



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for July 2018

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.	3.357-7.449	6.0 avg.	3.805-5.835	0.9 avg.	0.514-0.847
2-Hour Peak Flow (MGD)	18	24.16*	15.56	12.63	3.6	2.17
CBOD5 (30 Day avg.; mg/l)	10	3.4	10	3.6	10	3.8
TSS (30 Day avg.; mg/l)	15	2.7	15	2.2	15	2.9
NH3-N (30 Day avg.; mg/l)	3	0.3	2.6	0.3	3	0.2
pH (min-max)	6.0 - 9.0	6.62-7.05	6.0 - 9.0	6.51-7.47	6.0 - 9.0	7.09-7.51
DO (minimum; mg/l)	4.0 (min)	6.59	4.0 (min)	6.24	6.0 (min)	7.07
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.02 3.87
E.coli (max col/100 ml)	200	2.0	200	41.0	399	2.0

* WWTF No.1, 2 hour peak flow violation due to July 4th storm.

WATER

Parameter	June 2018		July 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	10,196,000	10,906,000	9,882,000	10,882,000
Minimum (gal/day)	3,236,000	8,733,000	2,886,000	7,489,000
Peak-day (gal/day)	17,009,000	13,164,000	17,752,000	13,702,000
Monthly (gallons)	305,874,000	327,172,000	306,348,000	337,335,000
Percentage GW/SW	48%	52%	46%	54%
Average Avail. Capacity (MGD)	64,246,000	NA	63,753,000	NA
Rainfall (inches)	4.58		7.59	
Total Usage	633,046,000		643,683,000	
Fiscal year-to-date blend	55% Groundwater / 45% Surface water			

(Total water usage decreased by 9.38% compared to July 2017)

Cumulative Total Water Usage: 5,251,269,000 gallons – September 2017 - July 2018

ENVIRONMENTAL

Parameter	July 2018
Current Total Permits	465
Interceptor Inspections	150
Enforcement Action Taken	8

PROJECT UPDATE
(As of July 31, 2018)

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 project advertised for construction proposals in February 2018, and three (3) proposals were received March 1, 2018. The construction contract for Industrial TX Corp. was approved at the SJRA April 2018 Board meeting. TWDB completed its review of the construction contract, construction inspection contract, and construction materials testing contract, and authorized release of funds. A Pre-construction Conference is scheduled for early September.	Design \$630,000 Construction \$5,519,000	Design \$585,874 Construction \$5,179,793	\$5,765,667	\$540,739	Jul 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 \$937,000	\$954,208	\$17,208	

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	Contractor is working on backfill portion of the Chlorine Contact Basin. They are in the process of drying in the building and begun installation of interior components. Progress Meeting No. 8 took place on July 17, 2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,228,655	\$6,667,900	\$3,023,523	Nov 2018
3	WWFM5R – Lift Station No. 5 Force Main Replacement	Design of the project is ongoing. The consultant completed the 90% 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.	Design \$688,000 Construction \$4,510,000	Design \$503,136 Construction TBD	\$503,136	\$169,064	Jan 2020
4	WW1603 – Lift Station No. 5 Rehabilitation	Substantial Completion was awarded on June 5 th . The contractor is currently addressing punch list items identified during the substantial completion walkthrough.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,013,223	\$1,063,353	\$976,602	Aug 2018
5	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The final design contract was approved at the SJRA December 2017 Board meeting. TWDB completed its review of the final design contract and authorized release of funds. The final design kickoff meeting was held on April 10, 2018, and the design consultant was given Notice to Proceed on April 13, 2018. The design	Design \$1,882,000 Construction \$16,299,000	Design \$992,963 Construction TBD	\$992,963	\$370,308	Apr 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
		consultant provided the 60% design submittal on August 2, 2018. Contractor access routes and construction staging sites are being identified and developed.					
6	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor completed installation of 6-inch casing for chlorine solution line and duct bank, and will pour driveway the week of July 30, 2018.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$524,415	\$650,781	\$148,951	Sep 2018
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Installation of remaining new manholes and associated piping is in progress along with the installation of valve pad and fiber box.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,252,057	\$1,487,212	\$600,659	Sep 2018
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Rehabilitation of the wet well is in progress. Entergy transformer removed on July 19, 2018. Contractor to work on coating pipe, remove and regrade soil, pouring duct banks, and electrical work.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$480,730	\$583,742	\$264,038	Sep 2018
9	WA17WL – Water Distribution – Looping Water Mains	Preconstruction meeting held on July 18, 2018 and NTP issued for July 23, 2018. Contractor mobilized to Ken Lakes Drive first to complete that portion of work before school starts. Once complete they will mobilize to Research Forest area.	Design \$198,000 Construction \$972,000	Design \$36,708 Construction \$363,701	\$400,409	\$37,958	Aug 2018

