

Gulf Coast Water Authority
Capital Improvement Program

Administrative (99)Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Office Vehicle (2016 F-150 Crew Cab 4X4)						35,000	35,000	35,000	75,000
Office Vehicle		35,000	35,000						
Office Vehicle				35,000					
Office Vehicle				35,000					
Office Vehicle (2014 F-150 Crew Cab 4X4)									35,000
Board Room Upgrades	11,058	11,100	10,000						
Tele-Conferencing Equip			5,000						
Security System			5,000	5,000					
Office Lighting			25,000						
Preliminary Layout for Operations Center				50,000					
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TOTAL BUDGET	11,058	46,100	80,000	125,000	0	35,000	35,000	35,000	110,000
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Gulf Coast Water Authority
Capital Improvement Program

Canal (08)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
Alvin Office, Shop, Yard and Buildings:									
Covered Storage						50,000			
Replace outside hydraulic lift at Shop									35,000
Replace inside hydraulic lift									35,000
Shop HVAC									15,000
Irrigation Meters 20@5,000	33,263	35,000	35,000			50,000		50,000	
Refurbish Fuel Station	689	35,000	35,000						
Alvin Office Electrical Improvements	18,225	25,000							
Alvin Office Repairs	7,832	7,832					25,000		
Alvin Yard Generator Pad	7,648	7,648							
Alvin Shop Improvements							100,000		
Vehicles & Equipment:									
1/2 Ton Pickups		28,000	28,000		56,000	28,000	28,000		112,000
3/4 Ton Pickups				76,000	38,000	38,000	38,000		190,000
1/2 Ton 4x4				65,000	32,500	32,500	32,500		120,000
1/2 Ton 4X4 Crew Cab									32,500
1 Ton 4x4 Truck (Crew & Shop)				50,000					200,000
Kyle						60,000			
Haul Truck, Tractor (International)								157,000	
Heavy Equipment Haul Trailer								70,000	
Haul Truck, Tractor (Mack #1)									157,000
Heavy Equipment Haul Trailer									70,000
Haul Truck, Tractor (Mack #2)									157,000
Heavy Equipment Haul Trailer									70,000
Short Boom Excavator 2011 # 1 (Tyler Dartez)					230,000				
Short Boom Excavator 2009 # 2 (Lee Cloud)	202,956	202,956	230,000						
Long Boom Excavator 2012 #1 50 ft reach (Cory Clark)									260,000
Long Boom Excavator 2010 #2 60 ft reach (Duane Crawford)									260,000
Long Boom Excavator 2009 #3 50 ft reach (Franklin Thompson)				260,000					
2009 Excavator #3 Undercarriage Bushings and Pins				35,000					
Long Boom Excavator 2013 #4 - 60 ft reach (Jason Hughes)									260,000

Gulf Coast Water Authority
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Canal (08)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
Long Boom Excavator 2015 #5 60 ft reach (Douglas Nicholson) - Cat 326									260,000
Dragline #2 Replace Tracks (Travis)								850,000	
Dozer 2013 #1 Replace (D61PX) (Kade)									260,000
Dozer 2007 Replace (John Deere 750) (Scott)				275,000					
Tractor (John Deere 5300)				75,000					
Side by Side UTV's with Trailer's				36,000		18,000	18,000		36,000
Rubber Tire Backhoe (replace CB 580 Case)									80,000
Water Quality Monitoring Equipment (routine/contamination)	5,522	35,000	35,000	35,000					
River Surveyor M9									
Replace Kaylin '95 Lowboy Trailer Vin 5418		80,000	75,000						
Trailer Mounted Hot Water Pressure Washer	21,577	21,577	22,000						
Skid Steer Loader/Trailer (Kubota)				80,000					
Replace Winch on Mack Haul Truck	17,600	17,600							

System "A" Shannon. Plant .

Pump Sets:	0	50,000	50,000	40,000	300,000		300,000		600,000
Replace Vacuum Pumps		10,000							
Reroute incoming power		5,000	40,000						
Extend Overhead Crane to the South			75,000						
Intake Pipe Support Structure Re-hab					60,000				
Switchgear and Relay Upgrade					100,000				
Discharge Gate Lifts (Total of 3)	19,112	32,000	30,000						
Recondition Intake Pipes			150,000		150,000				
Recondition Discharge Pipes			200,000		200,000				
Inspection of Discharge Pipes		10,000							
River Bank Rehab - (D)		20,000		80,000					
River Bank Rehab -(C)				375,000	375,000				
Shannon Takepoint Meter		130,000							

System "A1" Canal:

A1.011 Harrison Bridge Br-3									100,000
A1.018 Sugar Land Properties Br-6									100,000
A1.048A Pipe/Gate Replacement (Old 2nd Lift)				100,000					
A1.049 Pleasant Bridge Br-18					50,000				
A1.064 Brickyard Bridge Br-25									60,000

