

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 22, 2006

PAGE 1
000 A000000 09/30/2006
000 C000000 1258943
000 D000000 N
000 E000000 NF
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000 G000000 N
000 H000000 N
000 I000000 6.1
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001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
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007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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008 D020001 MA
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010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
010 C020002 NJ
010 C030002 08543
010 C040002 9095
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
011 C020001 MA
011 C030001 00000
011 A000002 UBS WARBURG
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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011 C030002 06901
011 A000003 RBC CAPITAL MARKETS
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011 C010003 MINNEAPOLIS
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011 A000004 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
011 B000004 8-7221
011 C010004 NEW YORK
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011 C030004 10281
011 C040004 1201
011 A000005 JANNEY MONTGOMERY SCOTT LLC
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011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
011 C010006 RICHMOND
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011 C030006 23219
012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST COMPANY
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012 C010002 BROOKLYN
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
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013 A000001 ERNST & YOUNG LLP
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PAGE 3
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	