



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for November 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.	3.429-5.889	6.0 avg.	3.827-4.972	0.9 avg.	0.508-0.702
2-Hour Peak Flow (MGD)	18	12.930	15.56	5.890	3.6	2.130
CBOD5 (30 Day avg.; mg/l)	10	3.0	10	2.2	10	2.3
TSS (30 Day avg.; mg/l)	15	2.8	15	2.1	15	2.3
NH3-N (30 Day avg.; mg/l)	3	0.2	2.6	0.2	3	0.2
pH (min-max)	6.0 - 9.0	6.62-7.28	6.0 - 9.0	6.84-7.97	6.0 - 9.0	7.11-7.45
DO (minimum; mg/l)	4.0 (min)	7.41	4.0 (min)	6.29	6.0 (min)	7.18
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.13 3.79
E.coli (max col/100 ml)	200	2.0	200	12.0	399	2.0

* No Excursions

WATER

Parameter	October 2018		November 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	6,052,000	5,623,000	5,622,000	4,313,000
Minimum (gal/day)	4,437,000	4,887,000	3,880,000	3,928,000
Peak-day (gal/day)	8,794,000	6,359,000	7,356,000	4,929,000
Monthly (gallons)	187,599,000	174,322,000	168,669,000	129,397,000
Percentage GW/SW	52%	48%	56%	44%
Average Avail. Capacity	62,089,000	NA	65,031,000	NA
Rainfall (inches)	4.35		6.89	
Total Usage	361,921,000		298,066,000	
Fiscal year-to-date blend	53% Groundwater / 47% Surface water			

(Total water usage decreased 32.61% compared to November 2017)

Cumulative Total Water Usage: 1,116,396,000 gallons - November 2018

ENVIRONMENTAL

Parameter	October 2018
Current Total Permits	476
Interceptor Inspections	138
Enforcement Action Taken	9

PROJECT UPDATE
(As of November 30, 2018)