Gulf Coast Water Authority
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Canal (08)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
A1.0 Prison Farm Br-27, Ck-2 (C)							200,000		
Cullinan Park Bridges				25,000	25,000				
Cullinan Park Desnagging/Clear Right of Way				200,000					
A1.071B Brooks Lake Diversion Weir			400,000	250,000	250,000	250,000	250,000	250,000	750,000
A1.071D Dam # 3 Improvements									
System "A" 2nd Lift									
Pump Sets:					300,000		300,000		300,000
Vacuum Pump Replacement					30,000				
Discharge Gate Lifts				15,000					
A2.001 Security Fence From 2nd Lift to Oyster Creek								15,000	
System A2, ANE, L10 & G Canals:									
A2.019 Quail Valley East (50% Cost)									300,000
A2.019 Valley Forrest Dr Br-59 (50% Costs)									300,000
A2.019 Old #1 Check Rehab									50,000
A2.019 Turtle Creek Dr Br-60									500,000
A2..020 U - 10									250,000
A2.029 U - 13		25,000	25,000						
A2.029 Evergreen Check #9 Br-67									150,000
A2.029 Evergreen Bridge - Br-68									35,000
A2.029 U - 14									20,000
A2.030 U - 15									20,000
A2.031 U - 16		25,000	25,000						
A2.029 Crazy Bridge - Br- 69							30,000		
A2.037 U - 17	13,925	30,000	30,000						
A2.040 U - 18									30,000
A2.047 #4 Check Chk #10 - Rehabilitation									120,000
A2.57, 59 & 60 A SH 288, CR 94 & CR 101 (Slope Protection)					544,000				
A2.064 U - 20									35,000
A2.065 #5 Check Chk #11									50,000
A2.093 U - 23									30,000
A2.094 Oil Field Check #12									100,000
A2.094 Oil Field Br-79									50,000
A2.094 Greenwald Bridge									40,000

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Canal (08)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
A2.094 Underdrain below Greenwald - U-24									25,000
A2.100 Br-81									30,000
ANE.001 Coffee Check #17									225,000
ANE.001 County Rd 144 Br-82							50,000		
ANE.004 Moore Check #18									300,000
ANE.004 Highway 35 Br-83									
ANE.004 Mandale Bridge Br-84				55,000					
ANE.008 Willart Check #19									300,000
ANE.010 U - 33		75,000	30,000						
ANE.011 TV Check Chk 21	1,207	25,000	25,000						
ANE.011 U-34									80,000
ANE.012 U35								45,000	
ANE.012 Cox Check Chk 22	1,207	25,000	25,000						
ANE.013A U-36									80,000
ANE.013A Oil Field Bridge - Br-86									40,000
ANE.014A Blacky Bridge Br-87								50,000	
ANE.013 U-37								50,000	
ANE.013 Windmill Check Chk-24	1,207	25,000	25,000						150,000
ANE.013 Windmill Bridge Br-88									30,000
ANE.013 First Single Barrel Chk-25									30,000
ANE.013 2nd Single Barrel Chk-26									30,000
ANE.013 End of ANE Magnolia Creek									30,000
L10.001 Head of Lateral 10	146,909	227,000	125,000						
L10.006 Bridge 4 Replacement (Residential)					25,000				
L10.011 Bridge 6 (CR. 82) Iowa Lane									20,000
L10.015 to .025 Property Purchase - Lateral 10		15,000	200,000	403,000					
L10.017 Underdrain - U-4	24,548	30,000	30,000						
L10.018 Underdrain - U-6					30,000				
L10.021 Pipe Replacement Br-7									50,000
L10.023 State Hwy 6 Br-8						200,000	2,000,000		
L10.025 Santa Fe Railroad Br-10									1,500,000
L10.025 Channel widening L10.015 to L10.025				100,000	100,000				
G.001 Galveston Canal Take-Off Bridge Br-1									40,000
G.001 Segilquist Crossing Road Br-2									100,000
G.001 Dickinson Bayou Syphon U-1						250,000			
G.002 Mills Junction Check Chk-1,									150,000
G.004 Madera Creek Aerial Crossing (C)	92,196	80,000	100,000						

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DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
G.004 Br-4									40,000
G.004 FM 517 Br-5									1,000,000
G.006, Spillway #1				10,000					
G.006 Algoa/Friendswood Chk-2 & Br-6 Site # 8	120,948	450,000	500,000						
G.008 Bayou Wildlife Refuge Aerial Crossing GC DD1 Ditch 4									45,000
G.010 Rymal Rd Br-7						50,000			
G.011 GC DD1 Ditch 6 U-2						50,000			75,000
G.012 Field Crossing Br-8								60,000	
G.014 Field Crossing GC DD1 Ditch 7 U-3								60,000	
G.017 Jack Beaver Rd Br-9									100,000
G.018 U-3A Site 17									75,000
G.019 Aaberg Bridge Br-10									75,000
G.024 Cemetery Rd Check Br-11 Replace 72 inch valve		20,000	35,000		15,000				
G.039 Interstate 45 Chk 5 & Br-15 Replace valves	2,822	30,000	150,000	120,000					
G.040 FM 2004 Chk 6 & Br-16 Replace valves					35,000				
G.042 Hwy 3 BR 18 Pipe Replacement									5,000,000
G.043 Below Hwy 3 - Br. 19								25,000	
G.050 Attwater Rd Br-20									200,000

