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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 28, 2013

PAGE 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  
004 000000 N  
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008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
010 C010001 BOSTON  
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010 A000002 BROWN BROTHERS HARRIMAN & CO.  
010 C010002 BOSTON  
010 C020002 MA  
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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 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 ERNST & YOUNG LLP  
PAGE 3  
013 B010001 BOSTON  
013 B020001 MA  
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015 A000001 BROWN BROTHERS HARRIMAN & CO.  
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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

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015 B000003 S  
015 C010003 SYDNEY  
015 D010003 AUSTRALIA  
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015 A000004 UNICREDIT BANK AUSTRIA AG  
015 B000004 S  
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015 A000006 BNP PARIBAS SECURITIES SERVICES  
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015 C010006 PARIS  
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015 E040006 X  
015 A000007 EUROCLEAR BANK SA NV  
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015 C010007 BRUSSELS  
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015 E040007 X  
015 A000008 CITIBANK, N.A., SAO PAULO  
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015 D010008 BRAZIL  
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015 A000009 ING BANK, N.V., SOFIA BRANCH  
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015 D010009 BULGARIA  
015 E040009 X  
015 A000010 RBC INVESTOR SERVICES TRUST  
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015 B000010 S  
015 C010010 TORONTO  
015 D010010 CANADA  
015 E040010 X  
015 A000011 BANCO DE 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 A000015 CITIBANK EUROPE PLC, ORGANIZACNI SLOZKA  
015 B000015 S

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015 C010015 PRAGUE  
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  
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015 E040018 X  
015 A000019 BNP PARIBAS SECURITIES SERVICES  
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015 A000020 BNP PARIBAS SECURITIES SERVICES, FRANKFURT  
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015 A000021 STANDARD CHARTERED BANK GHANA LTD.  
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015 E040021 X  
015 A000022 HSBC BANK PLC, ATHENS BRANCH  
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015 C010022 ATHENS  
015 D010022 GREECE  
015 E040022 X  
015 A000023 STANDARD CHARTERED BANK (HONG KONG) LIMITED  
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015 D010023 HONG KONG  
015 E040023 X  
015 A000024 CITIBANK EUROPE PLC, HUNGARIAN BRANCH OFFICE  
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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

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015 D010027 IRELAND  
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015 A000028 BANK HAPOALIM BM  
015 B000028 S  
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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  
015 E040030 X  
015 A000031 HSBC BANK MIDDLE EAST LIMITED, JORDAN BRANCH  
015 B000031 S  
015 C010031 AMMAN  
015 D010031 JORDAN  
015 E040031 X  
015 A000032 CFC STANBIC BANK LIMITED  
015 B000032 S  
015 C010032 NAIROBI  
015 D010032 KENYA  
015 E040032 X  
015 A000033 HSBC BANK MIDDLE EAST LIMITED, KUWAIT BRANCH  
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015 C010033 SAFAT  
015 D010033 KUWAIT  
015 E040033 X  
015 A000034 KBL EUROPEAN PRIVATE BANKERS SA  
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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  
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015 E040036 X  
015 A000037 CITIBANK MAGHREB  
015 B000037 S  
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015 D010037 MOROCCO  
015 E040037 X  
015 A000038 BNP PARIBAS SECURITIES SERVICES  
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015 A000039 HSBC LIMITED, NEW ZEALAND BRANCH  
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015 D010039 NEW ZEALAND

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015 E040039 X  
015 A000040 STANBIC IBTC BANK PLC  
015 B000040 S  
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PAGE 7  
015 E040040 X  
015 A000041 NORDEA BANK NORGE ASA  
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015 A000042 CITIBANK DEL PERU S.A.  
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015 A000043 HSBC LIMITED, PHILLIPINE BRANCH  
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015 D010043 PHILLIPINES  
015 E040043 X  
015 A000044 BANK HANDLOWY W WARSZAWIE SA  
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015 A000046 HSBC BANK MIDDLE EAST LIMITED, QATAR BRANCH  
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015 E040046 X  
015 A000047 ING BANK N.V., BUCHAREST BRANCH  
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015 D010047 ROMANIA  
015 E040047 X  
015 A000048 ZAO CITIBANK  
015 B000048 S  
015 C010048 MOSCOW  
015 D010048 RUSSIA  
015 E040048 X  
015 A000049 HSBC SAUDI ARABIA LIMITED  
015 B000049 S  
015 C010049 RIYADH  
015 D010049 SAUDI ARABIA  
015 E040049 X  
015 A000050 STANDARD CHARTERED BANK SINGAPORE BRANCH  
015 B000050 S  
015 C010050 SINGAPORE  
015 D010050 SINGAPORE  
015 E040050 X  
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015 A000051 ING BANK NV, BRATISLAVA BRANCH  
015 B000051 S  
015 C010051 BRATISLAVA  
015 D010051 SLOVAKIA

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015 E040051 X  
015 A000052 STANDARD BANK OF SOUTH AFRICA LIMITED  
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  
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015 A000055 HSBC, SRI LANKA BRANCH  
015 B000055 S  
015 C010055 COLOMBO  
015 D010055 SRI LANKA  
015 E040055 X  
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  
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015 D010059 THAILAND  
015 E040059 X  
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  
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015 A000062 HSBC BANK PLC  
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015 D010062 UNITED KINGDOM  
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015 A000063 CITIBANK, N.A., CARACAS BRANCH  
015 B000063 S  
015 C010063 CARACAS  
015 D010063 VENEZUELA  
015 E040063 X

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015 A000064 HSBC BANK (VIETNAM) LTD  
015 B000064 S  
015 C010064 HO CHI MINH CITY  
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020 A000001 SANFORD C. BERNSTEIN & CO., LLC  
020 B000001 13-4132953  
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020 A000002 UBS SECURITIES LLC  
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020 A000003 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
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022 A000001 J.P. MORGAN SECURITIES LLC  
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022 A000002 CITIGROUP GLOBAL MARKETS INC  
022 B000002 11-2418191  
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022 A000003 BNY MELLON CAPITAL MARKETS, LLC  
022 B000003 23-2384977  
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022 A000004 ALLIANCEBERNSTEIN INVESTMENTS, INC.  
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022 A000005 MORGAN KEEGAN & COMPANY, INC  
022 B000005 64-0474907  
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022 A000006 OPPENHEIMER & CO. INC.  
022 B000006 13-5657518  
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022 A000007 CLEARVIEW TRADING ADVISORS, INC.  
022 B000007 14-1981175  
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022 A000008 GEORGE K. BAUM & COMPANY  
022 B000008 43-1661917  
022 C000008 1400  
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022 A000009 MERRILL LYNCH, PIERCE, FENNER & SMITH INC.  
022 B000009 13-5674085  
022 C000009 0



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PAGE 14  
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077	I000000	N
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077	K000000	N
077	L000000	N
077	M000000	N
077	N000000	N
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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	57
082	A000000	N
082	B000000	0
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083	B000000	0
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084	B000000	0
085	A000000	N
085	B000000	N
086	A010000	69
086	A020000	1043
086	B010000	0
086	B020000	0

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086	C010000	0
086	C020000	0
086	D010000	0
086	D020000	0
086	E010000	0
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086	F010000	0
086	F020000	0
087	A010000	COMMON STOCK
087	A020000	723763108
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	