

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
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000 H000000 N
000 I000000 6.1
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001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-41256
PAGE 2
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011 A000002 UBS INVESTMENT BANK
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011 C010002 STAMFORD
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011 A000003 RBC CAPITAL MARKETS CORP.
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011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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011 C010005 PHILADELPHIA
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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.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
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SIGNATURE	MARK E. BRADLEY	
TITLE	TREASURER	