System B									
System B Briscoe Pump Station:									
Incoming power supply upgrade									
Pump Sets:	14,980	140,000	185,000	125,000					375,000
Vacuum Pump Replacement				30,000					
Switchgear and Relay Upgrade		100,000	100,000	30,000					
#1 & #2 Suction Pipe Extension				150,000					
Recondition Intake & Discharge Pipes (D)									40,000
Recondition Intake Pipes (C)									100,000
Recondition Discharge Pipes (C)	45,719	110,000		90,000					150,000
Discharge Gate Lifts (Total of 3)				25,000					
House Improvement		35,000	20,000	40,000					
Security Fencing	7,127	10,000	5,000						

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Canal (08)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
System "B" Canal									
Briscoe TCEQ Takepoint Meter	79,487	110,000							
B.003 Schindler Bridge Br-2									60,000
B.003A Reyes Bridge Br-5									40,000
B.003B Cow Bayou U-1									80,000
B.006 Arensburg Bridge Br-7								75,000	
B.006 Long Point Slough U-2				125,000					
Sand Move, B.003, 006, 006A						350,000			500,000
B.007 McKeever Rd Bridge Br- 9								80,000	
B.029 Number 1 Check Chk-1 Erosion Protection				75,000					
B.032 CR 383 Br-12								80,000	
B.036 Donald Ford U-4						100,000			
B.052 Chk 2								275,000	
B.053 Iowa Lane CR 82 Br-14						60,000			
B.055 U6 (downstream CR 82)								95,000	
B.055 Womack (Bissell) Rd Br-15 (downstream CR 82)								50,000	
B.058 Jordan Rd Br-16							50,000		
B.064 BCCRD#3 C12 U-7 (upstream Chk 3)								100,000	
B.066 Mad Dog Bridge Br-19						50,000			
B.068 Old Chk-4 Removal				25,000					
B.074 Old Chk-5 Removal				25,000					
B.082 Isaacs Bridge Br-21								50,000	
B.094 Chk-6									150,000
B.102 Canal Bank Stablization under TXDot Bridge (FM 2403)				100,000					
B.104 .105 Knight Flume Br 27 Chk 7								150,000	
B.118 .119 Chk-8						150,000			
B.122 U-11								75,000	
B.122 Alexander Bridge Br-31									60,000
B.126 Halls Bayou U-12								100,000	
B.133 U-13 (Syphon Under Drainage Ditch)									60,000
B.140 Pearson Rd Br-33 (inverted syphon)						300,000			
B.143 Oilfield Rd Br-34							30,000		
B.144 Pistol Packing Mama Br-35				50,000					
B.144 U-15								35,000	

Gulf Coast Water Authority
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Canal (08)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17 Sys A Down	Budget 16-17 Sys A Down	Budget 17-18 Sys B Down	Budget 18-19 Sys A Down	Budget 19-20 Sys B Down	Budget 20-21 Sys A Down	Budget 21-22 Sys B Down	Budget 6 TO 8 YRS
B.147 Cloud Bayou Chk-10						300,000			
B.147 FM 2004 Bridge 37 Chk-11 Gate Valve							30,000		
B.154 Board Rd Br-38						40,000			
B.156 U-18 (GCDD#1 Ditch 1B @ Achilles)				150,000					
B.158 Hollaway Br41 & Chk-12									60,000
M.005 Bridge #1							35,000		
M.XXX Levee rebuild Monsanto Canal									250,000
SCADA System Improvements:									
SCADA Improvements	11,108	145,000	200,000	200,000	200,000	200,000	200,000	200,000	600,000
TOTAL PROJECTS	897,814	2,484,613	3,240,000	4,000,000	3,145,500	2,626,500	3,716,500	3,047,000	18,944,500
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Total Cash Applied				-793,000					
BUDGET PROJECTS	897,814	2,484,613	3,240,000	3,207,000	3,145,500	2,626,500	3,716,500	3,047,000	18,944,500
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Gulf Coast Water Authority
Capital Improvement Program

