



# SAN JACINTO RIVER AUTHORITY

## Woodlands Division MUD Report for March 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.	3.299 –7.350	6.0 avg.	3.693-5.870	0.9 avg.	0.532-1.013
2-Hour Peak Flow (MGD)	18	14.800	15.56	9.440	3.6	1.450
CBOD5 (30 Day avg.; mg/l)	10	4.4	10	2.9	10	5.2
TSS (30 Day avg.; mg/l)	15	3.1	15	2.9	15	11
NH3-N (30 Day avg.; mg/l)	3	0.4	2.6	0.2	3	0.6
pH (min-max.; su)	6.0 - 9.0	6.67-7.20	6.0 - 9.0	7.03-7.66	6.0 - 9.0	7.01-7.71
DO (minimum; mg/l)	4.0 (min)	7.51	4.0 (min)	5.18	6.0 (min)	7.20
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.04 3.05
E.coli (max col/100 ml)	200	2.0	200	55	399	2.0

\* No Violations

### WATER

Parameter	February 2018		March 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	5,596,000	4,446,000	9,218,000	4,444,000
Minimum (gal/day)	3,458,000	3,949,000	5,137,000	2,863,000
Peak-day (gal/day)	12,881,000	5,339,000	14,703,000	5,328,000
Monthly (gallons)	173,474,000	137,832,000	285,752,000	137,765,000
Percentage GW/SW	56%	44%	67%	33%
Average Avail. Capacity (MGD)	63,528,000	NA	63,009,000	NA
Rainfall (inches)	8.50		5.32	
Total Usage	259,433,000		423,517,000	

(Total water usage decreased by 1.46% compared to March 2017)

Cumulative Total Water Usage: 994,256,000 gallons – Jan-Mar 2018

### ENVIRONMENTAL

Parameter	March 2018
Current Total Permits	465
Interceptor Inspections	58
Interceptor Enforcement*	7
Non-responsive FSEs**	8

\*Enforcement is limited to requirements for pumping of interceptor within 24-72 hours due to grease accumulation.

\*\*There are 55 FSEs who have not renewed their 2018 permits. We are currently revisiting each one.



**SJRA – Woodlands  
March 2018 Interceptor Program Update**

**Food Service Establishment (FSE) with no permit**

Establishment	Address
Panda Express	3375 College Park Dr.
Rico's	8000 Research Forest Dr. #200
Sweet's	1950 Hughes Landing Blvd.
La Cantina	6777 Woodlands Parkway
Ciltrano's	(kiosk inside The Woodlands Mall)
Taconation	8021 Research Forest Dr.
Blend Bar	1701 Lake Robbins Dr.
Mainly Subs	7 Switchbud Place Suite 194

**FSE's with enforcement to service their interceptors within 72 hours**

Establishment	Address
Amerigo's	25250 Grogan's Park Dr.
Red Salsa	1440 Sawdust Dr. Suite D
Pizza Hut	3071 College Park Dr. Suite 220
Atsumi	3335 College Park Dr. Suite 800
Mei Wei	30340 FM 2978 Suite 210
Republic Grille	4775 W. Panther Creek Dr. Suite 490
Luby's	922 Lake Front Circle.

