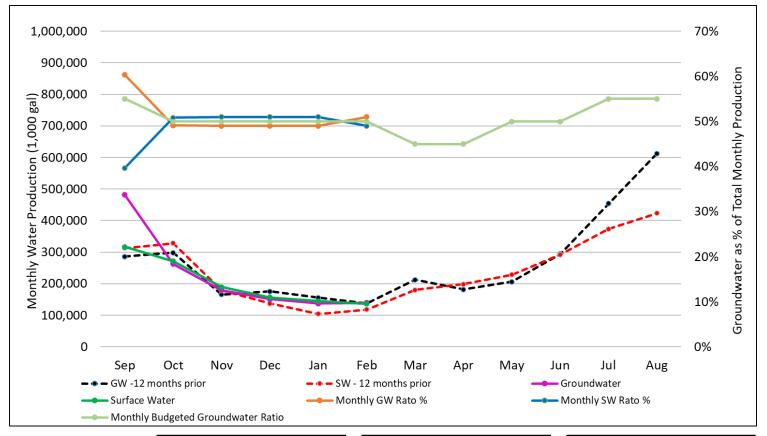
# Woodlands Monthly Operations Report FEBRUARY 2024



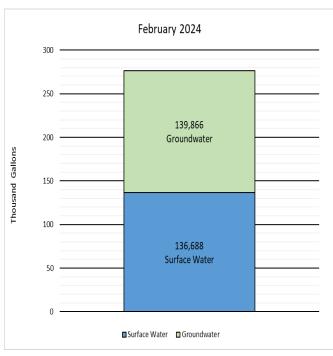




	Gallons (1,000)					
FY	Groundwater	Surface				
F1	Groundwater	Water				
2020	3,355,754 2,324					
2021	2,810,265 2,438,11					
2022	3,601,249	2,303,308				
2023	3,181,716 2,875,9					
(FYTD) 2024	1,351,365	1,215,759				

Blend %							
Groundwater	Surface						
Groundwater	Water						
59%	41%						
54%	46%						
61%	39%						
53%	47%						
53%	47%						

Budgeted %					
Groundwater	Surface				
Groundwater	Water				
65%	35%				
65%	35%				
65%	35%				
50%	50%				
50%	50%				



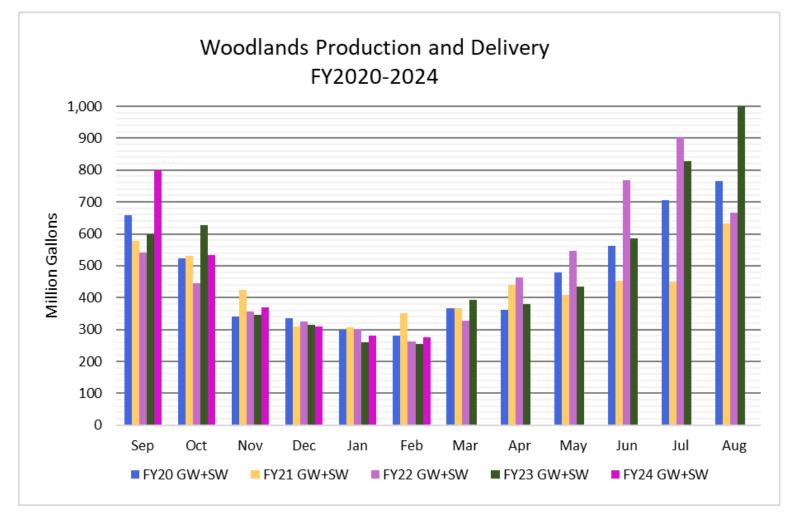
Surface Water 49% Groundwater 51%

Rolling 12 Month Water Loss February 2023 - January 2024							
Accounted for Loss 1.32%							
Unaccounted for Loss	3.46%						
Total Loss	4.79%						

\*Water loss budgeted at 5.5%

<sup>\*</sup>Due to timing of monthly MUD billing the Water Loss report is a month behind.

