

PIONEER MUNICIPAL HIGH INCOME TRUST
Form NSAR-B
June 26, 2015

PAGE 1
000 B000000 04/30/2015
000 C000000 0001223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
002 B000000 BOSTON
002 C000000 MA
002 D010000 02109
003 000000 N
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006 000000 N
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
008 C000001 801-8255
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010 C020001 MA
010 C030001 02109
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 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
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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 85-00000
012 C010003 NEW YORK
012 C020003 NY
012 C030003 10005
013 A000001 DELOITTE & TOUCHE LLP
PAGE 3
013 B010001 BOSTON
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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

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015 C010003 SYDNEY
015 D010003 AUSTRALIA
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015 B000004 S
015 C010004 VIENNA
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015 E040004 X
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015 A000006 BNP PARIBAS SECURITIES SERVICES
015 B000006 S
015 C010006 PANTIN
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
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015 D010008 BRAZIL
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015 A000009 CITIBANK EUROPE PLC, BULGARIA BRANCH
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015 C010011 SANTIAGO
015 D010011 CHILE
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015 A000012 STANDARD CHARTERED BANK (CHINA) LIMITED
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015 A000013 CITITRUST COLOMBIA S.A., SOCIEDAD FIDUCIARA
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015 A000014 UNICREDIT BANK AUSTRIA AG
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015 C010014 VIENNA
015 D010014 CROATIA
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015 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA
015 B000015 S
015 C010015 PRAGUE

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015 D010015 CZECH REPUBLIC
015 E040015 X
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015 C010016 COPENHAGEN
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015 A000017 CITIBANK, N.A., CAIRO BRANCH
015 B000017 S
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015 D010017 EGYPT
015 E040017 X
015 A000018 NORDEA BANK FINLAND PLC
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015 E040018 X
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015 D010020 GERMANY
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.
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015 C010021 ACCRA
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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
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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
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015 C010027 LONDON
015 D010027 IRELAND

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015 E040027 X
015 A000028 BANK HAPOALIM BM
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015 C010028 TEL AVIV
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015 A000030 SUMITOMO MITSU BANKING CORPORATION
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015 A000034 KBL EUROPEAN PRIVATE BANKERS SA
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015 C010034 LUXEMBOURG
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015 A000035 HSBC BANK MALAYSIA BERHAD
015 B000035 S
015 C010035 KUALA LUMPUR
015 D010035 MALAYSIA
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015 A000036 BANCO NACIONAL DE MEXICO, S.A. (BANAMEX)
015 B000036 S
015 C010036 MEXICO CITY
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015 E040036 X
015 A000037 CITIBANK MAGHREB
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015 C010037 CASABLANCA
015 D010037 MOROCCO
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015 A000038 BNP PARIBAS SECURITIES SERVICES
015 B000038 S
015 C010038 PARIS
015 D010038 NETHERLANDS
015 E040038 X
015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH
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015 E040039 X
015 A000040 STANBIC IBTC BANK PLC
015 B000040 S
015 C010040 LAGOS
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015 E040040 X
015 A000041 NORDEA BANK NORGE ASA
015 B000041 S
015 C010041 OSLO

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015 D010041 NORWAY
015 E040041 X
015 A000042 CITIBANK DEL PERU S.A.
015 B000042 S
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PAGE 7
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015 A000043 HSBC LIMITED, PHILIPPINE BRANCH
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015 C010043 TAGUIG CITY
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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
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015 A000046 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH
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015 D010046 QATAR
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015 A000051 DELETE
015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED
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015 A000053 CITIBANK KOREA INC
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015 C010053 SEOUL
015 D010053 SOUTH KOREA
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015 A000054 BANCO BILBAO VIZCAYA AREGENTARIA SA
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015 C010054 MADRID
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015 B000055 S
015 C010055 COLOMBO
015 D010055 SRI LANKA
015 E040055 X

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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
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015 C010058 TAIPEI
015 D010058 TAIWAN
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015 A000059 HSBC LIMITED, THAILAND BRANCH
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015 C010059 BANGKOK
015 D010059 THAILAND
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015 A000060 CITIBANK ANONIM SIRKETI
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015 C010060 ISTANBUL
015 D010060 TURKEY
015 E040060 X
015 A000061 HSBC BANK MIDDLE EAST LIMITED
015 B000061 S
015 C010061 DUBAI
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015 A000062 HSBC BANK PLC
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022 A000001 J.P. MORGAN SECURITIES INC.
022 B000001 13-3379014
022 C000001 29450
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022 A000002 BNY MELLON CAPITAL MARKETS, LLC
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022 C000002 4911
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022 A000003 FIRST SOUTHWEST COMPANY
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022 A000004 JEFFRIES & COMPANY, INC.
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022 A000007 MORGAN STANLEY & CO. LLC
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087 C010000 PREFERRED STOCK - SERIES B
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SIGNATURE MARK BRADLEY
TITLE TREASURER