

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 30, 2014

PAGE 1  
000 B000000 03/31/2014  
000 C000000 0001258943  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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  
005 000000 N  
006 000000 N  
007 A000000 N  
007 B000000 0  
007 C010100 1  
007 C010200 2  
007 C010300 3  
007 C010400 4  
007 C010500 5  
007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
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.  
010 B000001 801-8255  
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  
PAGE 2  
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 ERNST & YOUNG, LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02116  
013 B040001 5072  
015 A000001 BROWN BROTHERS HARRIMAN & CO.  
PAGE 3  
015 B000001 C  
015 C010001 BOSTON  
015 C020001 MA  
015 C030001 02110  
015 E010001 X  
015 A000002 CITIBANK, N.A. BUENOS AIRES BRANCH  
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

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015 B000004 S  
015 C010004 VIENNA  
015 D010004 AUSTRIA  
015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
015 B000005 S  
015 C010005 DHAKA  
015 D010005 BANGLADESH  
015 E040005 X  
015 A000006 EUROCLEAR BANK SA NV  
015 B000006 S  
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  
015 B000008 S  
015 C010008 SAO PAULO  
015 D010008 BRAZIL  
015 E040008 X  
015 A000009 ING BANK, N.V., SOFIA BRANCH  
015 B000009 S  
015 C010009 SOFIA  
015 D010009 BULGARIA  
015 E040009 X  
015 A000010 RBC INVESTOR SERVICES TRUST  
015 B000010 S  
015 C010010 TORONTO  
015 D010010 CANADA  
015 E040010 X  
015 A000011 BANCO DE CHILE  
PAGE 4  
015 B000011 S  
015 C010011 SANTIAGO  
015 D010011 CHILE  
015 E040011 X  
015 A000012 STANDARD CHARTERED BANK (CHINA) LTD.  
015 B000012 S  
015 C010012 SHANGHAI  
015 D010012 CHINA  
015 E040012 X  
015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA  
015 B000013 S  
015 C010013 BOGOTA  
015 D010013 COLOMBIA  
015 E040013 X  
015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
015 B000014 S  
015 C010014 PRAGUE  
015 D010014 CZECH REPUBLIC  
015 E040014 X  
015 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
015 B000015 S  
015 C010015 COPENHAGEN  
015 D010015 DENMARK  
015 E040015 X  
015 A000016 CITIBANK, N.A., CAIRO BRANCH  
015 B000016 S

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015 C010016 CAIRO  
015 D010016 EGYPT  
015 E040016 X  
015 A000017 NORDEA BANK FINLAND PLC  
015 B000017 S  
015 C010017 HELSINKI  
015 D010017 FINLAND  
015 E040017 X  
015 A000018 BNP PARIBAS SECURITIES SERVICES  
015 B000018 S  
015 C010018 PARIS  
015 D010018 FRANCE  
015 E040018 X  
015 A000019 BNP PARIBAS SECURITIES SERVICES  
015 B000019 S  
015 C010019 FRANKFURT  
015 D010019 GERMANY  
015 E040019 X  
015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
015 B000020 S  
015 C010020 ACCRA  
015 D010020 GHANA  
015 E040020 X  
015 A000021 HSBC BANK PLC, ATHENS BRANCH  
015 B000021 S  
PAGE 5  
015 C010021 ATHENS  
015 D010021 GREECE  
015 E040021 X  
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
015 B000022 S  
015 C010022 KWUN TONG  
015 D010022 HONG KONG  
015 E040022 X  
015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
015 B000023 S  
015 C010023 BUDAPEST  
015 D010023 HUNGARY  
015 E040023 X  
015 A000024 CITIBANK, N.A., MUMBAI BRANCH  
015 B000024 S  
015 C010024 MUMBAI  
015 D010024 INDIA  
015 E040024 X  
015 A000025 CITIBANK, N.A., JAKARTA BRANCH  
015 B000025 S  
015 C010025 JAKARTA  
015 D010025 INDONESIA  
015 E040025 X  
015 A000026 CITIBANK, NA., LONDON BRANCH  
015 B000026 S  
015 C010026 LONDON  
015 D010026 IRELAND  
015 E040026 X  
015 A000027 BANK HAPOLIM BM  
015 B000027 S  
015 C010027 TEL AVIV  
015 D010027 ISRAEL  
015 E040027 X  
015 A000028 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH  
015 B000028 S  
015 C010028 MILAN

