

PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2016

PAGE 1
000 B000000 04/30/2016
000 C000000 0001223026
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 TRUST
001 B000000 811-21321
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

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

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 ADVEST, INC.
011 B000004 8-21409
011 C010004 HARTFORD
011 C020004 CT
011 C030004 06103
011 A000005 JANNEY MONTGOMERY SCOTT, LLC
011 B000005 8-462
011 C010005 PHILADELPHIA
011 C020005 PA
011 C030005 19103
011 C040005 1675
011 A000006 MCDONALD INVESTMENTS, INC.
011 B000006 8-30177
011 C010006 CLEVELAND
011 C020006 OH
011 C030006 44114
011 C040006 2603
011 A000007 STIFEL, NICOLAUS & CO., INC.
011 B000007 8-001447
011 C010007 ST. LOUIS
011 C020007 MO
011 C030007 63102
012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., 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 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 DELOITTE & TOUCHE LLP
PAGE 3
013 B010001 BOSTON
013 B020001 MA
013 B030001 02116
015 A000001 BROWN BROTHERS HARRIMAN & CO.
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

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 C010003 SYDNEY
015 D010003 AUSTRALIA
015 E040003 X
015 A000004 UNICREDIT BANK AUSTRIA AG
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 NORDEA BANK FINLAND PLC
015 B000007 S
015 C010007 HELSINKI
015 D010007 ESTONIA
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
PAGE 4
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
015 D010012 CHINA
015 E040012 X
015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
015 B000013 S
015 C010013 BOGATA
015 D010013 COLOMBIA
015 E040013 X
015 A000014 UNICREDIT BANK AUSTRIA AG
015 B000014 S
015 C010014 VIENNA
015 D010014 CROATIA
015 E040014 X
015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
015 B000015 S
015 C010015 PRAGUE

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 D010015 CZECH REPUBLIC
015 E040015 X
015 A000016 SKANDINAVISKA ENSKILDA BANKEN AB (PUBL)DAN
015 B000016 S
015 C010016 COPENHAGEN
015 D010016 DENMARK
015 E040016 X
015 A000017 CITIBANK, N.A., CAIRO BRANCH
015 B000017 S
015 C010017 CAIRO
015 D010017 EGYPT
015 E040017 X
015 A000018 NORDEA BANK FINLAND PLC
015 B000018 S
015 C010018 HELSINKI
015 D010018 FINLAND
015 E040018 X
015 A000019 BNP PARIBAS SECURITIES SERVICES
015 B000019 S
015 C010019 PANTIN
015 D010019 FRANCE
015 E040019 X
015 A000020 BNP PARIBAS SECURITIES SERVICES, FRANKFURT
015 B000020 S
015 C010020 FRANKFURT
015 PAGE 5
015 D010020 GERMANY
015 E040020 X
015 A000021 STANDARD CHARTERED BANK GHANA LTD.
015 B000021 S
015 C010021 ACCRA
015 D010021 GHANA
015 E040021 X
015 A000022 HSBC BANK PLC, ATHENS BRANCH
015 B000022 S
015 C010022 ATHENS
015 D010022 GREECE
015 E040022 X
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED
015 B000023 S
015 C010023 KWUN TONG
015 D010023 HONG KONG
015 E040023 X
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE
015 B000024 S
015 C010024 BUDAPEST
015 D010024 HUNGARY
015 E040024 X
015 A000025 CITIBANK, N.A.-MUMBAI BRANCH
015 B000025 S
015 C010025 MUMBAI
015 D010025 INDIA
015 E040025 X
015 A000026 CITIBANK, N.A., JAKARTA BRANCH
015 B000026 S
015 C010026 JAKARTA
015 D010026 INDONESIA
015 E040026 X
015 A000027 CITIBANK, N.A., LONDON BRANCH
015 B000027 S
015 C010027 LONDON
015 D010027 IRELAND

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 E040027 X
015 A000028 BANK HAPOALIM BM
015 B000028 S
015 C010028 TEL AVIV
015 D010028 ISRAEL
015 E040028 X
015 A000029 BNP PARIBAS SECURITIES SERVICES, MILAN BRANCH
015 B000029 S
015 C010029 MILAN
015 D010029 ITALY
015 E040029 X
015 A000030 SUMITOMO MITSU BANKING CORPORATION
015 B000030 S
015 C010030 TOKYO
015 D010030 JAPAN
PAGE 6
015 E040030 X
015 A000031 DELETE
015 A000032 DELETE
015 A000033 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH
015 B000033 S
015 C010033 SAFAT
015 D010033 KUWAIT
015 E040033 X
015 A000034 KBL EUROPEAN PRIVATE BANKERS SA
015 B000034 S
015 C010034 LUXEMBOURG
015 D010034 LUXEMBOURG
015 E040034 X
015 A000035 HSBC BANK MALAYSIA BERHAD
015 B000035 S
015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
015 E040035 X
015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
015 B000036 S
015 C010036 MEXICO CITY
015 D010036 MEXICO
015 E040036 X
015 A000037 CITIBANK MAGHREB
015 B000037 S
015 C010037 CASABLANCA
015 D010037 MOROCCO
015 E040037 X
015 A000038 BNP PARIBAS SECURITIES SERVICES
015 B000038 S
015 C010038 PANTIN
015 D010038 NETHERLANDS
015 E040038 X
015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH
015 B000039 S
015 C010039 AUCKLAND
015 D010039 NEW ZEALAND
015 E040039 X
015 A000040 STANBIC IBTC BANK PLC
015 B000040 S
015 C010040 LAGOS
015 D010040 NIGERIA
015 E040040 X
015 A000041 NORDEA BANK NORGE ASA
015 B000041 S
015 C010041 OSLO

