



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for February 2019

WASTEWATER

Parameter	WWTF No. 1 (Outfall 001)		WWTF No. 2		WWTF No. 3			
	<u>Permitted</u>	<u>Reported</u>	<u>Permitted</u>	<u>Reported</u>	<u>Permitted</u>	<u>Reported</u>		
Flow (avg.-high; MGD)	7.8 avg.	3.236-3.470	6.0 avg.	3.764-4.513	0.9 avg.	0.535-0.635		
2-Hour Peak Flow (MGD)	18	02-03-2019		02-20-2019		02-09-2019		
Rainfall at Highest Peak		5.960	0.21"	15.56	9.310	0.17"	3.6	0.990
CBOD5 (30 Day avg.; mg/l)	10	2.9	10	2.4	10	6.5		
TSS (30 Day avg.; mg/l)	15	3.0	15	2.0	15	11.2		
NH3-N (30 Day avg.; mg/l)	3	0.1	2.6	1.1	3	0.2		
pH (min-max)	6.0 - 9.0	6.49-7.18	6.0 - 9.0	6.84-7.50	6.0 - 9.0	6.98-7.52		
DO (minimum; mg/l)	4.0 (min)	8.03	4.0 (min)	6.11	6.0 (min)	7.73		
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.03	NA	NA	1 mg/l (min) 4 mg/l (max)	1.05 3.85		
E.coli (max col/100 ml)	200	2.0	200	15.0	399	2.0		

* No Excursions

WATER

Parameter	January 2019		February 2019	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	5,567,000	3,586,000	5,673,000	3,531,000
Minimum (gal/day)	3,031,000	2,445,000	4,608,000	3,215,000
Peak-day (gal/day)	8,397,000	4,856,000	8,113,000	3,720,000
Monthly (gallons)	172,590,000	111,152,000	158,834,000	98,881,000
Percentage GW/SW	60%	40%	61%	39%
Average Avail. Capacity	67,951,000	NA	65,084,000	NA
Rainfall (inches)	6.33		2.00	
Total Usage	283,742,000		257,715,000	
Fiscal year-to-date blend	55% GW / 45% SW			

(Total water usage decreased 0.66% compared to February 2018)

Cumulative Total Water Usage: 541,457,000 gallons - February 2019

ENVIRONMENTAL

Parameter	February 2019
Current Total Permits	465
Interceptor Inspections	132
Enforcement Action Taken	12

PROJECT UPDATE
(As of February 28, 2019)

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
1	WPSP1 – Wastewater Treatment Facility No. 1 Solids Processing <u>Bond funded</u>	The contractor was given Notice to Proceed on December 5, 2018. The contractor has been working to complete underground piping installation, and is currently working to complete the building foundation.	Design \$630,000 Construction \$5,519,000	Design \$585,874 Construction \$5,199,818	\$5,785,692	\$683,347	Oct 2019
	WT1DW – Wastewater Treatment Facility No. 1 Additional Sludge Dewatering Unit <u>Capacity funded</u>	This project will be completed in conjunction with WPSP1 (above). WT1DW is a capacity project providing the additional belt filter press for the project.	Design \$16,721 Construction \$1,190,000	Design \$17,208 Construction \$949,255			
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	The Contractor is 98% complete with the installation of all interior components. Startup and testing has been postponed until new PPW system is in service, which is scheduled to be completed by early March 2019.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,327,404	\$6,766,650	\$6,098,121	Mar 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
3	WWFM5R – Lift Station No. 5 Force Main Replacement	Design of the project is ongoing. The consultant completed the 90% design on May 07, 2018. The 100% design submittal is underway; however, final completion is pending easement acquisition along McDonald Road. Easement acquisition is in progress. Completion of easement acquisition is anticipated to be complete by early summer 2019.	Design \$688,000 Construction \$4,510,000	Design \$527,496 Construction TBD	\$527,496	\$240,796	May 2021
4	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The design consultant provided the 90% design submittal on January 22, 2019. Contractor access routes and construction staging sites have been identified and developed, and are being discussed with landowners. Easement documents are being prepared to acquire the temporary easements. Also, have been coordinating with Cochran’s Crossing Village Association.	Design \$1,882,000 Construction \$16,299,000	Design \$1,065,459 Construction TBD	\$1,065,459	\$370,308	Apr 2020
5	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Partial Substantial Completion was issued on December 19, 2018 and punch list items were generated. Contractor is working on punch list items.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$543,193	\$669,559	\$626,006	Jan 2019
6	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor continues installation of on at- grade foundations, mechanical, and plumbing installations.	Design \$266,000 Construction	Design \$235,155 Construction	\$1,585,574	\$953,205	Apr 2019

