

PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST

Form NSAR-A

November 29, 2017

PAGE 1
000 A000000 09/30/2017
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 AMUNDI PIONEER ASSET MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
008 D010001 BOSTON
008 D020001 MA
008 D030001 02109
008 D040001 1820
010 A000001 AMUNDI PIONEER ASSET MANAGEMENT, INC.
010 B000001 801-8255
010 C010001 BOSTON
010 C020001 MA
010 C030001 02109
010 C040001 1820
010 A000002 BROWN BROTHERS HARRIMAN & CO.
010 C010002 BOSTON
010 C020002 MA
010 C030002 02110
011 A000001 AMUNDI PIONEER DISTRIBUTOR, INC.
011 B000001 8-41256
PAGE 2
011 C010001 BOSTON
011 C020001 MA
011 C030001 02109
011 C040001 1820
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

011 C010002 STAMFORD
011 C020002 CT
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 DELETE
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
015 A000001 BROWN BROTHERS HARRIMAN & CO.
015 B000001 C
015 C010001 BOSTON
015 C020001 MA
PAGE 3
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
015 B000004 S
015 C010004 VIENNA
015 D010004 AUSTRIA

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

015 E040004 X
015 A000005 STANDARD CHARTERED BANK, BANGLADESH BRANCH
015 B000005 S
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
015 C010008 SAO PAULO
015 D010008 BRAZIL
015 E040008 X
015 A000009 CITIBANK EUROPE PLC, BULGARIA 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
015 B000011 S
015 C010011 SANTIAGO
015 D010011 CHILE
015 E040011 X
015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
015 B000012 S
015 C010012 SHANGHAI
PAGE 4
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
015 C010016 CAIRO
015 D010016 EGYPT
015 E040016 X
015 A000017 NORDEA BANK AB (PUBL), FINNISH BRANCH
015 B000017 S
015 C010017 HELSINKI
015 D010017 FINLAND

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

015 E040017 X
015 A000018 BNP PARIBAS SECURITIES SERVICES
015 B000018 S
015 C010018 PANTIN
015 D010018 FRANCE
015 E040018 X
015 A000019 BNP PARIBAS SECURITIES SERVICES,FRANKFURT B
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
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, N.A., LONDON BRANCH
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
015 E040028 X
015 A000029 SUMITOMO MITSU BANKING CORPORATION
015 B000029 S
015 C010029 TOKYO
015 D010029 JAPAN
015 E040029 X

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

015 A000030 NORDEA BANK AB (PUBL), FINNISH BRANCH
015 B000030 S
015 C010030 HELSINKI
015 D010030 ESTONIA
015 E040030 X
015 A000031 EUROCLEAR BANK SA NV
015 B000031 S
015 C010031 BRUSSELS
015 D010031 BELGIUM
015 E040031 X
015 A000032 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000032 S
015 C010032 KUWAIT CITY
015 D010032 KUWAIT
015 E040032 X

PAGE 6

015 A000033 KBL EUROPEAN PRIVATE BANKERS SA
015 B000033 S
015 C010033 LUXEMBOURG
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 AB (PUBL), FILIAL I NORGE
015 B000040 S
015 C010040 OSLO
015 D010040 NORWAY
015 E040040 X
015 A000041 CITIBANK DEL PERU S.A.
015 B000041 S
015 C010041 LIMA
015 D010041 PERU
015 E040041 X
015 A000042 HSBC LIMITED, PHILIPPINE BRANCH

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

015 B000042 S
015 C010042 TAGUIG CITY
015 D010042 PHILIPPINES
015 E040042 X
015 A000043 BANK HANDLOWY W WARSZAWIE SA
PAGE 7
015 B000043 S
015 C010043 WARSAW
015 D010043 POLAND
015 E040043 X
015 A000044 BNP PARIBAS SECURITIES SERVICES
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
015 A000047 AO CITIBANK FOR CITIBANK, N.A.
015 B000047 S
015 C010047 MOSCOW
015 D010047 RUSSIA
015 E040047 X
015 A000048 DELETE
015 A000049 STANDARD CHARTERED BANK SINGAPORE BRANCH
015 B000049 S
015 C010049 SINGAPORE
015 D010049 SINGAPORE
015 E040049 X
015 A000050 CITIBANK EUROPE PLC, POBOCKA ZAHRANICNEJ BANK
015 B000050 S
015 C010050 BRATISLAVA
015 D010050 SLOVAKIA
015 E040050 X
015 A000051 STANDARD CHARTERED BANK JOHANNESBURG BRANCH
015 B000051 S
015 C010051 SANDTON
015 D010051 SOUTH AFRICA
015 E040051 X
015 A000052 CITIBANK KOREA INC.
015 B000052 S
015 C010052 SEOUL
015 D010052 SOUTH KOREA
015 E040052 X
015 A000053 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000053 S
015 C010053 MADRID
015 D010053 SPAIN
015 E040053 X
015 A000054 HSBC, SRI LANKA BRANCH
PAGE 8
015 B000054 S
015 C010054 COLOMBO
015 D010054 SRI LANKA
015 E040054 X

