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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 30, 2010

PAGE 1
000 A000000 10/31/2010
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
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001 B000000 811-21321
001 C000000 6177427825
002 A000000 60 STATE STREET
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007 C010900 9
007 C011000 10
008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
008 B000001 A
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008 D020001 MA
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010 C020001 MA
010 C030001 02109
010 A000002 STATE STREET BANK & TRUST COMPANY
010 C010002 BOSTON
010 C020002 MA
010 C030002 02101
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
011 C010001 BOSTON
011 C020001 MA
PAGE 2
011 C030001 02109
011 A000002 UBS INVESTMENT BANK
011 B000002 8-022651
011 C010002 STAMFORD
011 C020002 CT
011 C030002 06901

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011 A000003 RBC CAPITAL MARKETS CORP.
 011 B000003 8-045411
 011 C010003 MINNEAPOLIS
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 011 C030003 55402
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 011 A000004 ADVEST, INC.
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 011 C010004 HARTFORD
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 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
 013 B010001 BOSTON
 PAGE 3
 013 B020001 MA
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 013 B040001 5072
 015 A000001 BROWN BROTHERS HARRIMAN & CO.
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022	B000005	41-0953246
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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 E. BRADLEY	
TITLE	TREASURER	