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 D010041 NORWAY
015 E040041 X
015 A000042 CITIBANK DEL PERU S.A.
015 B000042 S
015 C010042 LIMA
PAGE 7
015 D010042 PERU
015 E040042 X
015 A000043 HSBC LIMITED, PHILIPPINE BRANCH
015 B000043 S
015 C010043 TAGUIG CITY
015 D010043 PHILIPPINES
015 E040043 X
015 A000044 BANK HANDLOWY W WARSZAWIE SA
015 B000044 S
015 C010044 WARSAW
015 D010044 POLAND
015 E040044 X
015 A000045 BNP PARIBAS SECURITIES SERVICES
015 B000045 S
015 C010045 PANTIN
015 D010045 PORTUGAL
015 E040045 X
015 A000046 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
015 B000046 S
015 C010046 JERSEY
015 D010046 QATAR
015 E040046 X
015 A000047 DELETE
015 A000048 AO CITIBANK FOR CITIBANK N.A.
015 B000048 S
015 C010048 MOSCOW
015 D010048 RUSSIA
015 E040048 X
015 A000049 DELETE
015 A000050 STANDARD CHARTERED BANK SINGAPORE BRANCH
015 B000050 S
015 C010050 SINGAPORE
015 D010050 SINGAPORE
015 E040050 X
015 A000051 DELETE
015 A000052 STANDARD CHARTERED BANK, JOHANNESBURG BRANCH
015 B000052 S
015 C010052 JOHANNESBURG
015 D010052 SOUTH AFRICA
015 E040052 X
015 A000053 CITIBANK KOREA INC
015 B000053 S
015 C010053 SEOUL
015 D010053 SOUTH KOREA
015 E040053 X
015 A000054 BANCO BILBAO VIZCAYA AREGENTARIA SA
015 B000054 S
015 C010054 MADRID
015 D010054 SPAIN
015 E040054 X
015 A000055 HSBC, SRI LANKA BRANCH
PAGE 8
015 B000055 S
015 C010055 COLOMBO
015 D010055 SRI LANKA
015 E040055 X

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 A000056 SKANDINAVISKA ENSKILDA BANKEN AB (PUB)
015 B000056 S
015 C010056 STOCKHOLM
015 D010056 SWEDEN
015 E040056 X
015 A000057 CREDIT SUISSE AG
015 B000057 S
015 C010057 ZURICH
015 D010057 SWITZERLAND
015 E040057 X
015 A000058 BANK OF TAIWAN
015 B000058 S
015 C010058 TAIPEI
015 D010058 TAIWAN
015 E040058 X
015 A000059 HSBC LIMITED, THAILAND BRANCH
015 B000059 S
015 C010059 BANGKOK
015 D010059 THAILAND
015 E040059 X
015 A000060 CITIBANK ANONIM SIRKETI
015 B000060 S
015 C010060 ISTANBUL
015 D010060 TURKEY
015 E040060 X
015 A000061 HSBC BANK MIDDLE EAST LIMITED
015 B000061 S
015 C010061 DUBAI
015 D010061 UNITED ARAB EMIRATES
015 E040061 X
015 A000062 HSBC BANK PLC
015 B000062 S
015 C010062 LONDON
015 D010062 UNITED KINGDOM
015 E040062 X
015 A000063 CITIBANK, N.A., CARACAS BRANCH
015 B000063 S
015 C010063 CARACAS
015 D010063 VENEZUELA
015 E040063 X
015 A000064 HSBC BANK (VIETNAM) LTD
015 B000064 S
015 C010064 HO CHI MINH CITY
015 D010064 VIETNAM
015 E040064 X
015 A000065 STANDARD CHARTERED BANK KENYA LIMITED
015 B000065 S
015 PAGE 9
015 C010065 NAIROBI
015 D010065 KENYA
015 E040065 X
015 A000066 CITIBANK EUROPE PLC, DUBLIN-SUCURSALA ROMANIA
015 B000066 S
015 C010066 BRATISLAVA
015 D010066 ROMANIA
015 E040066 X
015 A000067 CITIBANK EUROPE PLC, POBOCKA ZAHRANICNEJ BANKY
015 B000067 S
015 C010067 BRATISLAVA
015 D010067 SLOVAKIA
015 E040067 X
015 B000068 S

