

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2013

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000 B000000 03/31/2013
000 C000000 0001258943
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001 B000000 811-21409
001 C000000 6177427825
002 A000000 60 STATE STREET
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002 C000000 MA
002 D010000 02109
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007 C010900 9
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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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
011 C010001 BOSTON
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011 C030001 02109
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011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT

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011 C030002 06901
011 A000003 RBC CAPITAL MARKETS CORP.
011 B000003 8-045411
011 C010003 MINNEAPOLIS
011 C020003 MN
011 C030003 55402
011 C040003 4422
011 A000004 MERRILL LYNCH & CO.
011 B000004 8-7221
011 C010004 NEW YORK
011 C020004 NY
011 C030004 10281
011 C040004 1201
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
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011 C020005 PA
011 C030005 19103
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011 A000006 WACHOVIA CAPITAL MARKETS, LLC
011 B000006 8-99999
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012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.
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012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
012 B000002 85-00000
012 C010002 BROOKLYN
012 C020002 NY
012 C030002 11219
012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)
012 B000003 85-05212
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013 A000001 ERNST & YOUNG, LLP
013 B010001 BOSTON
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015 A000003 HSBC BANK AUSTRALIA LIMITED
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015 C010003 SYDNEY
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015 C010016 TEL AVIV
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015 A000018 CFC STANBIC BANK LIMITED
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015 E040018 X
015 A000019 HSBC BANK MALAYSIA BERHAD
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015 D010026 POLAND
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015 A000027 ING BANK N.V., BUCHAREST BRANCH
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015 A000028 ZAO CITIBANK
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015 C010028 MOSCOW

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015 D010028 RUSSIA
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015 A000030 ING BANK NV, BRATISLAVA BRANCH
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015 D010030 SLOVAKIA
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015 A000031 STANDARD BANK OF SOUTH AFRICA LIMITED
015 B000031 S
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015 D010031 SOUTH AFRICA
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015 D010040 DENMARK

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015 B000041 S
015 C010041 CAIRO
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015 C010043 PANTIN
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015 A000049 HSBC BANK MIDDLE EAST CORPORATION
015 B000049 S
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015 A000050 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
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015 E040050 X
015 A000051 KBL EUROPEAN PRIVATE BANKERS SA
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015 D010051 LUXEMBOURG
015 E040051 X
PAGE 8
015 A000052 BNP PARIBAS SECURITIES SERVICES
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015 A000053 HSBC LIMITED, NEW ZEALAND BRANCH
015 B000053 S
015 C010053 AUCKLAND
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015 B000054 S
015 C010054 PANTIN
015 D010054 PORTUGAL
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015 A000055 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000055 S
015 C010055 ST. HELIER
015 D010055 QATAR
015 E040055 X
015 A000056 HSBC SAUDI ARABIA LIMITED
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015 C010056 RIYADH
015 D010056 SAUDI ARABIA
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015 A000057 CITIBANK KOREA INC
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015 C010057 SEOUL
015 D010057 SOUTH KOREA
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015 A000058 BANCO BILBAO VIZCAYA AREGENTARIA SA
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015 A000061 HSBC BANK PLC
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015 C010061 LONDON
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PAGE 9
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015 D010062 VENEZUELA
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015 E040063 X
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020 A000001 SANFORD C. BERNSTEIN & CO., LLC

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020 B000001 13-4132953
020 C000001 2430
020 A000002 UBS SECURITIES LLC
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.
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022 A000008 CLEARVIEW TRADING ADVISORS, INC.
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022 A000009 MESIROW FINANCIAL, INC.
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SIGNATURE MARK E. BRADLEY
TITLE TREASURER