**FSEs that have not renewed their permit**

Establishment	Address	Establishment	Address
Tournament Course	1730 S. Milbend Road, Woodlands TX 77380	PF Changs China Bristro	1201 Lake Woodlands Dr. #301
Shell #6	4725 West Panther Creek	Barnes & Noble	1201 Lake Woodlands Dr. #308
Wingstop #200	6777 Woodlands Parkway Suite 324, Woodlands TX 77382	Cheesecake Factory #0071	1201 Lake Woodlands Drive, Woodlands TX 77380
MOD Pizza	6777 Woodlands Parkway #314	Sweet Tomatoes	1717 Lake Woodlands Dr.
Orange Leaf Frozen Yogurt	6777 Woodlands Parkway #212	Woodlands Mall Landlord Vault #6	1201 Lake Woodlands Dr.
Subway #32099	6777 Woodlands Parkway Suite 318, Woodlands TX 77382	Macaroni Grill	1155 Lake Woodlands Dr.
La Cantina	6777 Woodlands Parkway, Spring TX 77382	Bonefish Grill #0911	1555 Lake Woodlands Dr. Woodlands TX 77380
Starbucks #10654	10716 Kuykendahl Rd	Carlos Bakery Kitchen	1201 Lake Woodlands Dr. #5600
Pei Wei Asian Dinner	10868 Kuykendahl Rd #E, Woodlands TX 77381	Pretzel Maker	1201 Lake Woodlands Dr. #1074
Which Wich	10868 Kuykendahl Rd	Auntie's Anne's	1201 Lake Woodlands Dr. #2014
Chiller's Bee Yogurt	10868 Kuykendahl Road #A	Sonic Drive In Vault # 7	1201 Lake Woodlands Dr. # 2164
Player's Golf Course	8900 Sterling Ridge Dr.	Great American Cookie Vault # 6	1201 Lake Woodlands Dr. #2145
Timewise Food Store #803	10190 Woodlands Pkwy	Berry Hill Baja Grill & Cantina	9595 Six Pines Dr. #250
Whataburger	30340 FM 2978	1252 Tapas Bar	9595 Six Pines Dr. #670
Subway #40390	30340 FM 2978 #700	Starbucks	9595 Six Pines Dr. #970, Woodlands TX 77380
Starbucks #13988	9955 Woodlands Pkwy	Cinemark Market Street 5 - #356	9595 Six Pines #8200
Burger King	10001 Woodlands Pkwy	Escalante's - Bldg. A&B	1900 Hughes Landing Blvd - #100
Churrascos Restaurant	21 Waterway Ave #140	Local Pour - Bldg. A&B	1900 Hughes Landing Blvd - #350
Goose's Acre	21 Waterway Ave #140	Macaron By Pattise	1950 Hughes Landing Blvd - #1775
Grimaldi's Burger	20 Waterway Ave #110	Whole Foods Market	1925 Hughes Landing Blvd, Site 100
Grimaldi's Pizza	21 Waterway Ave #110	Westin at The Woodlands	2 Waterway Square Place
Morton's Grille	25 Water Way	Anadarko Allison Tower	1201 Lake Robbins, Woodlands TX 77380
Marriott The Woodlands Waterway Hotel	1601 Lake Robbins Dr.	Kirby's Steakhouse	1111 Timberloch Place, Woodlands TX 77380
Hubbell & Hudson	24 Waterway Ave #125	Brookdale Senior Living Solutions	1730 Woodstead Ct, Woodlands TX 77380
Bar Louie, Travern & Grill	24 Waterway Ave #175	Huntsman Cafeteria	10003 Woodloch Forest Drive, Woodlands TX 77380
The Refuge Bar & Bistro	24 Waterway Ave - Suite 110	Timewise Food Store #275	1395 Many Pines
Burger Fi	1501 Lake Robbins #100	Children's Courtyard, The	10505 Six Pines Drive
Panera Bread # 4034	1201 Lake Woodlands Dr. Woodlands 77380		

**PROJECT UPDATE**  
(As of March 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 proposals were evaluated and a construction contract for Industrial TX Corp. will be presented to the SJRA Board at the April 2018 Board meeting. Following SJRA Board approval, TWDB will review the executed construction contract and the project will go to construction in Spring 2018.	Design \$630,000  Construction \$5,519,000	Design \$567,832  Construction TBD	\$567,832	\$540,739	Jan 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 \$16,721  Construction TBD	\$16,721	\$16,166	
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System <u>Improvements</u>	Contractor completed masonry exterior and the interior walls. Once masonry cures, coating of the building will begin. Foundation for Chlorine Contact Basin was installed on April 3rd, a total of 390 Cubic Yards of concrete was placed.	Design \$448,000  Construction \$6,500,000	Design \$439,245  Construction \$6,226,191	\$6,665,436	\$1,682,896	Nov 2018