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

015 A000055 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)
015 B000055 S
015 C010055 SOLNA
015 D010055 SWEDEN
015 E040055 X
015 A000056 CREDIT SUISSE (SWITZERLAND) LTD.
015 B000056 S
015 C010056 ZURICH
015 D010056 SWITZERLAND
015 E040056 X
015 A000057 BANK OF TAIWAN
015 B000057 S
015 C010057 TAIPEI
015 D010057 TAIWAN
015 E040057 X
015 A000058 HSBC LIMITED, THAILAND BRANCH
015 B000058 S
015 C010058 BANGKOK
015 D010058 THAILAND
015 E040058 X
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
015 E040060 X
015 A000061 HSBC BANK PLC
015 B000061 S
015 C010061 LONDON
015 D010061 UNITED KINGDOM
015 E040061 X
015 A000062 DELETE
015 A000063 HSBC BANK (VIETNAM) LTD
015 B000063 S
015 C010063 HO CHI MINH CITY
015 D010063 VIETNAM
015 E040063 X
015 A000064 UNICREDIT BANK AUSTRIA AG
015 B000064 S
015 C010064 VIENNA
015 D010064 CROATIA
015 E040064 X
015 A000065 DELETE
PAGE 9
015 A000066 STANDARD CHARTERED BANK KENYA LIMITED
015 B000066 S
015 C010066 NAIROBI
015 D010066 KENYA
015 E040066 X
018 000000 Y
019 A000000 Y
019 B000000 46
019 C000000 PIONEERFDS
020 C000001 0
020 C000002 0
020 C000003 0
020 C000004 0
020 C000005 0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

020	C000006	0
020	C000007	0
020	C000008	0
020	C000009	0
020	C000010	0
021	000000	0
022	A000001	J.P MORGAN SECURITIES LLC
022	B000001	13-3299429
022	C000001	21678
022	D000001	12040
022	A000002	CITIGROUP GLOBAL MARKETS INC.
022	B000002	11-2418191
022	C000002	3100
022	D000002	4602
022	A000003	JEFFERIES LLC
022	B000003	95-2622900
022	C000003	7095
022	D000003	0
022	A000004	SOUTHERN TRUST SECURITIES, INC.
022	B000004	65-0926091
022	C000004	5911
022	D000004	0
022	A000005	ALEXANDER J. SECURITIES
022	B000005	00-0000000
022	C000005	2101
022	D000005	2356
022	A000006	MERRILL LYNCH, PIERCE, FENNER & SMITH INC
022	B000006	13-5674085
022	C000006	3236
022	D000006	0
022	A000007	BROWN BROTHERS HARRIMAN & CO
022	B000007	13-4973745
022	C000007	3236
022	D000007	0
022	A000008	US BANK NATIONAL ASSOCIATION
022	B000008	31-0841368
022	C000008	1790
	PAGE	10
022	D000008	1400
022	A000009	FUNB-FUNDS II
022	B000009	00-0000000
022	C000009	0
022	D000009	2946
022	A000010	BANK OF AMERICA CORP
022	B000010	56-0906609
022	C000010	2022
022	D000010	0
023	C000000	51585
023	D000000	24068
024	000000	N
025	D000001	0
025	D000002	0
025	D000003	0
025	D000004	0
025	D000005	0
025	D000006	0
025	D000007	0
025	D000008	0
026	A000000	N
026	B000000	Y
026	C000000	N
026	D000000	Y

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

026	E000000	N	
026	F000000	N	
026	G010000	N	
026	G020000	N	
026	H000000	N	
027	000000	N	
028	A010000		0
028	A020000		0
028	A030000		0
028	A040000		0
028	B010000		0
028	B020000		0
028	B030000		0
028	B040000		0
028	C010000		0
028	C020000		0
028	C030000		0
028	C040000		0
028	D010000		0
028	D020000		0
028	D030000		0
028	D040000		0
028	E010000		0
028	E020000		0
028	E030000		0
028	E040000		0
028	F010000		0
	PAGE	11	
028	F020000		0
028	F030000		0
028	F040000		0
028	G010000		0
028	G020000		0
028	G030000		0
028	G040000		0
028	H000000		0
030	A000000		0
030	B000000		0.00
030	C000000		0.00
031	A000000		0
031	B000000		0
032	000000		0
033	000000		0
035	000000		0
036	B000000		0
038	000000		0
042	A000000		0
042	B000000		0
042	C000000		0
042	D000000		0
042	E000000		0
042	F000000		0
042	G000000		0
042	H000000		0
043	000000		0
044	000000		0
045	000000	Y	
046	000000	N	
047	000000	Y	
048	000000		0.600
048	A010000		0
048	A020000		0.000

