

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 28, 2014

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000 A000000 09/30/2014  
000 C000000 0001258943  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
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000 I000000 6.1  
000 J000000 A  
001 A000000 PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST  
001 B000000 811-21409  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
002 B000000 BOSTON  
002 C000000 MA  
002 D010000 02109  
003 000000 N  
004 000000 N  
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006 000000 N  
007 A000000 N  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
008 D020001 MA  
008 D030001 02109  
010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 C010001 BOSTON  
010 C020001 MA  
010 C030001 02109  
010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
010 C030002 02110  
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-41256  
011 C010001 BOSTON  
011 C020001 MA  
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011 C030001 02109  
011 C040001 1820  
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  
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  
011 C020006 VA  
011 C030006 23219  
012 A000001 PIONEER INVEST. MGMT. SHAREHOLDER SERV. INC.  
012 B000001 85-01359  
012 C010001 BOSTON  
012 C020001 MA  
012 C030001 02109  
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  
012 C010003 NEW YORK  
012 C020003 NY  
012 C030003 10005  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02116  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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015 B000002 S  
015 C010002 BUENOS AIRES  
015 D010002 ARGENTINA  
015 E040002 X  
015 A000003 HSBC BANK AUSTRALIA LIMITED  
015 B000003 S  
015 C010003 SYDNEY  
015 D010003 AUSTRALIA  
015 E040003 X  
015 A000004 UNICREDIT BANK AUSTRIA AG  
015 B000004 S

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015 C010004 VIENNA  
015 D010004 AUSTRIA  
015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
015 B000005 S  
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015 E040005 X  
015 A000006 EUROCLEAR BANK SA NV  
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015 C010006 BRUSSELS  
015 D010006 BELGIUM  
015 E040006 X  
015 A000007 BNP PARIBAS SECURITIES SERVICES  
015 B000007 S  
015 C010007 PANTIN  
015 D010007 BELGIUM  
015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
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015 A000011 BANCO DE CHILE  
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015 D010015 DENMARK  
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015 A000016 CITIBANK, N.A., CAIRO BRANCH  
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015 C010016 CAIRO

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015 D010016 EGYPT  
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015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
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015 A000021 HSBC BANK PLC, ATHENS BRANCH  
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015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 C010022 KWUN TONG  
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015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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015 C010023 BUDAPEST  
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015 E040023 X  
015 A000024 CITIBANK, N.A., MUMBAI BRANCH  
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015 A000025 CITIBANK, N.A., JAKARTA BRANCH  
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015 A000026 CITIBANK, N.A., LONDON BRANCH  
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015 E040026 X  
015 A000027 BANK HAPOALIM BM  
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015 A000028 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH  
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015 D010028 ITALY

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015 A000029 SUMITOMO MITSU BANKING CORPORATION  
015 B000029 S  
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015 C010030 AMMAN  
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015 E040030 X  
015 A000031 CFC STANBIC BANK LIMITED  
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015 C010031 NAIROBI  
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015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
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015 D010034 MALAYSIA  
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015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000035 S  
015 C010035 MEXICO CITY  
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015 E040035 X  
015 A000036 CITIBANK MAGHREB  
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015 C010036 CASABLANCA  
015 D010036 MOROCCO  
015 E040036 X  
015 A000037 BNP PARIBAS SECURITIES SERVICES  
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015 A000038 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 E040038 X  
015 A000039 STANBIC IBTC BANK PLC  
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015 C010039 LAGOS  
015 D010039 NIGERIA  
015 E040039 X  
015 A000040 NORDEA BANK NORGE ASA  
015 B000040 S  
015 C010040 OSLO  
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015 A000041 CITIBANK DEL PERU S.A.  
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015 D010041 PERU  
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PAGE 7  
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH  
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015 A000043 BANK HANDLOWY W WARSZAWIE SA  
015 B000043 S  
015 C010043 WARSAW  
015 D010043 POLAND  
015 E040043 X  
015 A000044 BNP PARIBAS SECURITIES SERVICES  
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015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 A000047 ZAO CITIBANK  
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015 C010047 MOSCOW  
015 D010047 RUSSIA  
015 E040047 X  
015 A000048 HSBC SAUDI ARABIA LIMITED  
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015 C010048 RIYADH  
015 D010048 SAUDI ARABIA  
015 E040048 X  
015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH  
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015 A000050 ING BANK NV, BRATISLAVA BRANCH  
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015 C010050 BRATISLAVA  
015 D010050 SLOVAKIA  
015 E040050 X  
015 A000051 STANDARD BANK OF SOUTH AFRICA LIMITED  
015 B000051 S  
015 C010051 JOHANNESBURG  
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015 A000052 CITIBANK KOREA INC.  
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015 B000052 S  
015 C010052 SEOUL  
015 D010052 SOUTH KOREA  
015 E040052 X

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015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
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015 A000058 HSBC LIMITED, THAILAND BRANCH  
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015 A000060 HSBC BANK MIDDLE EAST LIMITED  
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015 A000063 HSBC BANK (VIETNAM) LTD  
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015 A000064 UNICREDIT BANK AUSTRIA AG  
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022 A000004 BLACKROCK ADVISORS LLC  
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071 B000000 73489

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086	D020000	0
086	E010000	0
086	E020000	0
086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	723762100
087	A030000	MAV
087	B010000	PREFERRED STOCK - SERIES A
087	B020000	723762209
087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723762308
088	A000000	N

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088 B000000 N  
088 C000000 N  
088 D000000 Y  
SIGNATURE MARK E. BRADLEY  
TITLE TREASURER