Texas City Reservoir (25)/Industrial (26)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Vehicles & Equipment									
Pickup Truck 1/2 Ton		33,300	32,000		32,000			32,000	64,000
Reservoir and Canal:									
East Warehouse I	2,700	12,000	12,000						
West Warehouse				25,000					
0100 Reservoir Intake & Discharge Pipe and Gate Improvement (C)	1,816,667	5,000,000	6,500,000	6,330,000					
Drainage Improvements (East Levee along SH 146)		50,000	150,000	550,000	400,000				
Solar Powered Mixers						385,000	385,000	385,000	
SCADA Infrastructure - Reservoir		35,000	50,000	25,000	25,000	25,000	25,000	25,000	50,000
By Pass Canal Improvements:									
Rehabilitate Pipes, Gates and meters From Main Canal to By-Pass Canal	20,218	20,218							
01 Clayton Clark Shell Road		56,800	80,000						
02 1st Ditch Crossing		57,900	60,000						
03 Humble Camp Road		131,400	130,000						
Discharge Canal:									
01 Attwater Road Crossing - Slope Paving					140,000				
02 Oil Field Road									100,000
04 TC GC Timber Bridge						150,000			350,000
05 25th Avenue									2,100,000
Canal Levee Improvements			200,000	200,000	200,000				
Condition Assessment of I Canal Crossings		50,000	75,000	50,000					
Sub-Total Reservoir & Canal Budget	1,839,585	5,446,618	7,289,000	7,180,000	797,000	560,000	410,000	442,000	2,664,000
Bond for Reservoir Improvements	-1,816,667	-5,000,000	-6,500,000	-6,355,000	0				
Sub-Total Reservoir & Canal Collection	22,918	446,618	789,000	825,000	797,000	560,000	410,000	442,000	2,664,000
Emergency Reservoir:									
Pump Sets:							75,000		
Water blast and Paint Emergency Pump Station					15,000				
Valve Actuation		30,000	16,000						
SCADA Improvements				30,000					

Gulf Coast Water Authority
Capital Improvement Program

Texas City Reservoir (25)/Industrial (26)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Industrial Pump Station:									
Replace Pump Station (C)	232,927	2,000,000	11,715,000	10,000,000	6,000,000				
PUMP SETS	3,599	175,000	125,000	125,000	125,000	125,000	125,000	125,000	375,000
Pump Discharge Head				100,000					
Spare Bowl Assembly	76,360	150,000	70,000	75,000	75,000	75,000	75,000	75,000	210,000
Rotating Intake Screens Refurbish									150,000
IPS SCADA Improvements			20,000	20,000	20,000				
Transmission System									
Evaluation and assessments RWL	37	50,000	200,000	200,000	200,000	200,000	200,000	200,000	600,000
1948 42-inch CI RWL - Rehab/Replace									5,000,000
1949 30-inch CI RWL - Rehab/Replace									5,000,000
1951 18-inch CI RWL - Rehab/Replace		300,000	1,100,000	800,000					
Replace Meters	7,922	25,000	50,000						
General SCADA Infrastructure			25,000	25,000	25,000	25,000	25,000	25,000	75,000
Valves, Piping, and Cathodic Protection	135,939	500,000	700,000	1,000,000	1,500,000	1,500,000	1,500,000	1,500,000	3,500,000
Surveying and Markers			50,000	50,000					
Sub-Total Emergency Reservoir, Pump Station and Transmission System Budget	456,784	3,260,000	14,071,000	12,425,000	7,960,000	1,925,000	1,925,000	1,925,000	14,910,000
Bond Industrial Pump Station	-232,927	-2,000,000	-11,715,000	-10,000,000	-6,000,000				
Sub-Total Terminal Reservoir & Pump Station Collection	223,857	1,260,000	2,356,000	2,425,000	1,960,000	1,925,000	1,925,000	1,925,000	14,910,000
TOTAL PROJECTS	2,296,369	8,706,618	21,360,000	19,605,000	8,757,000	2,485,000	2,335,000	2,367,000	17,574,000
Total Proceeds from Bond Sale	-2,049,594	-7,000,000	-18,215,000	-10,205,000	-6,000,000				
BUDGET PROJECTS	246,775	1,706,618	3,145,000	9,400,000	2,757,000	2,485,000	2,335,000	2,367,000	17,574,000

