

BOND DEBT SERVICE

Galveston County MUD No. 45
Proposed Sereis 2019 Bond

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/01/2019			64,500	64,500	64,500
03/01/2020			129,000	129,000	
09/01/2020	155,000	4.000%	129,000	284,000	413,000
03/01/2021			125,900	125,900	
09/01/2021	160,000	4.000%	125,900	285,900	411,800
03/01/2022			122,700	122,700	
09/01/2022	170,000	4.000%	122,700	292,700	415,400
03/01/2023			119,300	119,300	
09/01/2023	170,000	4.000%	119,300	289,300	408,600
03/01/2024			115,900	115,900	
09/01/2024	180,000	4.000%	115,900	295,900	411,800
03/01/2025			112,300	112,300	
09/01/2025	185,000	4.000%	112,300	297,300	409,600
03/01/2026			108,600	108,600	
09/01/2026	190,000	4.000%	108,600	298,600	407,200
03/01/2027			104,800	104,800	
09/01/2027	200,000	4.000%	104,800	304,800	409,600
03/01/2028			100,800	100,800	
09/01/2028	210,000	4.000%	100,800	310,800	411,600
03/01/2029			96,600	96,600	
09/01/2029	215,000	4.000%	96,600	311,600	408,200
03/01/2030			92,300	92,300	
09/01/2030	220,000	4.000%	92,300	312,300	404,600
03/01/2031			87,900	87,900	
09/01/2031	225,000	4.000%	87,900	312,900	400,800
03/01/2032			83,400	83,400	
09/01/2032	235,000	4.000%	83,400	318,400	401,800
03/01/2033			78,700	78,700	
09/01/2033	245,000	4.000%	78,700	323,700	402,400
03/01/2034			73,800	73,800	
09/01/2034	255,000	4.000%	73,800	328,800	402,600
03/01/2035			68,700	68,700	
09/01/2035	260,000	4.000%	68,700	328,700	397,400
03/01/2036			63,500	63,500	
09/01/2036	270,000	4.000%	63,500	333,500	397,000
03/01/2037			58,100	58,100	
09/01/2037	275,000	4.000%	58,100	333,100	391,200
03/01/2038			52,600	52,600	
09/01/2038	290,000	4.000%	52,600	342,600	395,200
03/01/2039			46,800	46,800	
09/01/2039	300,000	4.000%	46,800	346,800	393,600
03/01/2040			40,800	40,800	
09/01/2040	310,000	4.000%	40,800	350,800	391,600
03/01/2041			34,600	34,600	
09/01/2041	320,000	4.000%	34,600	354,600	389,200
03/01/2042			28,200	28,200	
09/01/2042	335,000	4.000%	28,200	363,200	391,400
03/01/2043			21,500	21,500	
09/01/2043	345,000	4.000%	21,500	366,500	388,000
03/01/2044			14,600	14,600	
09/01/2044	360,000	4.000%	14,600	374,600	389,200
03/01/2045			7,400	7,400	
09/01/2045	370,000	4.000%	7,400	377,400	384,800
	6,450,000		4,042,100	10,492,100	10,492,100