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 60% design submittal and is now working toward the 90% design submittal. Working on easement acquisition process along McDonald Road.	Design \$688,000 Construction \$3,781,000	Design \$201,636 Construction \$TBD	\$201,636	\$118,277	Sep 2019
	WW1603 – Lift Station No. 5 Rehabilitation	The diversion pumping system is in place and operating. The Contractor has begun painting/coating the pipe, valves, and fittings. The Contractor has completed placing corrosion resistant wet well cement coating. The Contractor has completed removing and replacing the dry pit pumps, piping and valves.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,012,845	\$1,062,975	\$565,006	Aug 2018
4	WWBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	Completed contract negotiations with ARKK, and the final design contract was approved at the SJRA December 2017 Board meeting. TWDB has completed its review of the final design contract and authorized release of funds. The final design kickoff meeting is scheduled for April 10, 2018. TWDB is nearing the end of its review of the final design contract. A design kickoff meeting will be scheduled following TWDB approval.	Design \$1,882,000	Design \$370,308	\$370,308	\$370,308	Apr 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
5	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor will mobilize to this location in April 2018. Project is on schedule.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$524,415	\$650,781	\$137,324	May 2018
6	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor has mobilized to site and has begun installation of new manholes and associated piping. Installation of wet well will begin soon. Project is on schedule.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,252,057	\$1,487,212	\$325,532	May 2018
7	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Contractor has mobilized to site and will begin rehabilitation of lift station soon. Project is on schedule.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$474,146	\$577,158	\$107,847	May 2018
8	WA17WL – Water Distribution – Looping Water Mains	This project was designed in-house by SJRA Technical Services. Currently, working with Contractor to set date for mobilization, but work may start in April / May to allow for less interference with school traffic.	Design \$198,000 Construction \$972,000	Design \$36,708 Construction \$363,701	\$400,409	\$37,958	Jun 2018
9	WA1601 – Rehabilitation of Water Well Nos. 3 and 17	Contractor completed all punch list items associated with the project. All closeout documentation has been received and completed and final completion has been awarded.	Design \$38,000 Construction \$276,000	Design \$0 Construction \$400,705	\$400,705	\$400,705	Feb 2018