Gulf Coast Water Authority
Capital Improvement Program

Thomas Mackey Water Treatment Plant (06)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Plant									
Maintenance Truck (2016 F-150 Crew Cab 4X4)		42,000	38,000						25,000
Operator Truck (2011 F-150 Single Cab)				38,000					38,000
Electrical Truck (2015 F-250 Super Duty Crew Cab 4X4)						38,000			38,000
Instrument Truck (2014 F-150 Cew Cab)		41,000	38,000						76,000
Instrument Truck (2007 F-250 Super Duty 4X4 Crew Cab)					38,000				38,000
Side by Side UTV							15,000		50,000
Sediment Pump				40,000					
Seven Foot Brush Hog									
Low Lift (100):									
PAC Feed System Replacement	71,190	72,000							
Low Lift Pump Station	9,613	14,000				200,000	200,000	200,000	625,000
P103 VFD Replacement		30,000	30,000						50,000
MCC/TR Replacement Design			150,000						
MCC Site Drainage		20,000							
Transformer Refurbishment and Installation				75,000					
Clarifier (200):									
Pipe Rack Rehab									50,000
RC 1 Rehab				150,000					150,000
RC 2 Rehab							150,000		
RC 1 & 2 Recycle Pumps								200,000	
RC 3 Launder (Weir) Rehab	65,367	200,000	150,000						80,000
RC 4 Rehab						200,000			200,000
RC Sludge Level Sensors					110,000			100,000	
RC Pump House HVAC									15,000
Clarifier Cover Tiles						120,000			
Clarifier Waste (300):									
Clarifier Waste Pump Stations	28,684			40,000	40,000	40,000		10,000	30,000
Clarifier Recycle Pumps:									60,000
P322 VFD									
3 & 4 Pump House Waste Flow Meter		15,000	15,000						
Filter (400):									
Filter Effluent Flow Meter (2 East & West)						35,000			50,000
Individual Filter Flow Meter (7-10)	11,477	24,000	20,000		20,000		20,000		50,000
Pipe Gallery Modifications			150,000			150,000	150,000	150,000	
Pipe Gallery Pipe Paint			15,000						20,000
Filter Turbidity Meters (12)					30,000				30,000
Filter Cover Tiles					30,000				
Filter Spare Air Scour Blower & Motor	1,724	1,725							
Filter 5 Influent Valve									
Chemical Feed Floor Resurfacing									
Filters (1-10) Influent/Effluent Valve Postioners		10,000	10,000	10,000	10,000	10,000	10,000		

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Capital Improvement Program

Thomas Mackey Water Treatment Plant (06)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Filter Rerate Turbidity Meters	11,275	12,000							
Filter Level Sensors				30,000					
Clearwell (500):									
Clearwell Pump Station	67,254	270,000	150,000	150,000	150,000	150,000	150,000		250,000
VFD (4)				40,000		40,000			40,000
Clearwell Effluent Flow Meter			25,000						
Replacement of Chlorine Analyzers (2)				25,000					
Distribution (600):									
Replacement of Chlorine Analyzers (1)	1,890	2,000		12,500					21,000
Distribution Pump Station	82,616	250,000	300,000	300,000	200,000	200,000	200,000	200,000	1,600,000
Distribution VFD Cells (2 Spares)									85,000
P604 & P605 VFD Repairs (450Hp)									120,000
Distribution/Recycle Header Pipe Rehab	3,200	35,000	35,000						
Distribution MCC									10,000
Distr MCC Switchgear Cleaning				50,000					
Distribution HVAC System									20,000
Distribution Flow Meters N-E & N-W							30,000		30,000
Paint Fill Lines For GST							25,000		
GST 601 and 602 Influent Flow Meters		40,000							
Distribution Suction Header Leak	5,900	5,900							
Temporary Pump at Distribution	15,405	15,500							
Backwash (700):									
BW Basin Pumps									64,000
BW Basin Piping & Meter Improvements		60,000	60,000						
BW Basin Stabilization				200,000					
Thickener (800):									
Thickener Pump Station	3,213	3,213		50,000		10,000		10,000	20,000
Thickener Drive Unit-Cathodic Protection	5,475	22,000							
Thickener Pump House Improvements	2,457	10,000	50,000						
Chemicals (900):									
Fluoride Feed System									20,000
Ferric Feed System		20,000	20,000						
Chemical Feed Automation		50,000	50,000						
Polymer Feed System - Pumps And Activation									50,000
Pre-Oxidation ClO2 Generator									50,000
Post Oxidation ClO2 Generator									20,000
Ammonia Feed System (LAS)									125,000
Chlorine Building Improvements	31,000	80,000	250,000	125,000					
Sodium Hypochlorite (Conversion From Gas)				100,000	2,500,000				
Zinc Phosphate System									10,000
Chemical Feed Pumps								10,000	30,000

Gulf Coast Water Authority
Capital Improvement Program

Thomas Mackey Water Treatment Plant (06)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
CI2 Hoist & Tractor System				15,000					
Control Building:									
Fire Alarm System				20,000					
Roof Replacement & Caulking	510,612	535,000	540,000						
Replace Transformer (Construction)	6,355	90,000	160,000	120,000					
Internal Clean & Paint						30,000			30,000
External Cleaning And Painting		30,000	40,000			60,000			60,000
Conference Room Upgrade		5,000	5,000						
Bathroom Expansion			150,000						
Rehab Elevator			75,000						
Plumbing Replacements					75,000				
Control Room:									
Operators Control Room Equipment	7,879	200,000	200,000						
Training Room Upgrade		10,000	10,000						
Laboratory:									
Zeta Potential Meter		32,000	20,000						
TOC Analyzer						45,000			45,000
GC/Mass Spec Analyzer								150,000	
Microscope							40,000		
Ion Chromatography					75,000				75,000
Analytical Balance			10,000	10,000					
Plant Wide:									
Plant Air Compressor & Dryer	19,653	45,000	30,000		30,000				50,000
Replace WTP Air System Piping		20,000	20,000						
Deep Well Anode - Rectifier Wiring		11,000	5,000						25,000
WTP Parking Lot		20,000	15,000						20,000
Plant Roads & Drainage			50,000	50,000			50,000		
In-Plant PLC Replacements				200,000				200,000	
LPU/Pipe Gallery Remote IO Replacements (prev In-Plant PLC Replacements (12))	57,886	260,000	200,000						
Perimeter Fencing Sediment Basin			50,000	50,000					25,000
Sediment Basin and Mono-Fill	536,094	600,000	1,300,000	1,200,000	900,000				
Piping Refurbishment / Painting					150,000			50,000	300,000
Water Quality Monitoring Equipment (to canal)				30,000					30,000
Hydraulic Improvements (D)				250,000					
SCADA Improvements	64,080	250,000	200,000	200,000	200,000	200,000	200,000	200,000	600,000
Customer Takepoint Improvements	87,121	140,000	60,000	120,000	120,000	60,000			60,000
Replace Cla-Val at WCID 12, Bayview & Baccliff									
Light Fixtures (Expense)									
Loading Dock Doors									
Transmission Line Cond Assessment (to distr)									
I&E Covered Material Storage			40,000						
UPS Replacement				20,000					

