Brazos River Authority City of Sugar Land Wastewater Operations FY 2018 Budget Update - Final as of August 4, 2017

			2017		2018
1	Base Fee	\$	1,409,647	\$	1,409,647
	Article V(a) states the base fee will be adjusted by an amount that is 100% of the increase or decrease, if any, up to 2.5%, in the most recently published Consumer Price Index as determined by the US Dept. of Labor-Houston Metro area. See attached 12 month rate change thru June 2017 of 1.6%.	<u></u>	4 400 047	\$	22,554
	Sub-Total Base Fee	\$	1,409,647	\$	1,432,201
2	Disinfection Chemicals	ı			
	Qty Unit Price Sodium Hypochlorite 225,974 \$ 0.65	¢	146,635		
	Sodium Prypodilione 223,974 \$ 0.00 Sodium Bisulfite 34,771 \$ 1.52		53,005		
	Sociali distille 54,771 \$ 1.52	Φ	55,005		
	Sodium Hypochlorite 240,900 \$ 0.65 Sodium Bisulfite 36,300 \$ 1.52			\$ \$	156,320 55,336
3	Sludge Hauling - For FY 18, unit price decreased from \$32.00 to \$31.37	_			
	Qty Unit Price				
	North Plant Sludge 6,000 \$ 31.40 South Plant Sludge 4,200 \$ 31.40	-	188,400 131,880		
	North Plant Sludge 6,600 \$ 31.37 South Plant Sludge 5,100 \$ 31.37			\$ \$	207,042 159,987
4	Additional Sampling required by new permits See detail in projected sampling section below	\$	19,040	\$	19,320
5	Repair & Maintenance (SLNP/SLSP)	\$	122,000	\$	122,000
6	Sugar Land South Plant Reclaimed Water Facility (Re-Use) See detail below - adjusted out Sugar Land staff time	\$	46,000	\$	23,550
	Sub-total before Additional Services	\$	2,116,606	\$	2,175,756
7	Additional Services (The City did not include this in their approved budget for FY 2017)				
	Replace #1 clarifier drive-SP	\$	60,000		
	Upgrade 35hp lift pump to 45hp-NP		50,000		
	Upgrade wasting process & piping system-NP		50,000		
	Valving repair at South Plant Replace all of the old gates in the aeration basin that do not work at the South Plant		20,000 15,000		
	Install shade net cover over reuse filtersSP		15,000		
	Upgrade NP lift pump VFD's		8,000		
	Replace 35 HP Lift Pump with 45HP pump and VFD's for Pumps #3 and 4 South Plant clarifier #1 and 2 upgrade (replace Drive Unit)			\$	120,000
	Upgrade wasting process and piping system				120,000 50,000
	* Thickened sludge pump (Press supply)				36,000
	Replace grit pump #1				20,000
	Install additional Grit washer				20,000
	Valving repair throughout South Plant				20,000
	Replace all non-functioning aeration gates				15,000
	Install shade cover over reuse filters				15,000
	Total Additional Services	\$	218,000	\$	416,000
	Grand Total	\$	2,334,606	\$	2,591,756

FY 2018 PROJECTED SAMPLING - SUGAR LAND WASTEWATER

Permit Changes	Sugar Land North	Vendor	# per year	Cost	Total
From \$180 per					
sample to \$495 per	Bio monitoring 7 day chronic (Inv)	BioAquatics	4	\$ 495.00	\$ 1,980.00
sample for 7 day					
	Bio monitoring 7 day chronic (Vert)	BioAquatics	4	495.00	1,980.00
	Bio monitoring 24hr Acute (Inv)	BioAquatics	2	45.00	90.00
	Bio monitoring 24hr Acute (Vert)	BioAquatics	2	45.00	90.00
	Sludge	DHL	1	709.00	709.00
	Stormwater Metals	DHL	9	106.00	954.00
	IPP Short Quarter	DHL	4	1,038.00	4,152.00
	IPP Long Quarter	DHL	2	1,519.00	3,038.00
New test	Ecoli	Envirodyne	156	40.00	6,240.00
`	DMRQA		1	150.00	150.00
	TSS	Central Basin Lab	700	24.57	17,201.00
	Ammonia as N	Central Basin Lab	388	33.89	13,150.99
	CBOD (Carbonaceous Biological Oxygen	Central Basin Lab	408	40.29	16,439.00
	Total Solids	Central Basin Lab	52	28.94	1,505.00
	NO3	Central Basin Lab	12	21.17	254.00
	NO2	Central Basin Lab	12	21.75	261.00
	Alkalinity	Central Basin Lab	104	23.40	2,434.00
	TP	Central Basin Lab	24	41.17	988.00
New test	1631E Mercury	DHL	8	270.00	2,160.00
·	TOTAL		1,893	•	\$ 73,775.98

