

Palmyra Area School District

Debt Review

December 1, 2016

Ken Phillips
Managing Director
2101 Oregon Pike
Lancaster, PA 17601
Phone: (717) 519-6001
Fax: (717) 519-6120
ken.phillips@rbccm.com

Lauren Eby
Vice President
2101 Oregon Pike
Lancaster, PA 17601
Phone: (717) 519-5925
Fax: (717) 519-6120
lauren.eby@rbccm.com



RBC Capital Markets

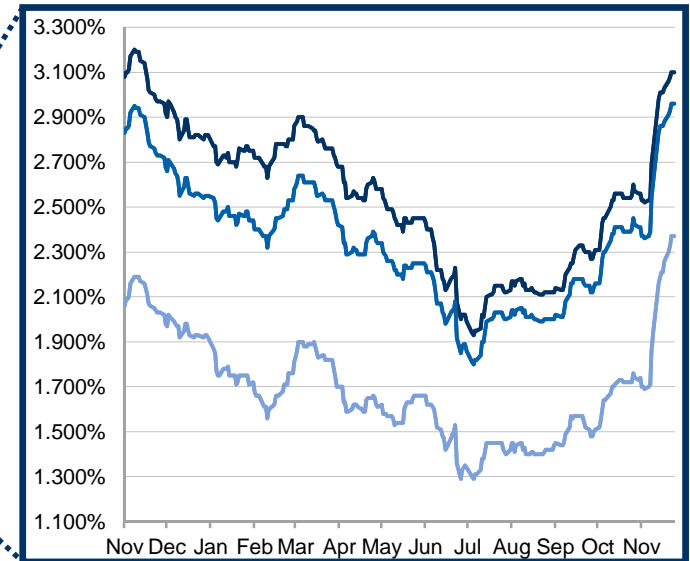
Current Municipal Market Conditions: 10-year “AAA” MMD Borrowing Rate

After closing at 1.74% on November 1, the 10-year “AAA” MMD increased by .63% from November 1 – November 25, closing at the current rate of 2.37%