Monthly Accounted for Water Loss									
Date	Fire Flow	re Flow Flush Breaks Cause							
				Fire Hydrant Flush for					
February 7, 2024		60,649	PRV 12 Install						
February 28, 2024		28,000		Deadend Main Flush					
				Wells 17 & 18 Monthly					
February 28, 2024		681,000		Flush					
February 29, 2024		8,760		Flush EST 1 (60.4)					
February 29, 2024		14,670		Flush EST 4 (50.4)					





## **2.0 WASTEWATER DATA**

For the purpose of the Woodlands Monthly Operations Report, monthly wastewater data reported to TCEQ is reported in the following tables.

	WWTF No. 1						
Parameter	Permitted	Reported					
Permitted Flow (MGD)	7.8	2.9					
2-Hour Peak Flow (MGD)	18.0	5.26 2/3/24 (1.45")					
Chlorine (mg/l)	0.1	0.03					
E. coli (colonies per 100 ml)	200	2.0					

WWTF No. 2						
Permitted	Reported					
6.0	3.46					
15.60	10.34 2/26/24 (0.00")					
0.1	0.04					
200	4.0					

WWTF No. 3					
Permitted Reported					
0.9	0.754				
3.6	1.10 2/3/24 (1.10")				
1.0 (min)	1.68				
4.0 (max)	3.18				
399	2.0				

#### **3.0 INFRASTRUCTURE MAINTENANCE**

Asset	Location	Purpose	Issue	Out of Service	In Service	Schedule to Repair
12" and 16" watermain and 16" well collection line relocation	SH242	Drinking Water Transmission Line / Well Collection	TXDOT Construction project	varies	Scheduled completion in May 2024	Relocation of water mains and well collection lines on SH242 due to TXDOT roadway and drainage improvements
Water Well Collection Line 17&18	Woodlands Parkway & Six Pines	Carry raw water from well to water plant	Leak	03/2023		TBD pending discussions with County
Aeration Basins 1 & 2	WWTF No. 1	Biological treatment of wastewater	Structural issues	03/01/2012		To be demolished; Awaiting WW Master Plan
LS-6 Electrical Rehabilitation	Lift Station 6	Upgrade obsolete electrical equipment and add a PLC for SCADA control	Replace and Elevate new control panels to keep out of flood plain			Starting installation of new electrical panel rack and installation of underground conduit.
BP-2 Repairs	WP-3	Pump Repairs	Seals leaking and shaft walking in the bearings	12/28/2023		Waiting on replacement shaft, seals, and bearings, Parts expected to arrive mid-March.
Wells 5, 11, 22, 26, 32	Varies	Raw water for treatment	Down for rehab	Varies		Wells 5, 11, 32 – Spring 2024; Wells 22 & 26 – FY25
Blower 4 Install	WWTP-3	Install additional blower	Redundancy			During startup, found a defective sensor from factory.



			Waiting for new sensor to arrive.

Work Orders	# of Work Orders	Hours Spent	Work Orders	d Orders # of Work Orders	
Preventive Maintenance (PM)	240	282.98	Corrective Maintenance (CM)	31	194.00



### 4.0 FINANCIAL

#### San Jacinto River Authority – Woodlands Operating Actual to Budget Comparison For the Six Months Ending February 29, 2024