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
1	<p>WPSP1 – Wastewater Treatment Facility No. 1 Solids Processing</p> <p><u>Bond funded</u></p>	<p>The contractor was given Notice to Proceed on October 5, 2018 and has begun providing submittals. Construction is in progress and the contractor has mobilized to the site. The third progress meeting was held on November 28, 2018.</p>	<p>Design \$630,000</p> <p>Construction \$5,519,000</p>	<p>Design \$585,874</p> <p>Construction \$5,179,793</p>	\$5,765,667	\$638,412	Jul 2019
	<p>WT1DW – Wastewater Treatment Facility No. 1 Additional Sludge Dewatering Unit</p> <p><u>Capacity funded</u></p>	<p>This project will be completed in conjunction with WPSP1 (above). WT1DW is a capacity project providing the additional belt filter press for the project.</p>	<p>Design \$16,721</p> <p>Construction \$1,190,000</p>	<p>Design \$17,208</p> <p>Construction \$937,000</p>	\$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	The Contractor continues the process of drying in the building and installation of interior components. Progress meeting No. 12 took place on November 27, 2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,327,404	\$6,766,650	\$5,520,565	Jan 2019
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.	Design \$688,000 Construction \$4,510,000	Design \$527,496 Construction TBD	\$527,496	\$227,589	Mar 2020
4	WW1603 – Lift Station No. 5 Rehabilitation	Substantial Completion was awarded on June 5 th . The contractor has completed all punch list items. Working with contractor to close-out project.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,052,952	\$1,103,082	\$985,005	Aug 2018
5	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The design consultant provided the 60% design submittal on August 2, 2018. Contractor access routes and construction staging sites have been identified and developed, and are being discussed with landowners. Also, have been coordinating with Cochran's Crossing Village Association.	Design \$1,882,000 Construction \$16,299,000	Design \$994,459 Construction TBD	\$994,459	\$370,308	Apr 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
6	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor is bypassing influent wastewater around the lift station to a nearby manhole and coated the wet well. All electrical components have been removed from the old building and some components have been moved to the new electrical building. SCADA panel has been installed and remainder of electrical work is being completed before the Lift Station is put into service.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$534,711	\$661,077	\$411,536	Jan 2019
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor completed sinking of the lift station wet well into place. They are in the process of forming for foundation installation inside the wet well.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,263,640	\$1,498,795	\$798,879	Feb 2019
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	The transformer was placed and inspected on October 22, 2018 by Entergy. The contractor will continue to work to place junction boxes, place duct banks, and continue to work on electrical items.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$490,168	\$593,180	\$439,692	Jan 2019
9	WA17WL – Water Distribution – Looping Water Mains	Contractor has completed line at Ken Lakes Drive; partial substantial completion was given on 08/28/2018. Contractor has completed the work on Research Forest, and a partial substantial completion was given on 10/09/2018. The next location to start will be Chipwyck Way/FM2978. This work is scheduled to be	Design \$198,000 Construction \$972,000	Design \$47,879 Construction \$387,599	\$435,478	\$315,945	Feb 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
		<p>completed before the Christmas Holidays.</p> <p>The replacement of the 12-inch water line crossing Panther Branch at Grogan's Point has been added to this project. The geotechnical report has been received from Aviles Engineering. The procurement documents are being finalized.</p>					
10	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	<p>The design for this project is complete. Three (3) proposals for construction were received on June 28, 2018. A construction contract was awarded to IPR South Central at the SJRA August 2018 Board meeting. A preconstruction meeting was held on November 1, 2018. The contractor will be given a Notice to Proceed in early December.</p>	<p>Design \$60,000</p> <p>Construction \$1,328,000</p>	<p>Design \$61,917</p> <p>Construction \$1,277,079</p>	\$1,338,996	\$61,396	Jul 2019
11	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	<p>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.</p>	<p>Design \$1,191,000</p> <p>Construction \$5,279,000</p>	<p>Design \$500,863</p> <p>Construction TBD</p>	\$500,863	\$224,327	Sep 2020
	WW1AB – WWTF No. 1 Replacement of	<p>This project will be completed in conjunction with WWF1AB.</p>	<p>Design \$117,000</p> <p>Construction</p>	<p>Design TBD</p> <p>Construction</p>	\$0	\$0	