BOND DEBT SERVICE

Galveston County MUD No. 45
Proposed Sereis 2019A Park Bond

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/01/2019			39,200	39,200	39,200
03/01/2020			58,800	58,800	
09/01/2020	65,000	4.000%	58,800	123,800	182,600
03/01/2021			57,500	57,500	
09/01/2021	70,000	4.000%	57,500	127,500	185,000
03/01/2022			56,100	56,100	
09/01/2022	70,000	4.000%	56,100	126,100	182,200
03/01/2023			54,700	54,700	
09/01/2023	75,000	4.000%	54,700	129,700	184,400
03/01/2024			53,200	53,200	
09/01/2024	80,000	4.000%	53,200	133,200	186,400
03/01/2025			51,600	51,600	
09/01/2025	85,000	4.000%	51,600	136,600	188,200
03/01/2026			49,900	49,900	
09/01/2026	85,000	4.000%	49,900	134,900	184,800
03/01/2027			48,200	48,200	
09/01/2027	85,000	4.000%	48,200	133,200	181,400
03/01/2028			46,500	46,500	
09/01/2028	90,000	4.000%	46,500	136,500	183,000
03/01/2029			44,700	44,700	
09/01/2029	95,000	4.000%	44,700	139,700	184,400
03/01/2030			42,800	42,800	
09/01/2030	100,000	4.000%	42,800	142,800	185,600
03/01/2031			40,800	40,800	
09/01/2031	100,000	4.000%	40,800	140,800	181,600
03/01/2032			38,800	38,800	
09/01/2032	105,000	4.000%	38,800	143,800	182,600
03/01/2033			36,700	36,700	
09/01/2033	110,000	4.000%	36,700	146,700	183,400
03/01/2034			34,500	34,500	
09/01/2034	110,000	4.000%	34,500	144,500	179,000
03/01/2035			32,300	32,300	
09/01/2035	120,000	4.000%	32,300	152,300	184,600
03/01/2036			29,900	29,900	
09/01/2036	120,000	4.000%	29,900	149,900	179,800
03/01/2037			27,500	27,500	
09/01/2037	130,000	4.000%	27,500	157,500	185,000
03/01/2038			24,900	24,900	
09/01/2038	135,000	4.000%	24,900	159,900	184,800
03/01/2039			22,200	22,200	
09/01/2039	140,000	4.000%	22,200	162,200	184,400
03/01/2040			19,400	19,400	
09/01/2040	150,000	4.000%	19,400	169,400	188,800
03/01/2041			16,400	16,400	
09/01/2041	155,000	4.000%	16,400	171,400	187,800
03/01/2042			13,300	13,300	
09/01/2042	155,000	4.000%	13,300	168,300	181,600
03/01/2043			10,200	10,200	
09/01/2043	160,000	4.000%	10,200	170,200	180,400
03/01/2044			7,000	7,000	
09/01/2044	170,000	4.000%	7,000	177,000	184,000
03/01/2045			3,600	3,600	
09/01/2045	180,000	4.000%	3,600	183,600	187,200
	2,940,000		1,882,200	4,822,200	4,822,200