Gulf Coast Water Authority
Capital Improvement Program

Thomas Mackey Water Treatment Plant (06)

Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Security Camera Upgrades				35,000					
Wi-Fi Access Points				15,000					

Total Projects	1,707,420	3,743,338	4,771,000	3,770,500	4,678,000	1,588,000	1,240,000	1,480,000	5,560,000
Total Proceeds from 5 Year Note	0	0	-1,300,000						
BUDGET PROJECTS	1,707,420	3,743,338	3,471,000	3,770,500	4,678,000	1,588,000	1,240,000	1,480,000	5,560,000
=====									

Gulf Coast Water Authority
Capital Improvement Program

Galveston County WCID #12 (10)

Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Pipeline Rehabilitation	20,432	24,500	22,000	0	22,000	22,000	22,000	22,000	66,000
Bayshore Booster Pump Station		75,000		1,100,000					
TOTAL	20,432	99,500	22,000	1,100,000	22,000	22,000	22,000	22,000	66,000
Total Proceeds from Bond Sale/Reimbursements	-9,979	-89,000	0	-1,100,000	0	0	0	0	0
BUDGET PROJECTS	10,453	10,500	22,000	0	22,000	22,000	22,000	22,000	66,000

Gulf Coast Water Authority
Capital Improvement Program

North Line Distribution (23)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Pipeline Rehabilitation	11,373	13,000	40,000	40,000	40,000	40,000	40,000	40,000	120,000
Pipeline Study (5,000 LF)	1,440	20,000	43,800	43,800	50,000				
TOTAL	12,813	33,000	83,800	83,800	90,000	40,000	40,000	40,000	120,000

Gulf Coast Water Authority
Capital Improvement Program

Bayshore Group Distribution (24)

Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Pipeline Rehabilitation	45,264	55,000	36,800	36,800	40,000	40,000	40,000	40,000	120,000
TOTAL	45,264	55,000	36,800	36,800	40,000	40,000	40,000	40,000	120,000
	=====	=====	=====	=====	=====	=====	=====	=====	=====

Gulf Coast Water Authority
Capital Improvement Program

South Projects (14)

Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Pipeline Study (10,000 LF)	5,436	25,500	44,000	44,000	44,000	44,000			
Pressure Reducing Station Improvements	5,284	5,500	24,000						
Pipeline Rehabilitation	22,780	150,000	94,000	400,000	200,000	200,000	200,000	200,000	600,000
42in Pipe Rehab WTP to I-45									
42 in & 36in Pipe Rehab I-45 Virg Pt									
Alta Loma By-Pass	14,620	30,000	150,000	300,000					
TOTAL	48,120	211,000	312,000	744,000	244,000	244,000	200,000	200,000	600,000
	=====	=====	=====	=====	=====	=====	=====	=====	=====

Gulf Coast Water Authority
Capital Improvement Program

Galveston Series 1997 (12)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Galveston Line Rehabilitation	59,139	160,000	200,000	70,000	100,000	100,000	100,000	100,000	300,000
Feasibility Study - Galveston Bay Line	14,606	50,000	50,000						
Virginia Point Pressure Reducing Sta				630,000					
TOTAL	73,745	210,000	250,000	700,000	100,000	100,000	100,000	100,000	300,000

Gulf Coast Water Authority
Capital Improvement Program

La Marque (16)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
New Takepoint - I-45 S				50,000					
FM 1764 Pipeline				10,000	10,000	10,000	10,000	10,000	30,000
TOTAL	0	0	0	60,000	10,000	10,000	10,000	10,000	30,000

Gulf Coast Water Authority
Capital Improvement Program

Galveston Series 2002 (19)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
City of Galveston Capital Projects	0	0	495,000						
TOTAL	0	0	495,000	0	0	0	0	0	0
Total Proceeds from Bond Sale	0	0	-495,000						
BUDGET PROJECTS	0	0	0	0	0	0	0	0	0