“AAA” MMD January 1, 2007 to Present



Shift in “AAA” MMD Since November 2015



January 1, 2007 to Present

	10 Year	20 Year	30 Year
Maximum	4.860%	5.740%	5.940%
Minimum	1.290%	1.800%	1.930%
Current	2.370%	2.960%	3.100%

Shift in 30-year “AAA” MMD

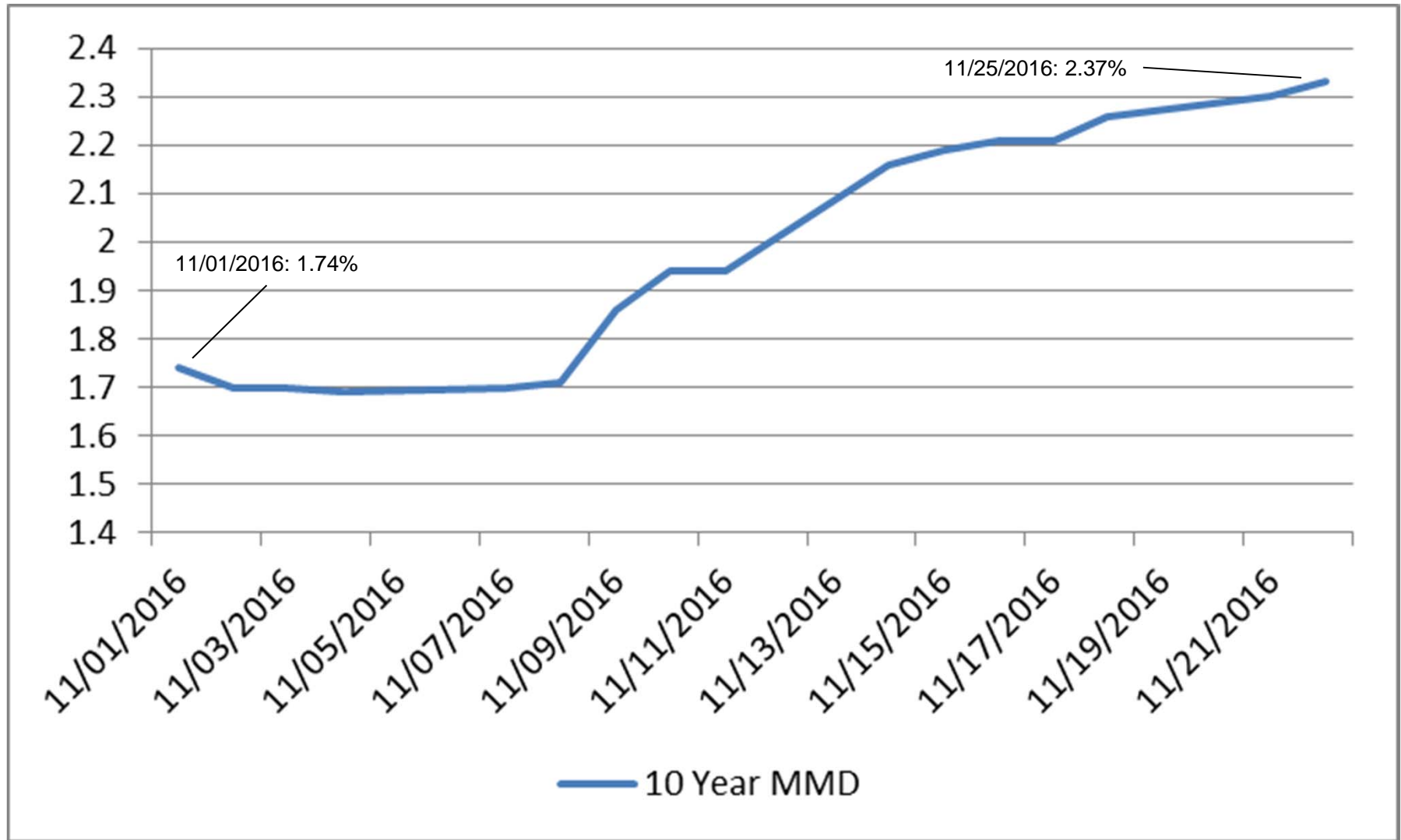
2009	2010	2011	2012	2013	2014	2015
-0.900%	0.520%	-1.130%	-0.740%	1.330%	-1.340%	-0.353%

November 1, 2015 to Present

	10 Year	20 Year	30 Year
Maximum	2.370%	2.960%	3.200%
Minimum	1.290%	1.800%	1.930%
Average	1.716%	2.383%	2.588%

Source: TM3, Thomson Reuters
10, 20, and 30 year “AAA” MMD shown to represent different average lives of municipal transactions
Rates as of November 25, 2016

10 Year MMD Borrowing Rate - November 1, 2016 to November 25, 2016



Bond Buyer 20 General Obligation Bond Index Borrowing Rate

55 Year Historical Perspective

Bond Buyer 20 GO Index since January 1961



% of Time in Each Range Since 1961

Yield Range		
Less than 3.50%	10.18%	
3.50% - 4.00%	8.19%	
4.01% - 4.50%	11.00%	
4.51% - 5.00%	10.35%	
5.01% - 5.50%	14.43%	
5.51% - 6.00%	10.04%	
6.01% - 6.50%	7.78%	
6.51% - 7.00%	7.10%	
7.01% - 7.50%	6.41%	
7.51% - 8.00%	3.77%	
Greater than 8.00%	10.73%	
Total	100.00%	

Source: Bloomberg as of November 22, 2016
 Weekly yields and indexes released by the Bond Buyer. Updated every Thursday at approximately 6:00pm EST. 20 Bond General Obligation
 Yield with 20 year maturity, rated AA2 by Moody's Arithmetic Average of 20 bonds' yield to maturity.