BOND DEBT SERVICE

Galveston County MUD No. 45 Proposed Sereis 2019B Road Bond

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
09/01/2019			23,666.67	23,666.67	23,666.67
03/01/2020			35,500.00	35,500.00	
09/01/2020	40,000	4.000%	35,500.00	75,500.00	111,000.00
03/01/2021			34,700.00	34,700.00	
09/01/2021	40,000	4.000%	34,700.00	74,700.00	109,400.00
03/01/2022			33,900.00	33,900.00	
09/01/2022	45,000	4.000%	33,900.00	78,900.00	112,800.00
03/01/2023			33,000.00	33,000.00	
09/01/2023	45,000	4.000%	33,000.00	78,000.00	111,000.00
03/01/2024			32,100.00	32,100.00	
09/01/2024	45,000	4.000%	32,100.00	77,100.00	109,200.00
03/01/2025			31,200.00	31,200.00	
09/01/2025	50,000	4.000%	31,200.00	81,200.00	112,400.00
03/01/2026			30,200.00	30,200.00	
09/01/2026	50,000	4.000%	30,200.00	80,200.00	110,400.00
03/01/2027			29,200.00	29,200.00	
09/01/2027	55,000	4.000%	29,200.00	84,200.00	113,400.00
03/01/2028			28,100.00	28,100.00	
09/01/2028	55,000	4.000%	28,100.00	83,100.00	111,200.00
03/01/2029			27,000.00	27,000.00	
09/01/2029	55,000	4.000%	27,000.00	82,000.00	109,000.00
03/01/2030			25,900.00	25,900.00	
09/01/2030	60,000	4.000%	25,900.00	85,900.00	111,800.00
03/01/2031			24,700.00	24,700.00	
09/01/2031	60,000	4.000%	24,700.00	84,700.00	109,400.00
03/01/2032			23,500.00	23,500.00	
09/01/2032	65,000	4.000%	23,500.00	88,500.00	112,000.00
03/01/2033			22,200.00	22,200.00	
09/01/2033	65,000	4.000%	22,200.00	87,200.00	109,400.00
03/01/2034			20,900.00	20,900.00	
09/01/2034	70,000	4.000%	20,900.00	90,900.00	111,800.00
03/01/2035			19,500.00	19,500.00	
09/01/2035	70,000	4.000%	19,500.00	89,500.00	109,000.00
03/01/2036			18,100.00	18,100.00	
09/01/2036	75,000	4.000%	18,100.00	93,100.00	111,200.00
03/01/2037			16,600.00	16,600.00	
09/01/2037	80,000	4.000%	16,600.00	96,600.00	113,200.00
03/01/2038			15,000.00	15,000.00	
09/01/2038	80,000	4.000%	15,000.00	95,000.00	110,000.00
03/01/2039			13,400.00	13,400.00	
09/01/2039	85,000	4.000%	13,400.00	98,400.00	111,800.00
03/01/2040			11,700.00	11,700.00	
09/01/2040	90,000	4.000%	11,700.00	101,700.00	113,400.00
03/01/2041			9,900.00	9,900.00	
09/01/2041	90,000	4.000%	9,900.00	99,900.00	109,800.00
03/01/2042			8,100.00	8,100.00	
09/01/2042	95,000	4.000%	8,100.00	103,100.00	111,200.00
03/01/2043			6,200.00	6,200.00	
09/01/2043	100,000	4.000%	6,200.00	106,200.00	112,400.00
03/01/2044			4,200.00	4,200.00	
09/01/2044	105,000	4.000%	4,200.00	109,200.00	113,400.00
03/01/2045			2,100.00	2,100.00	
09/01/2045	105,000	4.000%	2,100.00	107,100.00	109,200.00
	1,775,000		1,137,466.67	2,912,466.67	2,912,466.67