Water Rate: \$2.78
GRP Blended Rate: \$3.20
Wastewater Pate: \$5.65

Wastewater Rate: \$5.65	February				YTD						Annual	
		Actual		Budget		Actual		Budget		Variance		Budget
OPERATING REVENUES	\$	2,777,432	\$	2,930,797	\$	22,475,931	\$	21,732,360	\$	743,571	\$	47,643,480
OTHER REVENUES	\$	64,970	\$	700	\$	432,369	\$	4,200	\$	428,169	\$	8,400
OPERATING EXPENSES												
Salaries, Wages, & Employee Benefits	\$	556,218	\$	649,593	\$	3,496,557	\$	3,925,146	\$	428,590	\$	8,560,304
Professional Fees		20,580		50,375		220,082		356,850		136,768		767,000
Purchased & Contracted Services		946,557		1,009,596		8,704,353		8,551,388		(152,965)		19,087,753
Supplies, Materials & Utilities		420,970		578,157		2,422,091		3,713,940		1,291,850		7,271,121
Rentals		1,003		1,442		2,991		8,650		5,659		17,300
Maintenance, Repairs & Parts		121,935		189,840		793,879		1,139,038		345,159		2,278,075
General & Administrative Expenses		63,042		71,729		394,194		433,131		38,936		927,262
TOTAL OPERATING EXPENSES	\$	2,130,304	\$	2,550,730	\$	16,034,146	\$	18,128,144	\$	2,093,997	\$	38,908,816
NON-OPERATING EXPENSES	\$	37,684	\$	37,684	\$	226,513	\$	226,513	\$	(0)	\$	452,580
TOTAL EXPENSES	\$	2,167,988	\$	2,588,414	\$	16,260,659	\$	18,354,656	\$	2,093,997	\$	39,361,396
NET REVENUES OVER EXPENSES	\$	674,414	\$	343,082	\$	6,647,641	\$	3,381,904	\$	3,265,737	\$	8,290,484
CAPITAL IMPROVEMENTS	\$	-	\$	21,956	\$	255,413	\$	316,225	\$	60,812	\$	447,960
OTHER SOURCES (USES)												
Bond Principal	\$	(136,667)	\$	(136,667)	\$	(820,833)	\$	(820,833)	\$	-	\$	(1,649,167)
Lease Principal		(696)		(696)		(4,151)		(4,151)		-		(8,364)
Repair and Replacement Transfers		(450,000)		(450,000)		(2,800,000)		(2,800,000)		-		(6,000,000)
Operating Reserve Fund		-		-		(264,144)		(264,144)		-		(264,144)
TOTAL OTHER SOURCES (USES)	\$	(587,363)	\$	(587,363)	\$	(3,889,128)	\$	(3,889,128)	\$	-	\$	(7,921,675)
NET CASH BASIS SOURCES (USES)	<u> </u>	87,051	\$	(266,236)	-\$	2,503,101	\$	(823,449)	\$	3,326,550	\$	(79,150)



## **5.0 Projects and Funding**

Project	MUD(s)	Funding	Current Phase	Budget(s)	Contract Amount(s)	Invoiced to Date	Contractual Completion	Status			
		2017 Bonds	Design		Des		Design is 55% complete. Site visits and				
				Bonds \$2,025,600	Bonds \$1,097,175	Bonds \$0	- May-24	coordination with entities and utilities ongoing.			
South Shore Gravity Main Rehabilitation	1 6 7			R&R \$322,134	R&R \$322,134	R&R \$277,635					
		R&R			Constr	uction		Construction estimated to begin April 2025.			
				Bonds \$10,486,750	Bonds \$0	Bonds \$0	TBD				
	7		Design	Design				Design - SJRA coordinating with			
		7 67 R&R		\$917,000	\$376,118	\$327,387	May-24	consultant to provide updates to drawings and			
WWTF No. 2 Tertiary Filter				Construction				specifications to advertise for			
Renewal	67							construction.			
								\$5,734,000	\$0	\$0	TBD
Lift Station Rehabilitation	All R&R		Design /		Des	ign		Funding for various pipe and valve replacements, coating of concrete, generator installations,			
		К&К	Construction	\$54,000	\$32,318	\$32,318	Aug-24	etc.			
				Construction							