Today's 3.80% level is lower than 84.64% of historical rates since January 1961

Gross Debt Outstanding – does not include energy project

Palmyra Area School District Gross Debt Service As of July 1, 2016

As of Fiscal Year Ending June 30	(1) 2010 QSCB Bonds	(2) 2011 G.O. Bonds	(3) 2013 G.O. Bonds	(4) 2014 G.O. Bonds	(5) 2014A G.O. Bonds	(6) 2015A G.O. Bonds	(7) 2015B G.O. Bonds	Total
2017	295,500	2,026,513	977,038	355,313	330,495	1,253,100	288,505	5,526,463
2018	235,500	1,364,913	1,713,188	351,563	329,633	1,249,500	352,125	5,596,420
2019	290,500		3,196,538	357,813	708,483	875,500	259,250	5,688,083
2020	420,500		553,988	2,910,788	1,578,583		228,445	5,692,303
2021	425,500		13,288	3,443,538	1,591,083		228,330	5,701,738
2022	435,500		13,181	3,428,625	1,597,783		228,215	5,703,304
2023	425,500		388,075		1,600,158		3,123,100	5,536,833
2024	405,500				1,609,518		3,486,400	5,501,418
2025	405,500				1,484,738		3,549,810	5,440,048
2026	3,525,500							3,525,500
2027	3,560,500							3,560,500
2028	3,582,750							3,582,750
2029								0
2030								0
2031								0
2032								0
2033								0
Total	14,008,250	3,391,425	6,855,294	10,847,638	10,830,470	3,378,100	11,744,180	61,055,356

(1) Series of 2010 QSCB, net of Federal interest subsidy (0.17% effective rate), per schedule from Citi.

(2) Series of 2011, callable 11/1/16, average coupon 3.28%

(3) Series of 2013, callable 5/1/19, average coupon 2.71%.

(4) Series of 2014, call date required 6/1/19, average coupon 2.36%.

(5) Series A of 2014, call date required 6/1/19, average coupon 2.36%.

(6) Series A of 2015, non-callable, average coupon 2.15%.

(7) Series B of 2015, prepayable anytime, Integrity Bank Loan at 2.30% fixed rate.

Net Debt Outstanding – does not include energy project

Palmyra Area School District Net Debt Outstanding As of July 1, 2016

As of Fiscal Year Ending June 30	2010 QSCB Bonds	2011 G.O. Bonds	2013 G.O. Bonds	2014 G.O. Bonds	2014A G.O. Bonds	2015A G.O. Bonds	2015B G.O. Bonds	Total
2017	265,386	1,839,252	831,734	305,758	274,194	1,039,630	259,191	4,815,145
2018	211,500	1,238,787	1,458,406	302,531	273,478	1,036,643	316,347	4,837,693
2019	260,895	0	2,721,155	307,909	587,790	726,356	232,909	4,837,014
2020	377,647	0	471,600	2,504,827	1,309,665	0	205,234	4,868,973
2021	382,138	0	11,311	2,963,276	1,320,036	0	205,130	4,881,892
2022	391,119	0	11,221	2,950,443	1,325,595	0	205,027	4,883,405
2023	382,138	0	330,361	0	1,327,565	0	2,805,776	4,845,840
2024	364,176	0	0	0	1,335,331	0	3,132,163	4,831,669
2025	364,176	0	0	0	1,231,807	0	3,189,130	4,785,113
2026	3,166,221	0	0	0	0	0	0	3,166,221
2027	3,197,654	0	0	0	0	0	0	3,197,654
2028	3,217,636	0	0	0	0	0	0	3,217,636
2029	0	0	0	0	0	0	0	0
2030	0	0	0	0	0	0	0	0
2031	0	0	0	0	0	0	0	0
2032	0	0	0	0	0	0	0	0
2033	0	0	0	0	0	0	0	0
Total	12,580,686	3,078,039	5,835,787	9,334,745	8,985,462	2,802,629	10,550,907	53,168,255

Local Effort	89.81%	90.76%	85.13%	86.05%	82.96%	82.96%	89.84%
State Effort	10.19%	9.24%	14.87%	13.95%	17.04%	17.04%	10.16%
2016-17 MVAR	50.55%	50.55%	50.55%	50.55%	50.55%	50.55%	50.55%
Reimb %	20.16%	18.28%	29.42%	27.59%	33.70%	33.70%	20.10%

Future Capital Project Borrowing Studies

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