Galveston County Municipal Utility District No. 45

WS&D Debt Service Tax Rate Analysis - No Growth Scenario

Proposed \$6,275,000 Series 2019 Bond Issue at 4.000% Interest Rate

Proposed \$2,940,000 Series 2019A Park Bond Issue at 4.000% Interest Rate

Year Ending 12/31	Beginning Fund Balance as of 11/06/2018	Fund Interest Earnings @ 1.000%	Prior Year Taxable AV	AV Growth Percentage	Tax Rate / \$100 of Assessed Value	Tax Collections @ 98.00%	Total Funds Available	Current Debt Service	Proposed Debt Service Series 2019	Proposed Debt Service Park Series 2019A	Total Debt Service	Ending Balance	Debt Service Coverage %
2018	935,245	1,429	216,954,718			-	936,674		-	-		936,674	59.010%
2019	936,674	9,367	277,493,451	27.904%	0.610000	1,658,856	2,604,897	1,483,619	64,500	39,200	1,587,319	1,017,578	48.935%
2020	1,017,578	10,176	326,884,952	17.799%	0.650000	2,082,257	3,110,011	1,483,869	413,000	182,600	2,079,469	1,030,542	49.540%
2021	1,030,542	10,305	326,884,952		0.650000	2,082,257	3,123,105	1,483,419	411,800	185,000	2,080,219	1,042,886	50.143%
2022	1,042,886	10,429	326,884,952		0.650000	2,082,257	3,135,572	1,482,219	415,400	182,200	2,079,819	1,055,753	50.798%
2023	1,055,753	10,558	326,884,952		0.650000	2,082,257	3,148,568	1,485,319	408,600	184,400	2,078,319	1,070,249	51.437%
2024	1,070,249	10,702	326,884,952		0.650000	2,082,257	3,163,209	1,482,519	411,800	186,400	2,080,719	1,082,490	51.997%
2025	1,082,490	10,825	326,884,952		0.650000	2,082,257	3,175,572	1,484,019	409,600	188,200	2,081,819	1,093,754	52.629%
2026	1,093,754	10,938	326,884,952		0.650000	2,082,257	3,186,948	1,486,219	407,200	184,800	2,078,219	1,108,729	53.356%
2027	1,108,729	11,087	326,884,952		0.650000	2,082,257	3,202,074	1,486,994	409,600	181,400	2,077,994	1,124,080	54.023%
2028	1,124,080	11,241	326,884,952		0.650000	2,082,257	3,217,578	1,486,125	411,600	183,000	2,080,725	1,136,853	54.613%
2029	1,136,853	11,369	326,884,952		0.650000	2,082,257	3,230,479	1,489,038	408,200	184,400	2,081,638	1,148,841	55.219%
2030	1,148,841	11,488	326,884,952		0.650000	2,082,257	3,242,587	1,490,325	404,600	185,600	2,080,525	1,162,062	55.944%
2031	1,162,062	11,621	326,884,952		0.650000	2,082,257	3,255,940	1,494,788	400,800	181,600	2,077,188	1,178,752	56.743%
2032	1,178,752	11,788	326,884,952		0.650000	2,082,257	3,272,797	1,492,963	401,800	182,600	2,077,363	1,195,434	57.459%
2033	1,195,434	11,954	326,884,952		0.650000	2,082,257	3,289,646	1,494,706	402,400	183,400	2,080,506	1,209,139	58.224%
2034	1,209,139	12,091	326,884,952		0.650000	2,082,257	3,303,488	1,495,113	402,600	179,000	2,076,713	1,226,775	58.954%
2035	1,226,775	12,268	326,884,952		0.650000	2,082,257	3,321,300	1,498,888	397,400	184,600	2,080,888	1,240,413	59.695%
2036	1,240,413	12,404	326,884,952		0.650000	2,082,257	3,335,074	1,501,113	397,000	179,800	2,077,913	1,257,162	60.498%
2037	1,257,162	12,572	326,884,952		0.650000	2,082,257	3,351,990	1,501,813	391,200	185,000	2,078,013	1,273,978	61.245%
2038	1,273,978	12,740	326,884,952		0.650000	2,082,257	3,368,975	1,500,119	395,200	184,800	2,080,119	1,288,856	61.969%
2039	1,288,856	12,889	326,884,952		0.650000	2,082,257	3,384,002	1,501,850	393,600	184,400	2,079,850	1,304,152	62.644%
2040	1,304,152	13,042	326,884,952		0.650000	2,082,257	3,399,450	1,501,431	391,600	188,800	2,081,831	1,317,619	63.309%
2041	1,317,619	13,176	326,884,952		0.650000	2,082,257	3,413,053	1,504,238	389,200	187,800	2,081,238	1,331,815	64.089%
2042	1,331,815	13,318	326,884,952		0.650000	2,082,257	3,427,390	1,505,069	391,400	181,600	2,078,069	1,349,322	64.974%
2043	1,349,322	13,493	326,884,952		0.650000	2,082,257	3,445,072	1,508,319	388,000	180,400	2,076,719	1,368,353	65.864%
2044	1,368,353	13,684	326,884,952		0.650000	2,082,257	3,464,294	1,504,356	389,200	184,000	2,077,556	1,386,738	66.658%
2045	1,386,738	13,867	326,884,952		0.650000	2,082,257	3,482,862	1,508,388	384,800	187,200	2,080,388	1,402,475	0.000%
Totals		320,819				55,797,542		40,336,831	10,492,100	4,822,200	55,651,131		
				Average Tax Rate:	0.648519								

