

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 29, 2016

PAGE 1
000 A000000 09/30/2016
000 C000000 0001258943
000 D000000 N
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000 I000000 6.1
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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
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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
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010 B000001 801-8255
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010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
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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
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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
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PAGE 3
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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
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015 E040004 X
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH
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015 C010005 DHAKA
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015 E040005 X
015 A000006 DELETE
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 D010008 BRAZIL
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015 A000009 CITIBANK EUROPE PLC, BULGARIA BRANCH
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015 A000011 BANCO DE CHILE
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED

PAGE 4

015 B000012 S
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
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015 A000014 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
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015 D010014 CZECH REPUBLIC
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015 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
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015 C010015 COPENHAGEN
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015 A000016 CITIBANK, N.A., CAIRO BRANCH
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015 A000017 NORDEA BANK FINLAND PLC
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015 C010017 HELSINKI
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015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000022 S
PAGE 5
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015 A000023 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
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015 A000029 SUMITOMO MITSU BANKING CORPORATION
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015 C010029 TOKYO

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015 D010029 JAPAN
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015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
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015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000053 S
015 C010053 MADRID
015 D010053 SPAIN
PAGE 8
015 E040053 X
015 A000054 HSBC, SRI LANKA BRANCH
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015 C010054 COLOMBO

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015 D010054 SRI LANKA
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015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
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015 C010055 STOCKHOLM
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015 C010056 ZURICH
015 D010056 SWITZERLAND
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015 A000057 BANK OF TAIWAN
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015 C010061 LONDON
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PAGE 9
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071 A000000 33758

071 B000000 18858

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| 082 | A000000 | Y |
| 082 | B000000 | 0 |
| 083 | A000000 | N |
| 083 | B000000 | 0 |
| 084 | A000000 | N |
| 084 | B000000 | 0 |
| 085 | A000000 | N |
| 085 | B000000 | N |
| 086 | A010000 | 50 |
| 086 | A020000 | 659 |
| 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 |
| | PAGE | 16 |
| 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 |
| 088 | C000000 | N |
| 088 | D000000 | Y |
| SIGNATURE | MARK E. BRADLEY | |
| TITLE | TREASURER | |