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

048	B010000	0
048	B020000	0.000
048	C010000	0
048	C020000	0.000
048	D010000	0
048	D020000	0.000
048	E010000	0
048	E020000	0.000
048	F010000	0
048	F020000	0.000
048	G010000	0
048	G020000	0.000
048	H010000	0
048	H020000	0.000
048	I010000	0
048	I020000	0.000
048	J010000	0
	PAGE 12	
048	J020000	0.000
048	K010000	0
048	K020000	0.000
049	000000	N
050	000000	N
051	000000	N
052	000000	N
053	A000000	N
054	A000000	Y
054	B000000	Y
054	C000000	Y
054	D000000	N
054	E000000	N
054	F000000	N
054	G000000	N
054	H000000	Y
054	I000000	N
054	J000000	Y
054	K000000	N
054	L000000	N
054	M000000	Y
054	N000000	N
054	O000000	N
055	A000000	N
055	B000000	N
056	000000	N
057	000000	N
058	A000000	N
059	000000	Y
060	A000000	Y
060	B000000	Y
061	000000	0
062	A000000	Y
062	B000000	0.0
062	C000000	0.0
062	D000000	0.0
062	E000000	0.0
062	F000000	0.0
062	G000000	0.0
062	H000000	0.0
062	I000000	0.0
062	J000000	0.0
062	K000000	0.0
062	L000000	0.0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

062 M000000 0.0
 062 N000000 0.0
 062 O000000 150.6
 062 P000000 0.0
 062 Q000000 0.1
 062 R000000 0.0
 063 A000000 0
 PAGE 13
 063 B000000 7.2
 064 A000000 Y
 064 B000000 Y
 065 000000 N
 066 A000000 N
 067 000000 N
 068 A000000 N
 068 B000000 N
 069 000000 N
 070 A010000 Y
 070 A020000 N
 070 B010000 N
 070 B020000 N
 070 C010000 Y
 070 C020000 N
 070 D010000 N
 070 D020000 N
 070 E010000 Y
 070 E020000 N
 070 F010000 N
 070 F020000 N
 070 G010000 Y
 070 G020000 N
 070 H010000 N
 070 H020000 N
 070 I010000 N
 070 I020000 N
 070 J010000 Y
 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 51432
 071 B000000 50854
 071 C000000 431156
 071 D000000 12
 072 A000000 6
 072 B000000 10269
 PAGE 14
 072 C000000 0
 072 D000000 0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

072 E000000	0
072 F000000	1314
072 G000000	108
072 H000000	0
072 I000000	8
072 J000000	4
072 K000000	0
072 L000000	7
072 M000000	8
072 N000000	0
072 O000000	0
072 P000000	0
072 Q000000	0
072 R000000	23
072 S000000	5
072 T000000	0
072 U000000	0
072 V000000	0
072 W000000	138
072 X000000	1615
072 Y000000	0
072 Z000000	8654
072AA000000	2734
072BB000000	0
072CC010000	0
072CC020000	1416
072DD010000	7110
072DD020000	0
072EE000000	0
073 A010000	0.2975
073 A020000	0.0000
073 B000000	0.0000
073 C000000	0.0000
074 A000000	0
074 B000000	0
074 C000000	0
074 D000000	429738
074 E000000	0
074 F000000	0
074 G000000	0
074 H000000	0
074 I000000	0
074 J000000	2005
074 K000000	0
074 L000000	6085
074 M000000	0
074 N000000	437828
074 O000000	0
074 P000000	50
PAGE 15	
074 Q000000	0
074 R010000	0
074 R020000	0
074 R030000	0
074 R040000	2592
074 S000000	149980
074 T000000	285206
074 U010000	23899
074 U020000	0
074 V010000	11.93
074 V020000	0.00
074 W000000	0.0000

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME ADVANTAGE TRUST - Form NSAR-A

074	X000000	4078
074	Y000000	0
075	A000000	0
075	B000000	286057
076	000000	11.55
077	A000000	Y
077	K000000	Y
077	Q010000	Y
078	000000	N
080	C000000	0
081	B000000	0
082	B000000	0
083	B000000	0
084	B000000	0
086	A010000	0
086	A020000	0
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
088	D000000	Y
SIGNATURE	MARK E. BRADLEY	
TITLE	TREASURER	