Project	MUD(s)	Funding	Current Phase	Budget(s)	Contract Amount(s)	Invoiced to Date	Contractual Completion	Status
				\$792,000	\$567,136	\$470,048	Aug-24	Currently working on installation of generators and new control panels at several lift stations.
					Stu	dy		Final report was
WWTF No. 1 Master Plan	All	2017 Bonds	Study	\$500,000	\$500,000	\$334,949	Jan-24	received on January 15, 2024. The report was transmitted to the MUD Directors.
					Owner's Adv	isor Services		Approved at SJRA
Owner's Advisor for new WWTF No. 1	All	All R&R/Bond	R&R/Bond Procurement	\$550,000	\$534,096	\$0	Aug-25	February 2024 Board meeting. Kick-off meeting occurred on February 28, 2024.
	7 67	l R&R	Construction	Design				Bypass pump and piping has been set up to
WWTF No. 2				\$244,000	\$375,982	\$258,174	Mar-23	bypass lift station and do wet well piping
Headworks Rehabilitation				Construction				replacement.
				\$1,456,000	\$1,785,000	\$319,145	Aug-24	
Lift Station No. 1				Design				Final design work order approved at February
Gravity Main Bypass and Decommissioning	6	R&R	Design	\$168,150	\$145,163	\$0	Feb-25	2024 Board meeting. Kick-off meeting scheduled for March 12, 2024.
Wastewater				Design				Project is to determine feasibility of removing
Conveyance Optimization	6	2017 Bonds R&R	Study	Bonds \$689,000	Bonds \$747,749	Bonds \$101,076	Apr-24	up to five lift stations from service and



Project	MUD(s)	Funding	Current Phase	Budget(s)	Contract Amount(s)	Invoiced to Date	Contractual Completion	Status
				R&R \$41,000	R&R \$0	R&R \$0		replacing with gravity main. Study is ongoing
				Ş41,000 	Constru			and approximately 60% complete.
				\$0	\$0	\$0	TBD	
					Des	ign		Project is to construct a
_				Cash \$19,980 R&R	Cash \$19,980 R&R	Cash \$19,980 R&R	Nov-23	metal building for the storage and repair of pipes, pumps, motors, etc.
Emergency Repair Service	6			\$21,020	\$11,136	\$11,136		
Center (WWTF		Cash R&R	Procurement		Constru	The construction		
No. 2 Storage Building No. 2)		KKK		Cash \$10,685	Cash \$5,897	Cash \$5,897	TBD	contract was approved at the February 2024 Board meeting. Preconstruction conference scheduled for March 4, 2024.
				R&R \$459,000	R&R \$483,963	R&R \$13,224		
					Des	Working on functionality of existing		
Digital Water System	All	R&R	Design	\$250,000	\$248,600	\$239,073	Aug-24	dashboards and planning for predictive analysis, financial model integration, and project planning.
Town Center	Metro 6 36 60	6 36 R&R			Des		Design is 97% complete.	
Water Line Renewal			36 R&R Design	\$754,000	\$1,046,283	\$844,902	Feb-24	Metes and bounds for easements being finalized, but not



Project	MUD(s)	Funding	Current Phase	Budget(s)	Contract Amount(s)	Invoiced to Date	Contractual Completion	Status		
	67			Construction				currently moving forward with easement		
				\$4,917,000	\$0	\$0	TBD	acquisition. Design completion on hold.		
AC Water Lines					Stu	dy		Developing scope and fee for study of AC		
Condition Based Assessment	All	R&R	Study	\$1,600,000	\$0	\$0	TBD	water lines. Will take work order to SJRA March 2024 board for approval.		
					Design			Project is to add redundant water line on		
Harper's Landing	39	R&R	Procurement	\$125,000	\$57,123	\$50,412	Sep-23	Harper's Landing. Contractor mobilized		
Water Line Loop Install				Construction				end of February 2024		
				\$478,000	\$244,585	\$2,491	TBD			
				Design				Construction contractor selected and		
Pressure						\$10,000	\$12,379	\$5,138	May-23	- construction started late-January 2024. Project 90% complete.
Regulating Valve on Grogan's Mill	60	R&R	Construction		Constr	uction				
<b>3</b>				\$94,000	\$137,266	\$4,764	Apr-24			
Water Plant Nos.	36			Design			Consultant submitted			
1, 2 & 3 Generators	47	R&R	Design	\$201,000	\$165,199	\$148,986	Mar-24	100% signed/sealed documents on		



