$\label{thm:continuous} Who's \ time-value \ of \ money \ is \ it \ calculating? \ For \ a \ bond \ investor \ or \ the \ average \ taxpayer?$

\$ 28,620,367.72

		Dec 13, 2017 11:14 am Prepared by DBC Finance (Finance 8.000 PIEDMONT:PIEDUSD-REF2017B, REF2017B) Pa							ge 2 Bond Investor Point of View	Taxpayer Point of View	
	SAVINGS Piedmont City Unified School District 2017B GO Refunding Bonds (CIBs refund of Series E Bonds)							Series E bond investors only lost \$ 12.05 million in today's dollars using a 3.0504063 % rate of return from their muni bond accounts. In other words, if they also bought the refinanced CIBs, they would have to put up an additional	Present value calculations for taxpayers is purely hypothetical since future savings are not bankable today. These savings are relative to the excessive future gouging of keeping the 2013 CAB.		
Predatory Exponential Compound Interest by using a series of Zero Coupon Bonds			Date	Present Prior Refunding Refunding Refunding to 12/2 Date Debt Service Debt Service Receipts Net Cash Flow Savings @ 3.050						\$12.05 million into their muni bond account at the time of refinance to make up the \$26.16 million saved by Piedmont taxpayers. New Investment	Investing savings as they occur might be doable but the amounts are smaller than the \$5000 bond investment limits and initially the savings are negative. This analysis doesn't make sense.
			08/01/2018 08/01/2019 08/01/2020 08/01/2021		533,522.92 873,037.50 873,037.50 873,037.50	533,522.92 873,037.50 873,037.50 873,037.50			<u> </u>	\$ 12,050,000 \$ 12,344,059 \$ 12,720,603 \$ 13,108,633 \$ 13,508,500	The present value calculation in column N is wildly inaccurate for taxpayers. This creative accounting is misleading.
	Repayn Multipli		08/01/2022 08/01/2023 08/01/2024 08/01/2025		873,037.50 873,037.50 873,037.50 873,037.50	873,037.50 873,037.50 873,037.50	873,037.50 873,037.50	-873,037.50 -873,037.50	-720,130.39 -698,656.02	\$ 13,320,564 \$ 14,345,198 \$ 14,782,784 \$ 15,233,719	Average Savings per Parcel (assumes 3000 parce \$ (291.01) \$ (291.01)
\$ 490,742 *power(1 + 5.28 %/2, 28 \$ 212,731 *power(1 + 5.28 %/2, 32 \$ 162,248 *power(1 + 5.74 %/2, 32 \$ 176,626)= \$ 481	2.1 2.3 2.5	08/01/2026 08/01/2027 08/01/2028 08/01/2029 08/01/2030	1,015,000.00 480,000.00 400,000.00 470,000.00	873,037.50 2,373,037.50 1,813,037.50 1,773,037.50 1,733,037.50		873,037.50 2,373,037.50 1,813,037.50 1,773,037.50 1,733,037.50	-873,037.50 -1,358,037.50 -1,333,037.50 -1,373,037.50 -1,263,037.50	-677,822.01 -1,020,167.20 -971,282.60 -970,249.13 -866.017.43	\$ 15,698,410 \$ 16,177,275 \$ 16,670,748 \$ 17,179,273 \$ 17,703,311	\$ (291.01) \$ (452.68) \$ (444.35) \$ (457.68) \$ (421.01)
\$ 155,932 \$ 135,161 \$ 115,300 \$ 99,022 ***	***		08/01/2030 08/01/2031 08/01/2032 08/01/2033 08/01/2034	470,000.00 445,000.00 415,000.00 380,000.00 350,000.00	1,693,037.50 1,693,037.50 1,653,037.50 1,623,037.50 1,593,037.50		1,733,037.50 1,693,037.50 1,653,037.50 1,623,037.50 1,593,037.50	-1,248,037.50 -1,248,037.50 -1,243,037.50 -1,243,037.50	-800,017.43 -830,056.40 -798,682.67 -777,840.12 -754,506.47	\$ 18,799,830 \$ 19,373,301 \$ 19,964,265	\$ (416.01) \$ (412.68) \$ (414.35) \$ (414.35)
\$ 643,366 \$ 612,077 \$ 1,443,926 \$ 1,416,731			08/01/2035 08/01/2036 08/01/2037 08/01/2038	5,650,000.00 5,935,000.00 6,230,000.00 6,545,000.00	2,573,037.50 2,702,737.50 2,836,737.50 2,979,737.50		2,573,037.50 2,702,737.50 2,836,737.50 2,979,737.50	3,076,962.50 3,232,262.50 3,393,262.50 3,565,262.50	1,802,891.26 1,837,795.74 1,872,187.31 1,908,811.93	\$ 20,573,256 \$ 21,200,824 \$ 21,847,536 \$ 22,513,974	\$ 1,025.65 \$ 1,077.42 \$ 1,131.09 \$ 1,188.42
\$ 1,388,084 \$ 1,359,955 \$ 1,334,791 *power(1 + 6.31 %/2, 56 \$ 1,313,609 *power(1 + 6.32 %/2, 58 \$ 938,377 *power(1 + 6.33 %/2, 66) = \$ 7,982	5.7 6.1 6.5	08/01/2039 08/01/2040 08/01/2041 08/01/2042 08/01/2043	6,870,000.00 7,215,000.00 7,575,000.00 7,955,000.00 6,065,000.00	3,131,287.50 3,285,937.50 3,449,531.26		3,131,287.50 3,285,937.50 3,449,531.26	3,738,712.50 3,929,062.50 4,125,468.74 7,955,000.00 6,065,000.00	1,942,366.76 1,980,772.70 2,018,165.39 3,776,242.10 2,793,204.39	\$ 23,200,742 \$ 23,908,459 \$ 24,637,764 \$ 25,389,316 \$ 26,163,793	\$ 1,246.24 \$ 1,309.69 \$ 1,375.16 \$ 2,651.67 \$ 2,021.67
\$ 11,998,678	Old Repayment	5.3	00/01/2043	63,995,000.00	42,731,129.18	4,898,710.42	37,832,418.76	26,162,581.24	10,847,027.15		
Received by the District	Multiplier New Repayment Multiplier	3.2		Initial taxpayer liability			Refinanced taxpayer liability				