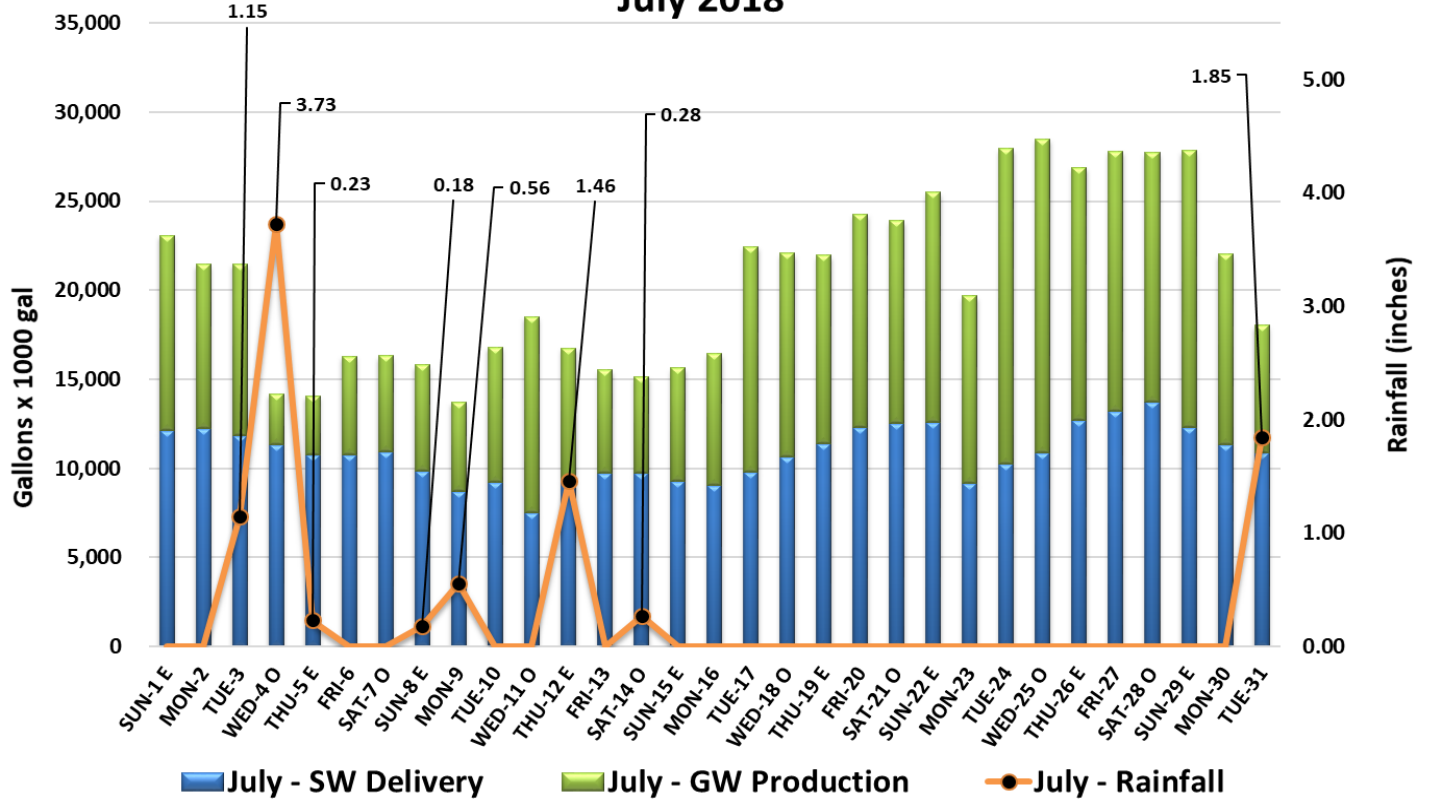
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
10	WA17CT – Communication Reliability and Tower Improvements	This project was designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. Allstate Tower was awarded the construction contract for replacement of the tower at Water Plant No. 2. Rebar for the tower base construction has been delivered. The tower is scheduled to be delivered by August 10, 2018.	Design \$38,000 Construction \$383,000	Design \$0 Construction \$76,727	\$76,727	\$21,933	Sep 2018
11	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	The design for this project is complete. Three (3) proposals for construction were received on June 28, 2018. SJRA is evaluating the construction proposals. The construction contract will be presented for approval at the SJRA August 2018 Board meeting.	Design \$60,000 Construction \$1,328,000	Design \$60,421 Construction TBD	\$60,421	\$49,586	Jul 2019
12	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	The preliminary design kickoff meeting was held on April 12, 2018, and the design consultant was given Notice to Proceed on April 13, 2018. Preliminary design is ongoing.	Design \$1,191,000 Construction \$5,279,000	Design \$500,863 Construction TBD	\$500,863	\$115,205	Sep 2020
	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 the additional treatment capacity for the project.	Design \$117,000 Construction \$1,920,000	Design TBD Construction TBD	\$0	\$0	