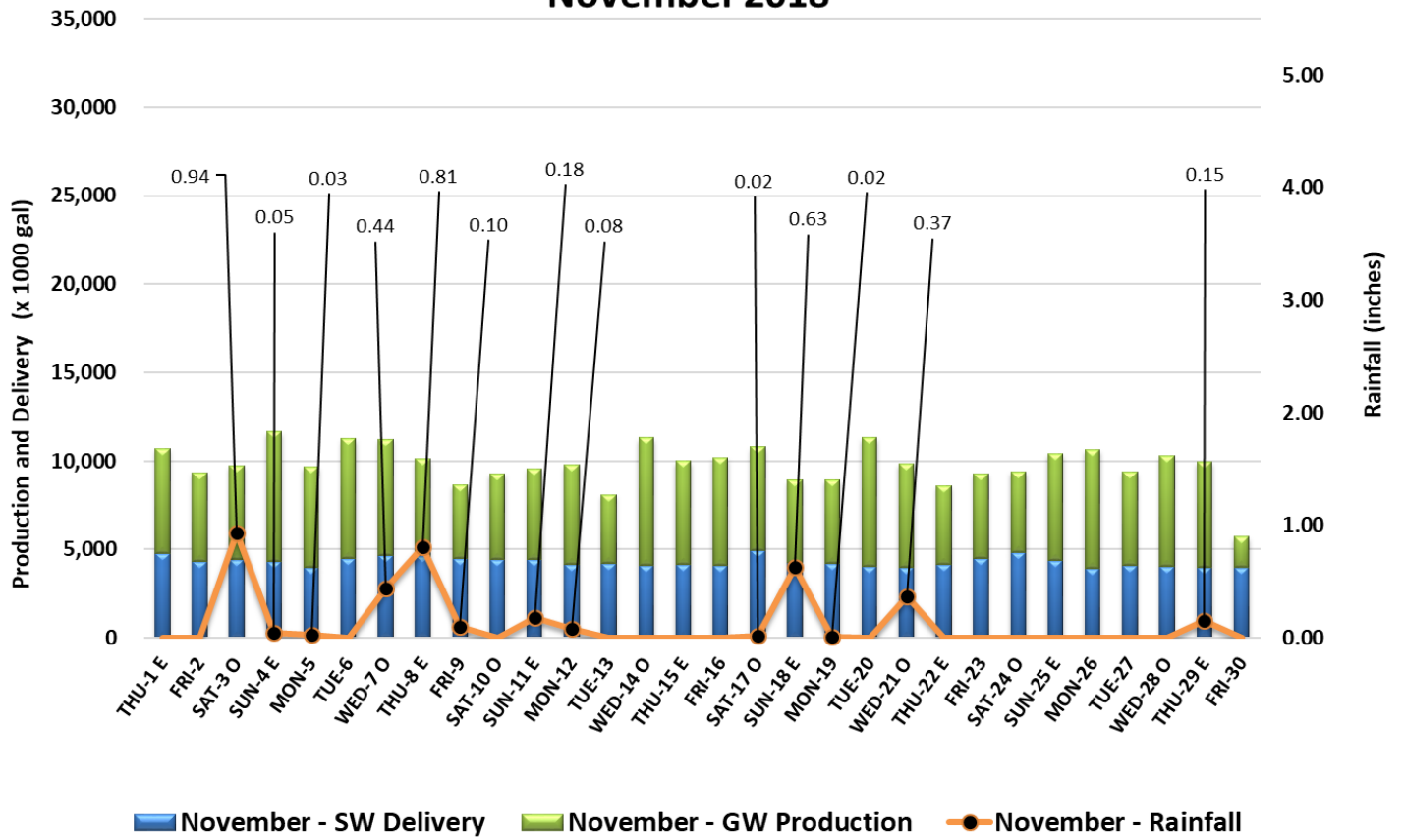
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
	Aeration Basin Nos. 1 and 2 <u>Capacity funded</u>	WW1AB is a capacity project providing additional treatment capacity for the project.	\$1,920,000	TBD			
12	WARB34- Water Well No. 34 Inspection	The Contract for the initial pulling, inspection and recommendations for repair was awarded to Weisinger Inc. The preconstruction meeting was held on November 30, 2018. Notice to Proceed is scheduled for December 10, 2018.	Design \$0 Construction \$300,000	Design \$24,240 Construction \$29,115	\$53,355	\$0	Jan 2019
13	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 early 2019.	Design \$0 Construction \$673,000	Design \$0 Construction \$673,027	\$673,027	\$534,677	Jan 2019
14	WWSES – Sanitary Sewer Transmission Assessment and Renewal (SSTAR) Program – Phase I Project	This 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 of the collection system. Work is underway. The consultant is performing field investigation to verify locations for flow monitoring equipment.	Planning \$1,510,000	Planning \$1,758,675	\$1,758,675	\$0	Aug 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
15	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. Notice to Proceed was issued to Kalluri Group Inc. and a kickoff meeting was held on October 16, 2018 Design is on-going.	Design \$64,000 Construction \$322,000	Design \$52,151 Construction TBD	\$52,151	\$0	Sep 2019
16	WA4GT2 - Water Plant No. 4 Ground Storage Tank No. 2	This project is for the construction of a second ground storage tank at Water Plant No. 4. Notice to Proceed for preliminary and final design was given to AECOM Technical Services, Inc. on November 7, 2018. A kickoff meeting was held on November 19, 2018. Preliminary design is ongoing.	Design \$620,000 Construction \$3,413,000	Design \$244,436 Construction TBD	\$244,436	\$0	Dec 2020
17	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 to Kimley-Horn on November 5, 2018. A kickoff meeting was held on November 8, 2018. Work is underway.	Design \$266,000 Construction \$1,460,000	Design \$74,633 Construction TBD	\$74,633	\$0	Sep 2020

