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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 29, 2010

PAGE 1
000 B000000 04/30/2010
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
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
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006 000000 N
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.
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010 A000002 PRINCETON ADMINISTRATORS, LLC
010 C010002 PRINCETON
010 C020002 NJ
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010 C040002 9095
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
011 C010001 BOSTON
PAGE 2
011 C020001 MA
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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.
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 011 A000004 ADVEST, INC.
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 011 A000005 JANNEY MONTGOMERY SCOTT, LLC
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 011 A000006 MCDONALD INVESTMENTS, INC.
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 012 A000001 PIONEER INVEST. MGT. SHAREHOLDER SVCS., INC.
 012 B000001 85-01359
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 012 A000002 AMERICAN STOCK TRANSFER & TRUST CO. (COMMON)
 012 B000002 85-00000
 012 C010002 BROOKLYN
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 012 B000003 85-00000
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 013 A000001 ERNST & YOUNG LLP
 PAGE 3
 013 B010001 BOSTON
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087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
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088 B000000 N

088 C000000 N

088 D000000 Y

SIGNATURE MARY KELLERMANN

TITLE ACCOUNTING MANAGER