Sampling costs under old permit 62,855.98

Additional Sampling Services for NP \$ 10,920.00

Permit Changes	Sugar Land South	Vendor	# per year	Cost	Total
	Bio monitoring 7day Chronic (Inv)	BioAquatics	4	\$ 495.00	\$ 1,980.00
	Bio monitoring 7day Chronic (Vert)	BioAquatics	4	495.00	1,980.00
	Bio monitoring 24hr Acute (Inv)	BioAquatics	2	45.00	90.00
	Bio monitoring 24hr Acute (Vert)	BioAquatics	2	45.00	90.00
	Sludge	DHL	1	709.00	709.00
	Selenium	DHL	104	23.00	2,392.00
	Stormwater Metals	DHL	8	106.00	848.00
	IPP Short Quarter	DHL	4	1,038.00	4,152.00
	IPP Long Quarter	DHL	2	1,519.00	3,038.00
New test	Ecoli	Envirodyne	156	40.00	6,240.00
	DMRQA		1	150.00	150.00
	TSS	Central Basin Lab	648	24.53	15,896.02
	Ammonia as N	Central Basin Lab	388	33.89	13,150.87
	CBOD (Carbonaceous Biological Oxygen	Central Basin Lab	508	40.59	20,619.97
	Total Solids	Central Basin Lab	156	28.95	4,516.00
	NO3	Central Basin Lab	12	21.17	254.00
	NO2	Central Basin Lab	12	21.75	261.00
	Alkalinity	Central Basin Lab	104	23.40	2,434.00
	Turbidity	Central Basin Lab	104	26.24	2,728.96
	TP	Central Basin Lab	24	41.17	988.00
New test	1631E Mercury	DHL	8	270.00	2,160.00
	TOTAL		2,252		\$ 84,677.83

Sampling costs under old permit 76,277.83

Additional Sampling Services for SP \$ 8,400.00

Databases, Tables & Calculators by Subject

Change Output Options:

2016 🗸

To: 2017 🗸

GO

 \square include graphs \square include annual averages

Data extracted on: August 4, 2017 (4:50:18 PM)

CPI-All Urban Consumers (Current Series)

CUURA318SAO Series Id: Not Seasonally Adjusted

Series Title: All items in Houston-Galveston-Brazoria, TX, all urban consumers, not seasonally adjusted

Houston-Galveston-Brazoria, TX

Item: All items 1982-84=100 Base Period:

Download: XI xIsx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	HALF1	HALF2
2016		214.505		215.513		217.305		216.582		218.200		217.758	216.414	215.237	217.592
2017		219.061		219.852		220.805								219.513	

12-Month Percent Change

Not Seasonally Adjusted

Series Title: All items in Houston-Galveston-Brazoria, TX, all urban consumers, not seasonally adjusted

Houston-Galveston-Brazoria, TX

All items Base Period: 1982-84=100

Download: XI xisx

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	Nov	Dec	Annual	HALF1	HALF2
2016		2.0		1.4		1.6		0.9		1.7		2.3	1.6	1.6	1.6
2017		2.1		2.0		1.6								2.0	

Brazos River Authority City of Sugar Land Reclaimed Water Treatment FY 2018 Budget Update - April 1, 2017

Estimated Annual expenses:

Labor cost - Sugar Land Staff (503 hours)	\$ 19,446
Labor cost - Other BRA Staff (22 hours)	1,746
E-coli and Turbidity sampling for reuse project (detail below)	7,421
Grounds Maintenance	3,500
Repairs & Maint	6,000
Instrumentation R&M	2,000
Administrative	2,883
Annual Total	\$ 42,996
Less - Sugar Land Staff Time	(19,446)
Estimated billings to the City	\$ 23,550

Brazos River Authority will invoice the City for actual expenses each month as they are incurred.

FY 2018 PROJECTED SAMPLING - SUGAR LAND RECLAIMED WATER TREATMENT

Sugar Land South RWTP	# per year		Cost	Total
Ecoli (Reuse/Permit)	104	\$	40.00	\$ 4,160
Turbidity (Reuse)	104	\$	31.36	\$ 3,261
		•	Total	\$ 7,421