

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-B

May 27, 2016

PAGE 1  
000 B000000 03/31/2016  
000 C000000 0001258943  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
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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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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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008 C000001 801-8255  
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008 D020001 MA  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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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  
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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  
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015 E040004 X  
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH  
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015 C010005 DHAKA  
015 D010005 BANGLADESH  
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  
015 E040008 X  
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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 A000015 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
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015 C010015 COPENHAGEN  
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015 A000017 NORDEA BANK FINLAND PLC  
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015 C010017 HELSINKI  
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015 A000020 STANDARD CHARTERED BANK GHANA LTD.  
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015 C010020 ACCRA  
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015 A000021 HSBC BANK PLC, ATHENS BRANCH  
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015 E040021 X  
015 A000022 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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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 C010024 MUMBAI  
015 D010024 INDIA  
015 E040024 X  
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 C010028 MILAN  
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015 A000029 SUMITOMO MITSU BANKING CORPORATION  
015 B000029 S  
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 A000033 KBL EUROPEAN PRIVATE BANKERS SA  
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015 C010033 LUXEMBOURG  
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015 C010034 KUALA LUMPUR  
015 D010034 MALAYSIA  
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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 D010036 MOROCCO  
015 E040036 X  
015 A000037 BNP PARIBAS SECURITIES SERVICES  
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015 A000039 STANBIC IBTC BANK PLC  
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015 D010039 NIGERIA  
015 E040039 X  
015 A000040 NORDEA BANK NORGE ASA  
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015 A000041 CITIBANK DEL PERU S.A.  
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015 C010041 LIMA  
015 D010041 PERU  
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015 A000042 HSBC LIMITED, PHILIPPINE BRANCH  
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015 C010042 TAGUIG CITY

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015 D010042 PHILIPPINES  
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015 A000043 BANK HANDLOWY W WARSZAWIE SA  
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PAGE 7  
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015 A000044 BNP PARIBAS SECURITIES SERVICES  
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015 D010045 QATAR  
015 E040045 X  
015 A000046 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA  
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015 D010046 ROMANIA  
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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 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA  
015 B000053 S  
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PAGE 8  
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015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)  
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015 C010055 STOCKHOLM  
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015 A000056 CREDIT SUISSE AG  
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015 D010057 TAIWAN  
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072 A000000 12  
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081	A000000	Y
081	B000000	49
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	N
085	B000000	N
	PAGE	16
086	A010000	136
086	A020000	1745
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
088	C000000	N

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088 D000000 Y  
SIGNATURE MARK E. BRADLEY  
TITLE TREASURER