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015 D010028 ITALY  
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015 A000029 SUMITOMO MITSU BANKING CORPORATION  
015 B000029 S  
015 C010029 TOKYO  
015 D010029 JAPAN  
015 E040029 X  
015 A000030 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH  
015 B000030 S  
015 C010030 AMMAN  
015 D010030 JORDAN  
015 E040030 X  
015 A000031 CFC STANBIC BANK LIMITED  
015 B000031 S  
015 C010031 NAIROBI  
PAGE 6  
015 D010031 KENYA  
015 E040031 X  
015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
015 B000032 S  
015 C010032 SAFAT  
015 D010032 KUWAIT  
015 E040032 X  
015 A000033 KBL EUROPEAN PRIVATE BANKERS SA  
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015 D010033 LUXEMBOURG  
015 E040033 X  
015 A000034 HSBC BANK MALAYSIA BERHAD  
015 B000034 S  
015 C010034 KUALA LUMPUR  
015 D010034 MALAYSIA  
015 E040034 X  
015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)  
015 B000035 S  
015 C010035 MEXICO CITY  
015 D010035 MEXICO  
015 E040035 X  
015 A000036 CITIBANK MAGHREB  
015 B000036 S  
015 C010036 CASABLANCA  
015 D010036 MOROCCO  
015 E040036 X  
015 A000037 BNP PARIBAS SECURITIES SERVICES  
015 B000037 S  
015 C010037 PANTIN  
015 D010037 NETHERLANDS  
015 E040037 X  
015 A000038 HSBC LIMITED, NEW ZEALAND BRANCH  
015 B000038 S  
015 C010038 AUCKLAND  
015 D010038 NEW ZEALAND  
015 E040038 X  
015 A000039 STANBIC IBTC BANK PLC  
015 B000039 S  
015 C010039 LAGOS  
015 D010039 NIGERIA  
015 E040039 X  
015 A000040 NORDEA BANK NORGE ASA  
015 B000040 S  
015 C010040 OSLO  
015 D010040 NORWAY

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015 E040040 X  
015 A000041 CITIBANK DEL PERU S.A.  
015 B000041 S  
015 C010041 LIMA  
015 D010041 PERU  
PAGE 7  
015 E040041 X  
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH  
015 B000042 S  
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015 E040042 X  
015 A000043 BANK HANDLOWY W WARSZAWIE SA  
015 B000043 S  
015 C010043 WARSAW  
015 D010043 POLAND  
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015 A000044 BNP PARIBAS SECURITIES SERVICES  
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015 C010044 PARIS  
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015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 D010045 QATAR  
015 E040045 X  
015 A000046 ING BANK N.V., BUCHAREST BRANCH  
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015 C010046 BUCHAREST  
015 D010046 ROMANIA  
015 E040046 X  
015 A000047 ZAO CITIBANK  
015 B000047 S  
015 C010047 MOSCOW  
015 D010047 RUSSIA  
015 E040047 X  
015 A000048 HSBC SAUDI ARABIA LIMITED  
015 B000048 S  
015 C010048 RIYADH  
015 D010048 SAUDI ARABIA  
015 E040048 X  
015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH  
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015 D010049 SINGAPORE  
015 E040049 X  
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  
015 D010051 SOUTH AFRICA  
015 E040051 X  
PAGE 8  
015 A000052 DELETE  
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
015 B000053 S  
015 C010053 MADRID

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015 D010053 SPAIN  
015 E040053 X  
015 A000054 HSBC, SRI LANKA BRANCH  
015 B000054 S  
015 C010054 COLOMBO  
015 D010054 SRI LANKA  
015 E040054 X  
015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
015 B000055 S  
015 C010055 STOCKHOLM  
015 D010055 SWEDEN  
015 E040055 X  
015 A000056 CREDIT SUISSE AG  
015 B000056 S  
015 C010056 ZURICH  
015 D010056 SWITZERLAND  
015 E040056 X  
015 A000057 BANK OF TAIWAN  
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015 C010057 TAIPEI  
015 D010057 TAIWAN  
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015 A000058 HSBC LIMITED, THAILAND BRANCH  
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015 D010058 THAILAND  
015 E040058 X  
015 A000059 CITIBANK ANONIM SIRKETI  
015 B000059 S  
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015 D010059 TURKEY  
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015 A000060 HSBC BANK MIDDLE EAST LIMITED  
015 B000060 S  
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015 E040060 X  
015 A000061 HSBC BANK PLC  
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015 A000062 CITIBANK, N.A., CARACAS BRANCH  
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015 E040062 X  
PAGE 9  
015 A000063 HSBC BANK (VIETNAM) LTD  
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015 C010063 HO CHI MINH CITY  
015 D010063 VIETNAM  
015 E040063 X  
015 A000064 UNICREDIT BANK AUSTRIA AG  
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015 C010064 VIENNA  
015 D010064 CROATIA  
015 E040064 X  
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| 022 | A000007 | FIRST SOUTHWEST COMPANY          |
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PAGE 13