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

015 E040068 X
 018 000000 Y
 019 A000000 Y
 019 B000000 49
 019 C000000 PIONEERFDS
 020 C000001 0
 020 C000002 0
 020 C000003 0
 020 C000004 0
 020 C000005 0
 020 C000006 0
 020 C000007 0
 020 C000008 0
 020 C000009 0
 020 C000010 0
 021 000000 0
 022 A000001 BNY MELLON CAPITAL MARKETS, LLC
 022 B000001 23-2384977
 022 C000001 22450
 022 D000001 30099
 022 A000002 DEUTSCHE BANK SECURITIES INC.
 022 B000002 13-2730828
 022 C000002 29797
 022 D000002 0
 022 A000003 SG AMERICAS SECURITIES, LLC
 022 B000003 30-0019550
 022 C000003 23995
 022 D000003 0
 022 A000004 J.P. MORGAN SECURITIES LLC
 022 B000004 13-3299429
 022 C000004 19284
 022 D000004 4190
 022 A000005 UBS SECURITIES LLC
 022 B000005 13-3873456
 022 C000005 19597
 022 D000005 0
 022 A000006 CITIGROUP GLOBAL MARKETS INC.
 PAGE 10
 022 B000006 11-2418191
 022 C000006 9005
 022 D000006 3700
 022 A000007 MORGAN STANLEY & CO. LLC
 022 B000007 13-2655998
 022 C000007 10000
 022 D000007 0
 022 A000008 JEFFERIES LLC
 022 B000008 95-2622900
 022 C000008 8132
 022 D000008 0
 022 A000009 BROWN BROTHERS HARRIMAN & CO.
 022 B000009 13-4973745
 022 C000009 4453
 022 D000009 0
 022 A000010 STIFEL, NICHOLAUS & COMPANY, INCORPORATED
 022 B000010 43-0538770
 022 C000010 492
 022 D000010 0
 023 C000000 147204
 023 D000000 38440
 024 000000 N
 025 D000001 0
 025 D000002 0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

025	D000003	0
025	D000004	0
025	D000005	0
025	D000006	0
025	D000007	0
025	D000008	0
026	A000000	Y
026	B000000	Y
026	C000000	N
026	D000000	Y
026	E000000	N
026	F000000	N
026	G010000	N
026	G020000	Y
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
	PAGE 11	
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
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

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

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
048	B010000	0
048	B020000	0.000
048	C010000	0
048	C020000	0.000
048	D010000	0
048	D020000	0.000
048	E010000	0
	PAGE	12
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
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	3.2

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

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

PAGE 13

062 J000000 0.0
062 K000000 0.0
062 L000000 0.0
062 M000000 0.0
062 N000000 0.0
062 O000000 126.1
062 P000000 0.0
062 Q000000 0.2
062 R000000 0.0
063 A000000 0
063 B000000 9.2

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

PAGE 14

070 Q010000 N
070 Q020000 N

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

070	R010000	N	
070	R020000	N	
071	A000000		33587
071	B000000		37060
071	C000000		382068
071	D000000		9
072	A000000	12	
072	B000000		21977
072	C000000		0
072	D000000		0
072	E000000		0
072	F000000		2417
072	G000000		223
072	H000000		0
072	I000000		15
072	J000000		6
072	K000000		0
072	L000000		5
072	M000000		14
072	N000000		0
072	O000000		0
072	P000000		0
072	Q000000		0
072	R000000		64
072	S000000		37
072	T000000		0
072	U000000		0
072	V000000		0
072	W000000		375
072	X000000		3156
072	Y000000		0
072	Z000000		18821
072AA	000000		151
072BB	000000		0
072CC	010000		4498
072CC	020000		0
072DD	010000		19103
072DD	020000		0
072EE	000000		0
073	A010000		0.8400
073	A020000		0.0000
073	B000000		0.0000
073	C000000		0.0000
074	A000000		3489
074	B000000		0
074	C000000		9799
074	D000000		387817
074	E000000		0
074	F000000		0
	PAGE	15	
074	G000000		0
074	H000000		0
074	I000000		0
074	J000000		130
074	K000000		0
074	L000000		7126
074	M000000		69
074	N000000		408430
074	O000000		0
074	P000000		199
074	Q000000		0
074	R010000		0

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

074	R020000	0
074	R030000	0
074	R040000	199
074	S000000	101005
074	T000000	307027
074	U010000	22757
074	U020000	0
074	V010000	13.49
074	V020000	0.00
074	W000000	0.0000
074	X000000	4435
074	Y000000	0
075	A000000	0
075	B000000	302192
076	000000	14.07
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	49
	PAGE	16
082	A000000	Y
082	B000000	0
083	A000000	N
083	B000000	0
084	A000000	N
084	B000000	0
085	A000000	Y
085	B000000	N
086	A010000	18
086	A020000	243
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	723763108

Edgar Filing: PIONEER MUNICIPAL HIGH INCOME TRUST - Form NSAR-B

087 A030000 MHI
087 B010000 PREFERRED STOCK - SERIES A
087 B020000 723763207
087 C010000 PREFERRED STOCK - SERIES B
087 C020000 723763306
088 A000000 N
088 B000000 N
088 C000000 N
088 D000000 Y
SIGNATURE MARK BRADLEY
TITLE TREASURER