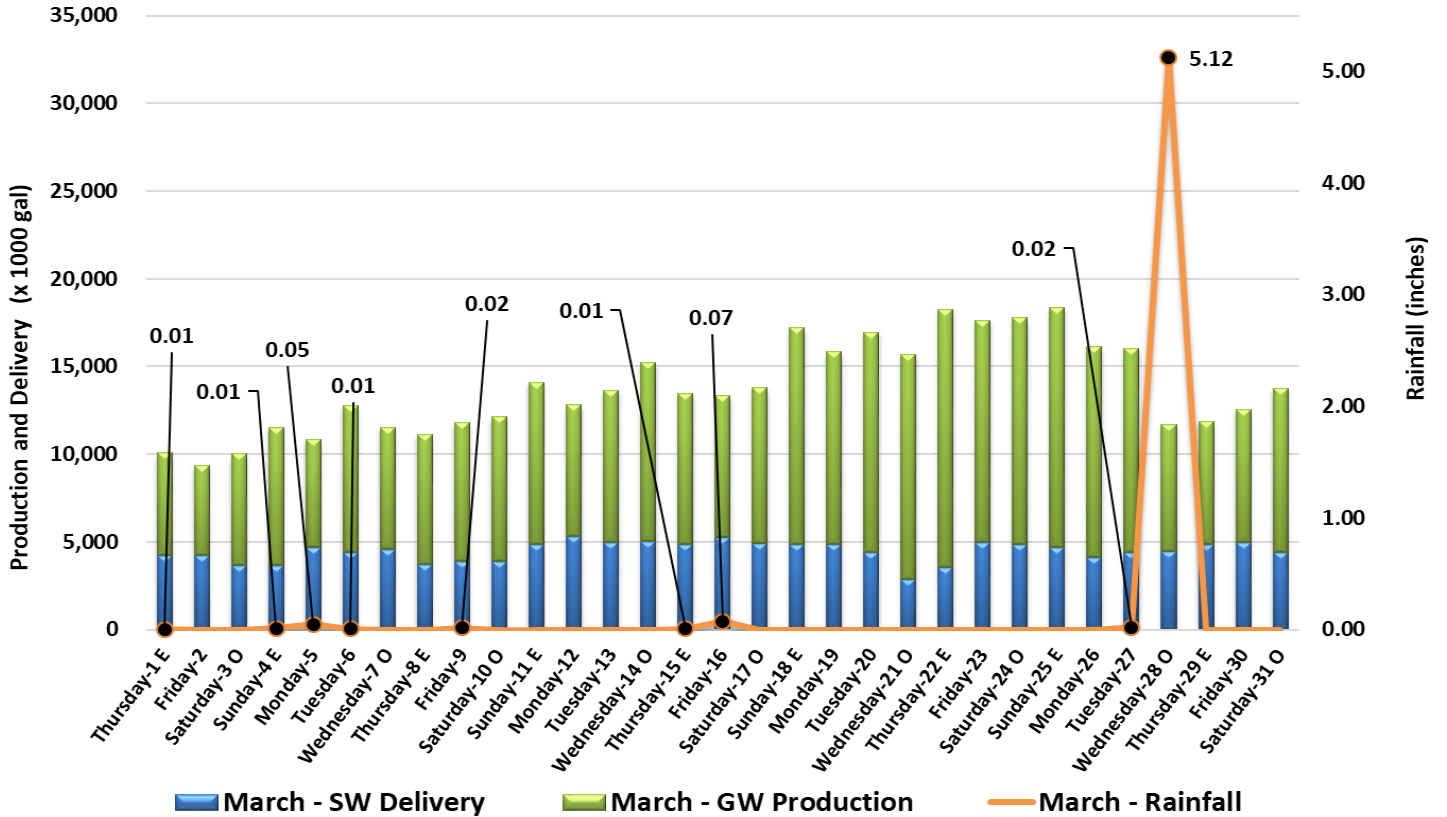
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
10	WAEST4 – Elevated Storage Tank No. 4 Rehabilitation	Substantial completion was issued March 22, 2018. Contractor is currently working on punch list items. Closeout documentation will be completed soon.	Design \$51,000 Construction \$603,000	Design \$36,410 Construction \$484,588	\$520,998	\$391,728	Apr 2018
11	WA17CT – Communication Reliability and Tower Improvements	This project is being designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. The procurement package is being finalized and will advertise in early April 2018.	Design \$38,000 Construction \$383,000	Design \$0 Construction \$21,360	\$21,360	\$21,568	May 2018
12	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	Design of the sanitary sewer rehabilitation is ongoing. The consultant completed the 90% design submittal, and is now working toward the 100% design submittal. The project will go to construction in Fall 2018.	Design \$60,000 Construction \$1,328,000	Design \$60,421 Construction TBD	\$60,421	\$47,072	Jul 2019
13	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	The preliminary design contract was approved by the SJRA Board at the SJRA January 2018 Board meeting. The preliminary design contract was presented to TWDB in February 2018 for review and approval; TWDB has approved the preliminary design contract and authorized release of funds. The preliminary design kickoff meeting is scheduled for April 12, 2018.	Design \$1,191,000 Construction 5,279,000	Design \$499,758 Construction TBD	\$499,758	\$1,105	Sep 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
	WW1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 Capacity funded	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	
14	WARB34- Water Well No. 34 Rehabilitation	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. Initially, procurement will include inspection only and a separate procurement package will be developed following inspection. The project is scheduled to advertise by mid-April 2018.	Design \$0 Construction \$300,000	Design \$0 Construction \$TBD	\$0	\$0	Sep 2018
15	WA175I – 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 \$573,000	Design \$0 Construction \$652,392	\$652,392	\$264,403	Sep 2018