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
13	WARB34- Water Well No. 34 Inspection	This project is being designed in-house by SJRA Technical Services in order to rehabilitate Water Well No. 34 following mechanical issues that arose in late July 2017. The project is scheduled to advertise by early-August 2018. A consultant will assist with the inspection of the well components once they are removed.	Design \$0 Construction \$300,000	Design \$0 Construction TBD	\$0	\$0	Dec 2018
14	WA17SI – Water System Security Improvements	This project will enhance security for the Woodlands Division water facilities. Notice to Proceed was given to Preferred Technologies on January 29, 2018 for the work to be performed. Work is underway.	Design \$0 Construction \$673,000	Design \$0 Construction \$668,608	\$668,608	\$530,257	Oct 2018

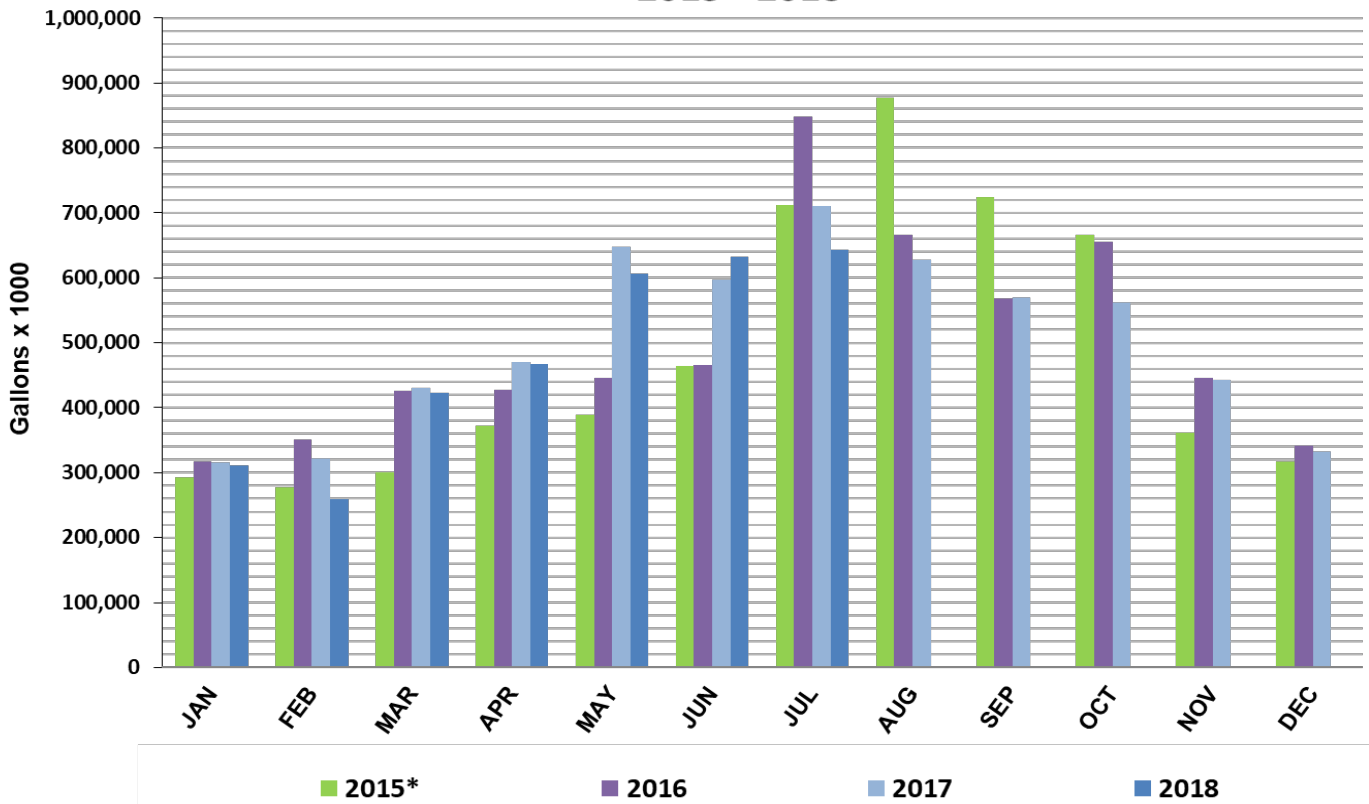
* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall July 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water Sep 2015