Gulf Coast Water Authority
Capital Improvement Program

Chocolate Bayou (21)**Year Ending August 31, 2018**

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Vehicles & Equipment:									
Polaris 800XP					18,000			18,000	18,000
1/2 ton Pickup					28,000				28,000
1/2 Ton 4x4 Pickup		33,500	32,000	65,000		32,500		32,500	90,000
3/4 Ton 4X4 Pickup				38,000	38,000		38,000		114,000
Long Boom Excavator 60 ft Reach				260,000					260,000
Irrigation Meters 10 @ \$5,500 -	144,733	150,000	150,000	55,000	55,000	55,000	55,000	55,000	55,000
William J May Plant #1									
Recondition Intake Pipes (C)							100,000		
Recondition Wall Penetrations			12,000						
Recondition Discharge Pipes (C)									150,000
Recondition Discharge Gates (C)						25,000			
Pump Sets:				225,000	130,000	355,000	225,000		
Switchgear Upgrade			10,000	10,000					
Vacuum Pump					30,000				
10 Ton Overhead Crane			12,000	50,000					
Roof Hatch Additions for Pump Removal		40,000	40,000						
William J May Plant #2									
Pump Sets:					350,000	350,000	350,000		
Replace Discharge Flap Gates				50,000					
Support Structure Refurbishment		375,000	300,000	200,000					
Juliff Canal:									
Diversion Takepoint Meter (May TCEQ Meter)	53,111	110,000							
First Bridge Br 1									75,000
First Underdrain U-1						65,000			
Second Underdrain U-2							50,000		
Second Bridge Br 2						25,000			
Third Underdrain U-3		40,000							25,000
Third Bridge Br-3									30,000
Oyster Creek Flume							25,000		
Oyster Creek Flume SCADA									
Fourth Bridge Br-4								40,000	
Fourth Underdrain U-4					25,000				
Fifth Underdrain U-5			40,000		40,000				
Sixth Underdrain U-6						25,000			
CR 56 Br-5							40,000		
Gate #1 (Radial Gate) Refurbishment Chk-1									30,000
Seventh Underdrain U-7								30,000	
CR 54 U-8					40,000				
CR 53 BR-6									40,000
CR 53 U-9								30,000	
CR 53 U-10				25,000					

Gulf Coast Water Authority
Capital Improvement Program

Chocolate Bayou (21)**Year Ending August 31, 2018**

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Juliff Canal Chk-4 replacement						225,000			
Juliff Canal Smith Chk-6 Downstream Erosion	15,533	16,000							
Juliff Canal Brodden Chk-7 Downstream Erosion	7,113	7,500							
Juliff Canal Harper Chk-8 Downstream Erosion	8,695	9,000							
Juliff Canal Harpers Bridge Br-7									40,000
Juliff Canal Harpers Underdrain U-12									20,000
Pipes, Meters & SCADA @ Brunner Ditch									40,000
Juliff Canal Highway 35 Chk-10 Replacement above Hwy 25									25,000
Juliff Canal Highway 35 Chk-10 Erosion Control				20,000					
Juliff Canal Liverpool Bridge Br-8									50,000
Juliff Canal Liverpool Chk-11 Erosion Protection				20,000					
Juliff Canal U-12 (below Cr 171)									25,000
Juliff Canal Williams Chk-12 Erosion Protection									25,000
Juliff Canal Swichemer Br-10 & Chk-13									25,000
Juliff Canal Chk-14									20,000
Juliff Canal Red Combine Br-11									25,000
Juliff Canal Blue Valve Chk-15									20,000
Juliff Canal Scott Harriston Chk-16									20,000
JA Chk-1/Company Lock Radial Gate								25,000	
JA Cooper Chk-3						20,000			
JA Bonney Chk-5 Erosion Control				20,000					15,000
JA Austin Bayou Aerial Crossing 2							50,000		
JA Pipe Crossing 1								80,000	
JA JLC Pipe Crossing 2									25,000
JA Cornfield Chk-7		55,000	55,000						
JA Westfork Flores Bayou Pipe Aerial Crossing 5								20,000	
JA Spoor Bridge Br-3							15,000		
JN CR 48 Br 3									200,000
JN Br-5 Upstream of CR 67									7,500
JBL Takeoff Under Bruner Ditch									15,000
JBL Pipe Under Bruner Ditch									15,000
JBL Chk-1 Br-1									16,000
JBL Chk-2 Br-2					8,000				16,000
JBL U-1									15,000
JBL Br-3									15,000
JBL Br-4									15,000
JBL FM 1462 Bridge Crossing Br-6								200,000	
Juliff Canal Ck-1 Catwalk	5,601	6,500							
Chocolate Bayou									
Chocolate Bayou Shop									
Shop Office Improvements				50,000					
Chocolate Bayou Pump Station									
Pump Station Support Piling Rehabilitation	57,843	58,000	200,000	75,000					

