

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 29, 2012

PAGE 1  
000 A000000 09/30/2012  
000 C000000 0001258943  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
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PAGE 2  
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011 A000002 UBS INVESTMENT BANK  
011 B000002 8-022651

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011 C010002 STAMFORD  
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011 A000003 RBC CAPITAL MARKETS CORP.  
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011 A000004 MERRILL LYNCH & CO.  
011 B000004 8-7221  
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC  
011 B000005 8-462  
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC  
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011 C010006 RICHMOND  
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012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.  
012 B000001 85-01359  
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)  
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020 A000001 SANFORD C. BERNSTEIN & CO., INC.  
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SIGNATURE	MARK E. BRADLEY	
TITLE	TREASURER	