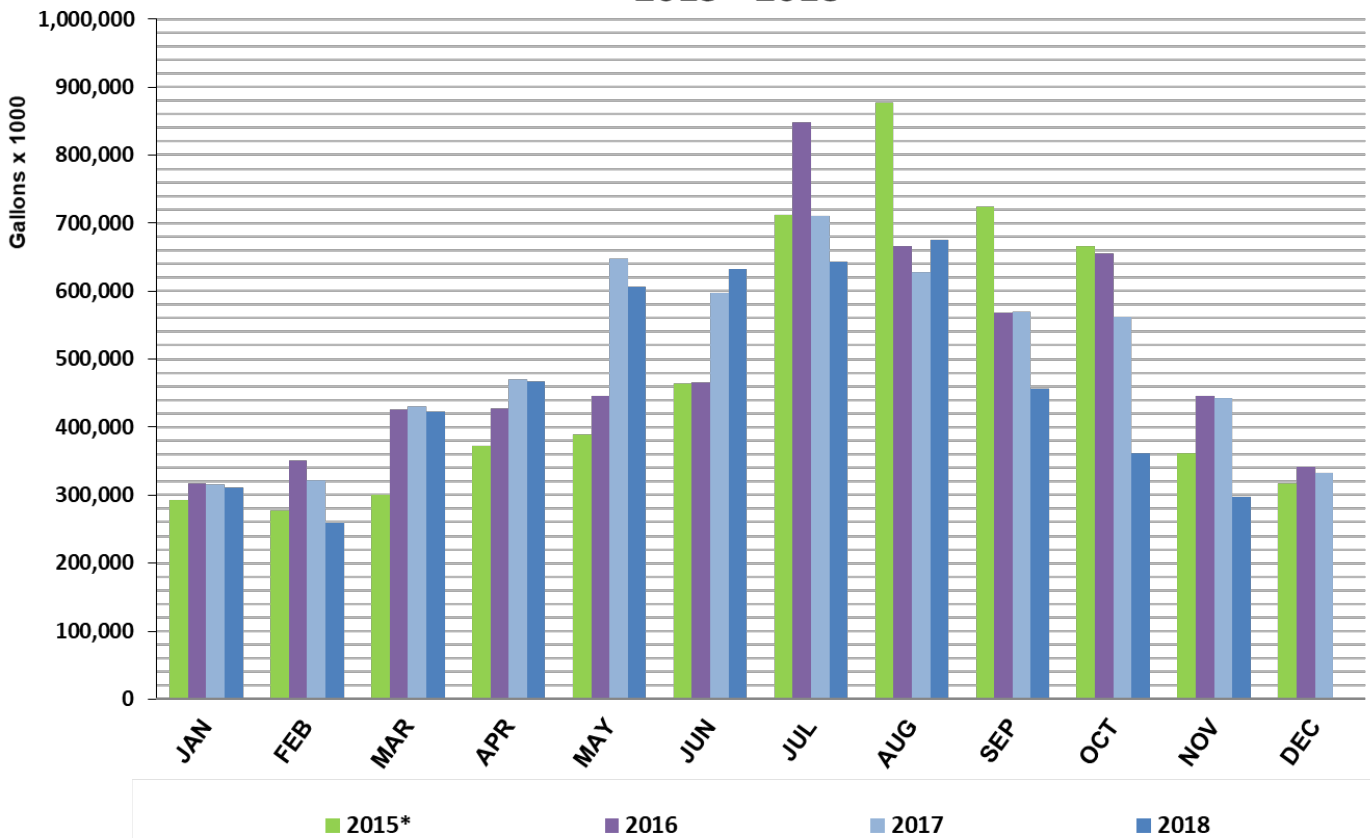
* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall November 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water Sep 2015