

**Analysis of alternative funding plans for proposed
City of Oak Ridge water/wastewater bond issue, August 2011**

Level principal amounts - 20-year payout

		Principal	Coupon %	Annual interest cost for this bond	Current-year total interest	P&I
2012					245,438	245,438
2013	1	500000	0.75	3,750	327,250	827,250
2014	2	500000	1.05	5,250	323,500	823,500
2015	3	500000	1.4	7,000	318,250	818,250
2016	4	500000	1.75	8,750	311,250	811,250
2017	5	500000	2.15	10,750	302,500	802,500
2018	6	500000	2.6	13,000	291,750	791,750
2019	7	500000	3	15,000	278,750	778,750
2020	8	500000	3.25	16,250	263,750	763,750
2021	9	500000	3.4	17,000	247,500	747,500
2022	10	500000	3.6	18,000	230,500	730,500
2023	11	500000	3.75	18,750	212,500	712,500
2024	12	500000	3.9	19,500	193,750	693,750
2025	13	500000	4.05	20,250	174,250	674,250
2026	14	500000	4.1	20,500	154,000	654,000
2027	15	500000	4.2	21,000	133,500	633,500
2028	16	500000	4.3	21,500	112,500	612,500
2029	17	500000	4.4	22,000	91,000	591,000
2030	18	500000	4.5	22,500	69,000	569,000
2031	19	500000	4.6	23,000	46,500	546,500
2032	20	500000	4.7	23,500	23,500	523,500
Total		10,000,000			4,350,938	14,350,938

Semi-level annual payments case - 20-year payout

		Principal	Coupon %	Annual interest cost for this bond	Current-year total interest	P&I
2012					254,734	254,734
2013	1	380000	0.75	2,850	339,646	719,646
2014	2	400000	1.05	4,200	336,796	736,796
2015	3	430000	1.4	6,020	332,596	762,596
2016	4	450000	1.75	7,875	326,576	776,576
2017	5	479000	2.15	10,299	318,701	797,701
2018	6	490000	2.6	12,740	308,402	798,402
2019	7	500000	3	15,000	295,662	795,662
2020	8	500000	3.25	16,250	280,662	780,662
2021	9	500000	3.4	17,000	264,412	764,412
2022	10	500000	3.6	18,000	247,412	747,412
2023	11	500000	3.75	18,750	229,412	729,412
2024	12	500000	3.9	19,500	210,662	710,662

2025	13	500000	4.05	20,250	191,162	691,162
2026	14	500000	4.1	20,500	170,912	670,912
2027	15	510000	4.2	21,420	150,412	660,412
2028	16	522000	4.3	22,446	128,992	650,992
2029	17	549000	4.4	24,156	106,546	655,546
2030	18	570000	4.5	25,650	82,390	652,390
2031	19	600000	4.6	27,600	56,740	656,740
2032	20	620000	4.7	29,140	29,140	649,140
Lifetime total		10,000,000			4,661,965	14,661,965

Staff's proposal - 20-year payout

		Principal	Coupon %	Annual interest cost for this bond	Current-year total interest	P&I
2012					317,151	317,151
2013	1	100000	0.75	750	422,868	522,868
2014	2	100000	1.05	1,050	422,118	522,118
2015	3	100000	1.4	1,400	421,068	521,068
2016	4	100000	1.75	1,750	419,668	519,668
2017	5	100000	2.15	2,150	417,918	517,918
2018	6	100000	2.6	2,600	415,768	515,768
2019	7	100000	3	3,000	413,168	513,168
2020	8	100000	3.25	3,250	410,168	510,168
2021	9	100000	3.4	3,400	406,918	506,918
2022	10	100000	3.6	3,600	403,518	503,518
2023	11	70000	3.75	2,625	399,918	469,918
2024	12	390000	3.9	15,210	397,293	787,293
2025	13	415000	4.05	16,808	382,083	797,083
2026	14	495000	4.1	20,295	365,275	860,275
2027	15	625000	4.2	26,250	344,980	969,980
2028	16	895000	4.3	38,485	318,730	1,213,730
2029	17	970000	4.4	42,680	280,245	1,250,245
2030	18	995000	4.5	44,775	237,565	1,232,565
2031	19	2025000	4.6	93,150	192,790	2,217,790
2032	20	2120000	4.7	99,640	99,640	2,219,640
Total		10,000,000			7,488,844	17,488,844