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070 J020000 Y  
070 K010000 Y  
070 K020000 N  
070 L010000 N  
070 L020000 N  
070 M010000 N  
070 M020000 N  
070 N010000 N  
070 N020000 N  
070 O010000 Y  
070 O020000 N  
070 P010000 Y  
070 P020000 N  
070 Q010000 N  
070 Q020000 N  
070 R010000 N  
070 R020000 N  
071 A000000 103373  
071 B000000 122660  
071 C000000 428673

PAGE 14

071 D000000 24  
072 A000000 12

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|             |        |
|-------------|--------|
| 072 B000000 | 28721  |
| 072 C000000 | 0      |
| 072 D000000 | 0      |
| 072 E000000 | 0      |
| 072 F000000 | 2622   |
| 072 G000000 | 214    |
| 072 H000000 | 0      |
| 072 I000000 | 20     |
| 072 J000000 | 6      |
| 072 K000000 | 0      |
| 072 L000000 | 4      |
| 072 M000000 | 13     |
| 072 N000000 | 0      |
| 072 O000000 | 0      |
| 072 P000000 | 0      |
| 072 Q000000 | 0      |
| 072 R000000 | 57     |
| 072 S000000 | 8      |
| 072 T000000 | 0      |
| 072 U000000 | 0      |
| 072 V000000 | 0      |
| 072 W000000 | 483    |
| 072 X000000 | 3427   |
| 072 Y000000 | 0      |
| 072 Z000000 | 25294  |
| 072AA000000 | 1349   |
| 072BB000000 | 0      |
| 072CC010000 | 0      |
| 072CC020000 | 34120  |
| 072DD010000 | 26755  |
| 072DD020000 | 0      |
| 072EE000000 | 0      |
| 073 A010000 | 1.1400 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
| 074 A000000 | 5373   |
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| 074 H000000 | 0      |
| 074 I000000 | 0      |
| 074 J000000 | 0      |
| 074 K000000 | 0      |
| 074 L000000 | 9129   |
| 074 M000000 | 164    |
| PAGE 15     |        |
| 074 N000000 | 434594 |
| 074 O000000 | 0      |
| 074 P000000 | 211    |
| 074 Q000000 | 0      |
| 074 R010000 | 0      |
| 074 R020000 | 0      |
| 074 R030000 | 0      |
| 074 R040000 | 175    |
| 074 S000000 | 150000 |
| 074 T000000 | 284208 |
| 074 U010000 | 23543  |
| 074 U020000 | 0      |

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|     |         |                              |
|-----|---------|------------------------------|
| 074 | V010000 | 12.07                        |
| 074 | V020000 | 0.00                         |
| 074 | W000000 | 0.0000                       |
| 074 | X000000 | 5526                         |
| 074 | Y000000 | 0                            |
| 075 | A000000 | 0                            |
| 075 | B000000 | 286965                       |
| 076 | 000000  | 14.60                        |
| 077 | A000000 | Y                            |
| 077 | B000000 | Y                            |
| 077 | C000000 | N                            |
| 077 | D000000 | N                            |
| 077 | E000000 | N                            |
| 077 | F000000 | N                            |
| 077 | G000000 | N                            |
| 077 | H000000 | N                            |
| 077 | I000000 | N                            |
| 077 | J000000 | N                            |
| 077 | K000000 | N                            |
| 077 | L000000 | N                            |
| 077 | M000000 | N                            |
| 077 | N000000 | N                            |
| 077 | O000000 | N                            |
| 077 | P000000 | N                            |
| 077 | Q010000 | N                            |
| 077 | Q020000 | N                            |
| 077 | Q030000 | N                            |
| 078 | 000000  | N                            |
| 080 | A000000 | ICI MUTUAL INSURANCE COMPANY |
| 080 | C000000 | 45000                        |
| 081 | A000000 | Y                            |
| 081 | B000000 | 55                           |
| 082 | A000000 | Y                            |
| 082 | B000000 | 0                            |
| 083 | A000000 | N                            |
| 083 | B000000 | 0                            |
| 084 | A000000 | N                            |
| 084 | B000000 | 0                            |
| 085 | A000000 | N                            |
|     | PAGE    | 16                           |
| 085 | B000000 | N                            |
| 086 | A010000 | 137                          |
| 086 | A020000 | 1804                         |
| 086 | B010000 | 0                            |
| 086 | B020000 | 0                            |
| 086 | C010000 | 0                            |
| 086 | C020000 | 0                            |
| 086 | D010000 | 0                            |
| 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                            |
| 088 | B000000 | N                            |

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088 C000000 N

088 D000000 Y

SIGNATURE MARK E. BRADLEY

TITLE TREASURER