Galveston County Municipal Utility District No. 45

Road Debt Service Tax Rate Analysis - No Growth Scenario

Proposed \$1,725,000 Series 2019B Bond Issue at 4.000% Interest Rate

Year Ending 12/31	Beginning Fund Balance as of 11/06/2018	Fund Interest Earnings @ 1.000%	Prior Year Taxable AV	AV Growth Percentage	Tax Rate / \$100 of Assessed Value	Tax Collections @ 98.00%	Total Funds Available	Current Debt Service	Proposed Debt Service Series 2019B	Total Debt Service	Ending Balance	Debt Service Coverage %
2018	179,986	275	216,954,718			-	180,261		-		180,261	97.128%
2019	180,261	1,803	277,493,451	27.904%	0.100000	271,944	454,007	161,925	23,667	185,592	268,415	96.997%
2020	268,415	2,684	326,884,952	17.799%	0.090000	288,313	559,412	165,725	111,000	276,725	282,687	103.236%
2021	282,687	2,827	326,884,952		0.090000	288,313	573,826	164,425	109,400	273,825	300,001	106.790%
2022	300,001	3,000	326,884,952		0.090000	288,313	591,314	168,125	112,800	280,925	310,389	111.761%
2023	310,389	3,104	326,884,952		0.090000	288,313	601,805	166,725	111,000	277,725	324,080	116.231%
2024	324,080	3,241	326,884,952		0.090000	288,313	615,633	169,625	109,200	278,825	336,808	118.272%
2025	336,808	3,368	326,884,952		0.090000	288,313	628,489	172,375	112,400	284,775	343,714	122.591%
2026	343,714	3,437	326,884,952		0.090000	288,313	635,464	169,975	110,400	280,375	355,089	124.168%
2027	355,089	3,551	326,884,952		0.090000	288,313	646,952	172,575	113,400	285,975	360,977	126.117%
2028	360,977	3,610	326,884,952		0.090000	288,313	652,899	175,025	111,200	286,225	366,674	130.338%
2029	366,674	3,667	326,884,952		0.085000	272,295	642,636	172,325	109,000	281,325	361,311	126.145%
2030	361,311	3,613	326,884,952		0.085000	272,295	637,220	174,625	111,800	286,425	350,795	122.631%
2031	350,795	3,508	326,884,952		0.085000	272,295	626,598	176,656	109,400	286,056	340,542	117.264%
2032	340,542	3,405	326,884,952		0.085000	272,295	616,242	178,406	112,000	290,406	325,836	112.644%
2033	325,836	3,258	326,884,952		0.085000	272,295	601,389	179,863	109,400	289,263	312,127	106.596%
2034	312,127	3,121	326,884,952		0.085000	272,295	587,543	181,013	111,800	292,813	294,731	101.286%
2035	294,731	2,947	326,884,952		0.085000	272,295	569,973	181,988	109,000	290,988	278,986	94.946%
2036	278,986	2,790	326,884,952		0.085000	272,295	554,071	182,638	111,200	293,838	260,233	87.872%
2037	260,233	2,602	326,884,952		0.085000	272,295	535,131	182,950	113,200	296,150	238,981	81.543%
2038	238,981	2,390	326,884,952		0.085000	272,295	513,666	183,075	110,000	293,075	220,591	74.824%
2039	220,591	2,206	326,884,952		0.085000	272,295	495,092	183,013	111,800	294,813	200,279	67.665%
2040	200,279	2,003	326,884,952		0.085000	272,295	474,577	182,588	113,400	295,988	178,590	61.209%
2041	178,590	1,786	326,884,952		0.085000	272,295	452,671	181,969	109,800	291,769	160,902	54.111%
2042	160,902	1,609	326,884,952		0.085000	272,295	434,806	186,156	111,200	297,356	137,450	46.224%
2043	137,450	1,375	326,884,952		0.085000	272,295	411,120	184,956	112,400	297,356	113,763	38.309%
2044	113,763	1,138	326,884,952		0.085000	272,295	387,196	183,563	113,400	296,963	90,234	30.466%
2045	90,234	902	326,884,952		0.085000	272,295	363,431	186,975	109,200	296,175	67,256	0.000%
Totals		73,219				7,495,774		4,769,256	2,912,467	7,681,723		
				Average Tax Rate:	0.087222							