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			\$1,459,000	\$1,350,419			
7	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Startup of site occurred on February 14, 2019 with no issues and partial substantial completion on March 1, 2019. Contractor working on punch list items.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$500,840	\$603,852	\$485,839	Feb 2019
8	WA17WL – Water Distribution – Looping Water Mains	Contractor has completed the installation of the water line along Ken Lakes Drive, Research Forest Drive, and Chipwyck Way/FM2978. Contractor will be addressing all punch list items and submitting documents for closeout. The replacement of the 12-inch water line crossing Panther Branch at Grogan’s Point has been added to this project. The construction contract for Alcott, Inc. dba TCA was approved at the SJRA Board of Directors meeting on February 28, 2019.	Design \$198,000 Construction \$972,000	Design \$36,708 Construction \$709,609	\$746,317	\$406,061	May 2019
9	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	Notice to Proceed was issued to contractor on December 17, 2018. Contractor completed cleaning and televising of Segment 35 (Sawdust and Grogan’s Point), and will commence installation of CIPP in March 2019.	Design \$60,000 Construction \$1,328,000	Design \$61,396 Construction \$1,277,079	\$1,338,475	\$62,672	Jul 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
10	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	Preliminary design is ongoing. Options for design were evaluated and discussed. The design consultant submitted a draft Preliminary Engineering Report (PER) on March 3, 2019. SJRA is reviewing the draft PER.	Design \$1,191,000 Construction \$5,279,000	Design \$500,863 Construction TBD	\$500,863	\$379,347	Mar 2022
	WW1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Capacity funded</u>	This project will be completed in conjunction with WWF1AB. WW1AB is a capacity project providing additional treatment capacity for the project.	Design \$117,000 Construction \$1,920,000	Design TBD Construction TBD	\$0	\$0	
11	WARB34- Water Well No. 34 Inspection	The Consultant prepared their draft report concerning the inspection of the well components and the video of the well shaft and submitted it on February 18, 2019. It is currently under review by SJRA.	Design \$0 Construction \$300,000	Design \$24,240 Construction \$29,115	\$53,355	\$35,937	Mar 2019
12	WA17SI – Water System Security Improvements	This project will enhance security for the Woodlands Division water facilities. Work at the water facilities is on-going and should be completed by Spring 2019.	Design \$0 Construction \$673,000	Design \$0 Construction \$673,401	\$673,401	\$593,472	Mar 2019

