

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 30, 2015

PAGE 1
000 A000000 09/30/2015
000 C000000 0001258943
000 D000000 N
000 E000000 NF
000 F000000 Y
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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
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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
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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
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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
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 DELOITTE & TOUCHE LLP
013 B010001 BOSTON
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013 B030001 02116
015 A000001 BROWN BROTHERS HARRIMAN & CO.
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PAGE 3
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015 E010001 X
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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
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015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH
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015 C010005 DHAKA
015 D010005 BANGLADESH
015 E040005 X
015 A000006 EUROCLEAR BANK SA NV
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015 C010006 BRUSSELS
015 D010006 BELGIUM
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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
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015 A000009 CITIBANK EUROPE PLC, BULGARIA BRANCH
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015 D010010 CANADA
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015 A000011 BANCO DE CHILE
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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015 C010015 COPENHAGEN
015 D010015 DENMARK
015 E040015 X
015 A000016 CITIBANK, N.A., CAIRO BRANCH
015 B000016 S
015 C010016 CAIRO

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015 D010016 EGYPT
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015 A000017 NORDEA BANK FINLAND PLC
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015 C010017 HELSINKI
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015 E040017 X
015 A000018 BNP PARIBAS SECURITIES SERVICES
015 B000018 S
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015 E040018 X
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015 C010019 FRANKFURT
015 D010019 GERMANY
015 E040019 X
015 A000020 STANDARD CHARTERED BANK GHANA LTD.
015 B000020 S
015 C010020 ACCRA
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015 E040020 X
015 A000021 HSBC BANK PLC, ATHENS BRANCH
015 B000021 S
015 C010021 ATHENS
PAGE 5
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
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015 D010024 INDIA
015 E040024 X
015 A000025 CITIBANK, N.A., JAKARTA BRANCH
015 B000025 S
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015 D010025 INDONESIA
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015 B000026 S
015 C010026 LONDON
015 D010026 IRELAND
015 E040026 X
015 A000027 BANK HAPOALIM 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
015 D010028 ITALY

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015 E040028 X
015 A000029 SUMITOMO MITSU BANKING CORPORATION
015 B000029 S
015 C010029 TOKYO
015 D010029 JAPAN
015 E040029 X
015 A000030 NORDEA BANK FINLAND PLC
015 B000030 S
015 C010030 HELSINKI
015 D010030 ESTONIA
015 E040030 X
015 A000031 CFC STANBIC BANK LIMITED
015 B000031 S
015 C010031 NAIROBI
015 D010031 KENYA
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015 E040032 X
015 A000033 KBL EUROPEAN PRIVATE BANKERS SA
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015 E040033 X
015 A000034 HSBC BANK MALAYSIA BERHAD
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015 C010034 KUALA LUMPUR
015 D010034 MALAYSIA
015 E040034 X
015 A000035 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
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015 E040035 X
015 A000036 CITIBANK MAGHREB
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015 C010036 CASABLANCA
015 D010036 MOROCCO
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015 D010037 NETHERLANDS
015 E040037 X
015 A000038 HSBC LIMITED, NEW ZEALAND BRANCH
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015 D010039 NIGERIA
015 E040039 X
015 A000040 NORDEA BANK NORGE ASA
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015 C010040 OSLO
015 D010040 NORWAY
015 E040040 X

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015 A000041 CITIBANK DEL PERU S.A.
015 B000041 S
015 C010041 LIMA
015 D010041 PERU
015 E040041 X
PAGE 7
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH
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015 C010042 TAGUIG CITY
015 D010042 PHILIPPINES
015 E040042 X
015 A000043 BANK HANDLOWY W WARSZAWIE SA
015 B000043 S
015 C010043 WARSAW
015 D010043 POLAND
015 E040043 X
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015 B000044 S
015 C010044 PANTIN
015 D010044 PORTUGAL
015 E040044 X
015 A000045 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000045 S
015 C010045 ST. HELIER
015 D010045 QATAR
015 E040045 X
015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA
015 B000046 S
015 C010046 BUCHAREST
015 D010046 ROMANIA
015 E040046 X
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015 C010047 MOSCOW
015 D010047 RUSSIA
015 E040047 X
015 A000048 DELETE
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015 D010049 SINGAPORE
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015 A000050 CITIBANK EUROPE PLC, POBOCKA ZAHRANICNEJ BANK
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015 C010050 BRATISLAVA
015 D010050 SLOVAKIA
015 E040050 X
015 A000051 STANDARD CHARTERED BANK JOHANNESBURG BRANCH
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015 C010051 JOHANNESBURG
015 D010051 SOUTH AFRICA
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015 A000052 CITIBANK KOREA INC.
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015 C010052 SEOUL
015 D010052 SOUTH KOREA
015 E040052 X
PAGE 8
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000053 S
015 C010053 MADRID
015 D010053 SPAIN

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015 E040053 X
015 A000054 HSBC, SRI LANKA BRANCH
015 B000054 S
015 C010054 COLOMBO
015 D010054 SRI LANKA
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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
015 E040057 X
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015 C010058 BANGKOK
015 D010058 THAILAND
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015 A000059 CITIBANK ANONIM SIRKETI
015 B000059 S
015 C010059 ISTANBUL
015 D010059 TURKEY
015 E040059 X
015 A000060 HSBC BANK MIDDLE EAST LIMITED
015 B000060 S
015 C010060 DUBAI
015 D010060 UNITED ARAB EMIRATES
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015 A000061 HSBC BANK PLC
015 B000061 S
015 C010061 LONDON
015 D010061 UNITED KINGDOM
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PAGE 9
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015 D010066 KENYA

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| 074 T000000 | 292514 |
| 074 U010000 | 23761 |
| 074 U020000 | 0 |
| 074 V010000 | 12.31 |
| 074 V020000 | 0.00 |
| 074 W000000 | 0.0000 |

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| | | |
|-----------|-----------------|----------------------------|
| 074 | X000000 | 4692 |
| 074 | Y000000 | 0 |
| 075 | A000000 | 0 |
| 075 | B000000 | 291856 |
| 076 | 000000 | 12.85 |
| 077 | A000000 | N |
| 078 | 000000 | N |
| 080 | C000000 | 0 |
| 081 | A000000 | N |
| 081 | B000000 | 0 |
| 082 | A000000 | N |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | N |
| 085 | B000000 | N |
| 086 | A010000 | 74 |
| 086 | A020000 | 945 |
| 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 |
| | PAGE | 16 |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | MARK E. BRADLEY | |
| TITLE | TREASURER | |