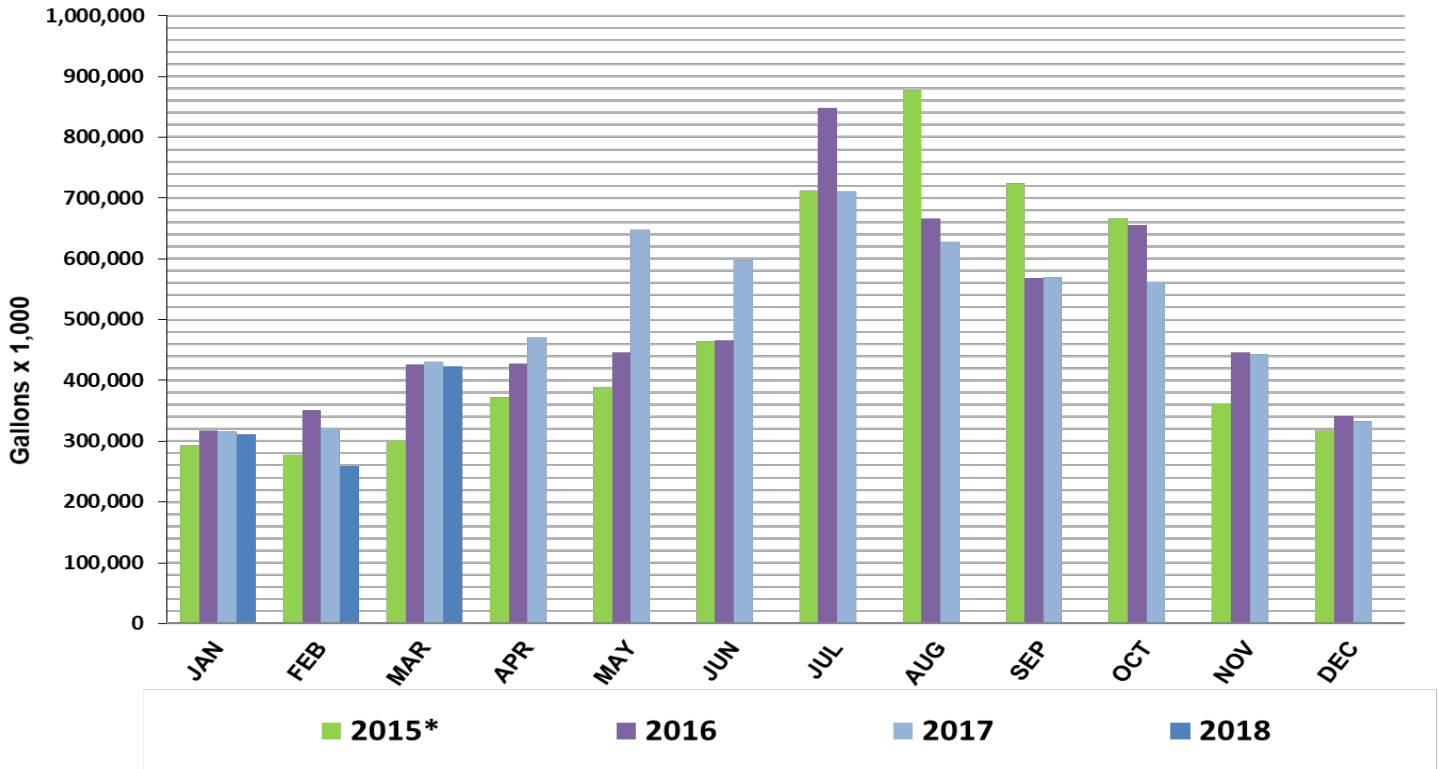
\* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

## Woodlands Production, Delivery and Rainfall March 2018



## Woodlands Production and Delivery 2015 - 2018



\*Introduction of surface water September 2015