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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2005

PAGE 1
000 A000000 10/31/2005
000 C000000 1223026
000 D000000 N
000 E000000 NF
000 F000000 Y
000 G000000 N
000 H000000 N
000 I000000 6.1
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.
011 B000001 8-12345678
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PAGE 2
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011 C010002 STAMFORD
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 011 C040006 2603
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 011 C020007 MO
 011 C030007 63102
 012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.
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 012 A000002 MELLON INVESTOR SERVICES LLC (COMMON)
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 013 A000001 ERNST & YOUNG LLP
 PAGE 3
 013 B010001 BOSTON
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087	B020000	723763207
087	C010000	PREFERRED STOCK - SERIES B
087	C020000	723763306
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	