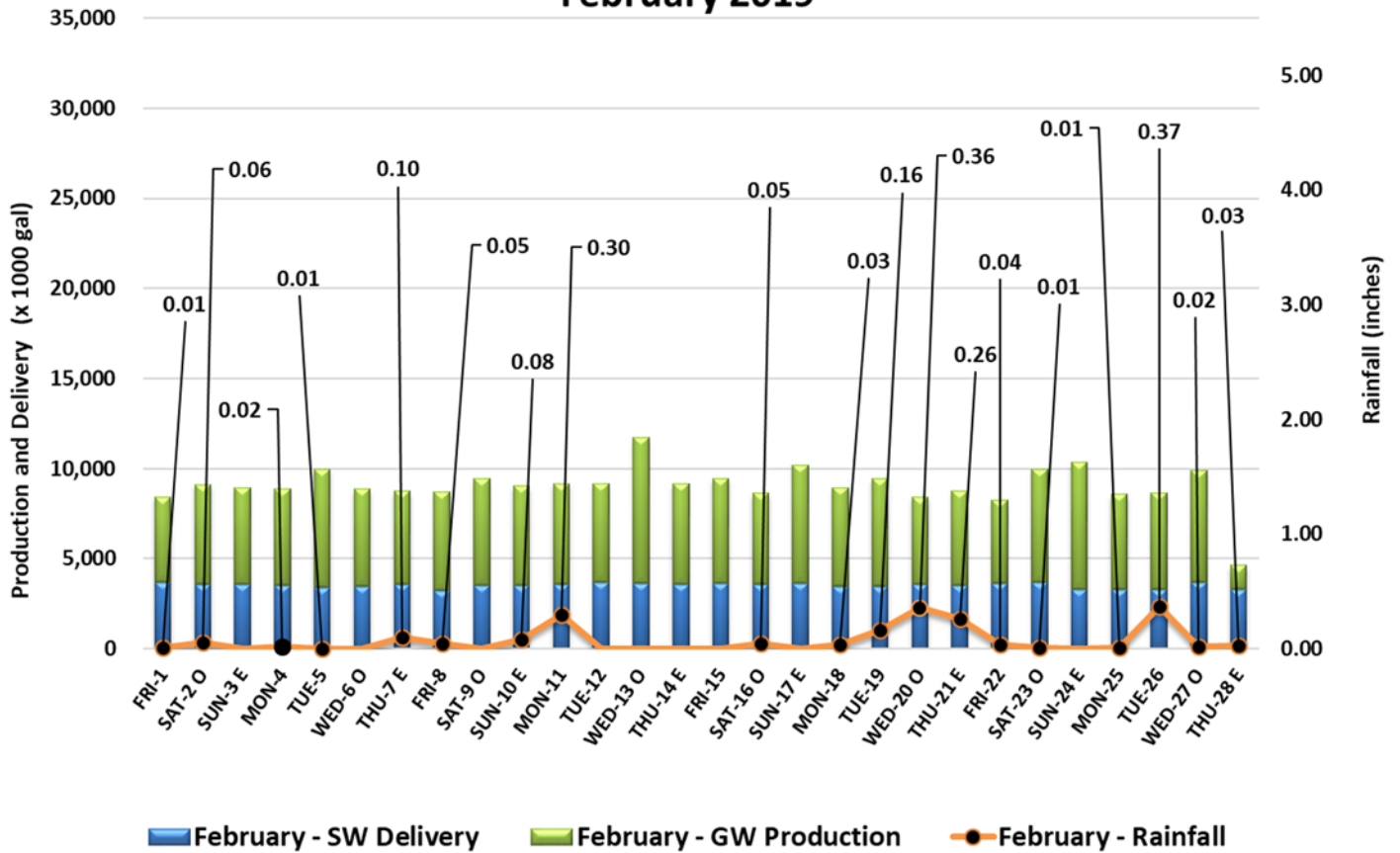
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
13	WWSES – Sanitary Sewer Transmission Assessment and Renewal (SSTAR) Program – Phase I Project	Phase I project consists of planning-level engineering to identify and investigate areas of excessive infiltration and inflow in the wastewater collection system, while conducting a condition assessment. The consultant completed field investigation to verify locations for flow monitoring equipment in January 2019. The consultant completed installation of rain gauges and flow monitoring equipment in February 2019.	Planning \$1,510,000	Planning \$1,758,675	\$1,758,675	\$69,706	Aug 2020
14	WW2MCC - Wastewater Treatment Facility No. 2 Plant Process Water (PPW) Motor Control Center (MCC) Replacement	This project includes the engineering services for the final design and procurement assistance for WWTF No. 2 PPW MCC replacement. The 90% design package was submitted on February 09, 2019. The 90% design comment review meeting is scheduled on March 8, 2019.	Design \$64,000 Construction \$322,000	Design \$52,151 Construction TBD	\$52,151	\$29,095	Mar 2020
15	WA4GT2 - Water Plant No. 4 Ground Storage Tank No. 2 <u>Capacity Funded</u>	This project is for the construction of a second ground storage tank at Water Plant No. 4. The 60% design submittal workshop was held on February 19, 2019. The 90% Design workshop is scheduled for March 15, 2019.	Design \$620,000 Construction \$3,413,000	Design \$244,436 Construction TBD	\$244,436	\$62,578	Dec 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
16	WW19LS – Lift Station No. 13 Rehabilitation	This project is for the rehabilitation of Lift Station No. 13. Notice to Proceed for preliminary design was given on December 5, 2018. A kickoff meeting was held on December 8, 2018. Consultant provided the final PER on February 14, 2019. SJRA is negotiating with the consultant for the final design contract.	Design \$266,000 Construction \$1,460,000	Design \$74,633 Construction TBD	\$74,633	\$70,672	Sep 2020
17	WA19WR – Rehabilitation of Water Well Nos. 25 and 31	This project was designed in-house by SJRA to rehabilitate two water wells. This project will not increase the capacity of the wells, but repair and replace worn or damaged components. Also, the well pump assemblies will be lowered by 100 feet at both locations. The construction contract for Weisinger Incorporated was approved at the SJRA Board of Directors meeting on February 28, 2019.	Design \$20,000 Construction \$440,000	Design \$75,987 Construction \$436,127	\$512,114	\$0	Oct 2019

* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall February 2019



Woodlands Production and Delivery 2016 - 2019