Project	MUD(s)	Funding	Current Phase	Budget(s)	Contract Amount(s)	Invoiced to Date	Contractual Completion	Status
			Construction					December 26, 2023.  Construction to
				\$2,209,000	\$821,443	\$256,641	TBD	advertise March or April 2024.
					Des	Construction in		
		7		\$119,000	\$0	\$0	Mar-23	progress. In-well work complete at Well 5 and on-going at Well 11.  New mechanical
Water Well Nos.	47				Constr	uction		
5, 11 & 32 60 Rehabilitation 67	R&R Constru	Construction	\$1,313,000	\$946,984	\$195,608	May-24	equipment soon to arrive. In-well work almost complete at Well 32 and equipment on order. Project on track.	
	47	Cash R&R	Design	Design			Work order for	
				Cash \$0	Cash \$0	Cash \$0	N4- 25	preliminary design approved at SJRA December 2023 board meeting. Kick-off scheduled for January
Elevated Storage Tank No. 6				R&R \$570,000	R&R \$612,047	R&R \$30,360	May-25	
					Constr	22, 2024. Working on		
				\$0	\$13,750	\$13,750	TBD	preliminary engineering.
Water Well Nos.					Des	L	Project advertised on	
22, 26 and 33 Rehabilitation and Water Well No. 2 Abandonment	36 39 46 67	R&R	Design	\$114,000	\$0	\$0	Feb-24	February 9, 2024. Proposals are due on March 14, 2024.



Design includes all cost to prepare for construction, including:

- Planning & permitting
- Engineering & design
- Land acquisition

Construction includes cost related to construction, including:

- Construction
- Construction phase services (CPS)
- Construction management & inspection (CM&I)
- Construction material testing (CMT)
- Equipment Purchase/Procurement

- **D** references Design
- **C** references Construction
- **B** references Bonds
- **S** references Study
- **Green** New projects

**Yellow** – Closed projects



## **WOODLANDS ACRONYMS AND DEFINITIONS**

<b>ACRONYMS</b>		<b>DEFINITIONS</b>			
FY	Fiscal Year	SJRA WO Division	Located in southern Montgomery County, the Woodlands Division provides wholesale water		
FYTD	Fiscal Year To Date		supply and wastewater treatment services to the 100,000-plus population of The Woodlands through the financing, construction, operation, and		
KPI	Key Performance Indicator		maintenance of three regional wastewater treatment plants, a wastewater conveyance system with thirty plus lift stations, five water plants, thirty eight water wells, six elevated and eight ground		
LSGCD	Lone Star Groundwater Conservation District		storage tanks, and miles of wastewater collection and potable water distribution lines		
		SJRA GRP Division	Division of the SJRA responsible for GRP		
MGD	Million Gallons Per Day		compliance, and the management, administration, operation and maintenance of the surface water		
SJRA	San Jacinto River Authority		facilities and surface water transmission system. The GRP Division operates and maintains a 30 MGD surface water treatment facility and 55 miles of		
TCEQ	Texas Commission on		transmission water lines.		
	Environmental Quality	Surface Water	Surface water comes from rivers and lakes and receives a high degree of treatment and disinfection prior to being distributed to customers.		
		Groundwater	The water that fills cracks, voids, and other openings in beds of rocks, sand, and soil is called groundwater. It is found in soils and sands that are able to retain the water — much like a sponge holds water — and is constantly replenished by rainfall or snow.		
		Wastewater Treatment Plant (WWTF) No. 1	WWTF No. 1 is located north of Sawdust Road, has a design capacity of 7.8 million gallons per day (MGD), and is permitted for a 2-hour peak flow of 18.0 MGD. The WWTF receives raw sewage (influent) from residential dwellings and commercial businesses.		
		Wastewater Treatment Plant (WWTF) No. 2	WWTF No. 2 is located on Research Forest, has a design capacity of 6.0 MGD, and is permitted for a 2-hour peak flow of 15.6 MGD. The WWTF receives raw sewage (influent) from residential dwellings and commercial businesses.		
		Wastewater Treatment Plant (WWTF) No. 3	WWTF No. 3 is located in Harpers Landing and has a permitted flow of 0.900 MGD. The WWTF receives influent from residential dwellings and a few commercial businesses.		