Gulf Coast Water Authority
Capital Improvement Program

Chocolate Bayou (21)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Pumping Plant Replacement		50,000	150,000	500,000	5,000,000				
Pump Sets:		200,000	250,000	175,000	175,000				500,000
#1 Natural Gas Engine Replacement									25,000
#2 Natural Gas Engine Replacement/Refurbish									25,000
#3 Natural Gas Engine Replacement/Refurbish									25,000
#4 Natural Gas Engine Replacement/Refurbish									25,000
Replace Hinges, flap gates & Gaskets									25,000
Roof Replacement Pump Station									25,000
Salt Water Barrier Improvements (D & P)	4,278	50,000	50,000						
Salt Water Barrier Improvements (C)				1,400,000					
Chocolate Bayou Pump Station Office HVAC	7,987	8,000							
Chocolate Bayou Canal									
CB Br-1					75,000				
CB FM 2917 Br-2				60,000					
CB East FM 2403 Br-3									80,000
CB East FM 2403 U-2							20,000		
CB K-Pod Chk-1									60,000
CB Y Chk-3									30,000
CB Meter 1 Pipe, gate and meter replacement									125,000
CB South Reservoir Inlet		40,000	40,000						
CB West Mustang Reservoir Chk-6		25,000	25,000						
CB SW Mustang Reservoir Discharge Outlet		25,000	25,000						
CB Mustang Reservoir Levee Improvement							100,000	100,000	300,000
CB Ineos Canal Crossing Bridge Br-5								30,000	
CB Ineos Canal Chk-7 Br-6								30,000	
CB Ineos Canal Chk-8								25,000	
CB McGills Mustang Bayou Crossing	13,304	30,000	30,000						
CB Meter 3 Pipe, gate & meter replacement				10,000					
CB Meter 3 Canal Mustang Bayou Crossing									25,000
CB Meter 3 Canal Br-1									5,000
CB Meter 3 Canal Br-2									5,000
CB Meter 3 Canal Br-3									5,000
CB Meter 3 Canal Br-4									5,000
CB Meter 3 Canal Br-5								20,000	
CB Meter 3 Canal Br-6								20,000	
CB Meter 3 Canal Br-7								20,000	
CB Meter 3 Canal Chk-1 Br-8								30,000	
CB Meter 3 Canal Br-9									12,000
CB Meter 3 Canal Chk-2 Br10								30,000	
CB Meter 3 Canal Chk-3 Br-11								10,000	
CB Meter 3 Canal U-2									7,500
CB Meter 3 Canal U-3								15,000	
CB Meter 3 Canal Chk-4 Br-12								30,000	
CB Halls Canal Chk-1 Br-1					25,000				

Gulf Coast Water Authority
Capital Improvement Program

Chocolate Bayou (21)Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Mustang Bayou Pump Station									
Mustang Bayou MCC									30,000
Pump Sets:	0	50,000	50,000						30,000
Mustang Reservoir Equalizer Pipes								30,000	
Mustang Reservoir Gate 3									20,000
SCADA System Improvements:									
SCADA Improvements	22,561	53,000	50,000	150,000	50,000	50,000	50,000	50,000	150,000
	=====	=====	=====	=====	=====	=====	=====	=====	=====
TOTAL PROJECTS	340,759	1,431,500	1,521,000	3,458,000	6,087,000	1,227,500	1,118,000	970,500	3,144,000
Cash Applied for Salt Water Barrier	0	0	0	-1,485,000	0				
BUDGET PROJECTS	340,759	1,431,500	1,521,000	1,973,000	6,087,000	1,227,500	1,118,000	970,500	3,144,000
	=====	=====	=====	=====	=====	=====	=====	=====	=====

Gulf Coast Water Authority
Capital Improvement Program

LEAGUE CITY SEWPP (04)

Year Ending August 31, 2018

DESCRIPTION	YTD 2017 02/28/17	Forecast 16-17	Budget 16-17	Budget 17-18	Budget 18-19	Budget 19-20	Budget 20-21	Budget 21-22	Budget 6 TO 8 YRS
Highway 3 Line	1,063,879	1,200,000	462,000	0					
Southeast Transmission Line (SETL)				0					
Slip Line Calder Road	1,632								
South Shore 42-in									
TOTAL	1,065,511	1,200,000	462,000	0	0	0	0	0	0
Total Proceeds from Bond Sale				0					
BUDGET PROJECTS	1,065,511	1,200,000	462,000	0	0	0	0	0	0

Gulf Coast Water Authority
Capital Improvement Program

SEWPP - Pearland (22)

Year Ending August 31, 2018

DESCRIPTION -----	YTD 2017 02/28/17 -----	Forecast 16-17 -----	Budget 16-17 -----	Budget 17-18 -----	Budget 18-19 -----	Budget 19-20 -----	Budget 20-21 -----	Budget 21-22 -----	Budget 6 TO 8 YRS -----
Plant Expansion from 120-MGD to 200 MGD			0						
TOTAL	0	0	0	0	0	0	0	0	0
	=====	=====	=====	=====	=====	=====	=====	=====	=====