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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-B

June 27, 2006

PAGE 1  
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000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
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008 B000001 A  
008 C000001 801-8255  
008 D010001 BOSTON  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 C010001 BOSTON  
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010 A000002 PRINCETON ADMINISTRATORS, L.P.  
010 C010002 PRINCETON  
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010 C040002 9095  
011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-12345678  
011 C010001 BOSTON  
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011 C020001 MA  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD  
011 C020002 CT

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011 C030002 06901  
011 A000003 RBC CAPITAL MARKETS  
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011 C010003 MINNEAPOLIS  
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011 A000004 ADVEST, INC.  
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011 A000005 JANNEY MONTGOMERY SCOTT LLC  
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011 C010005 PHILADELPHIA  
011 C020005 PA  
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011 C040005 1675  
011 A000006 MCDONALD INVESTMENTS INC.  
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011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
011 B000007 8-001447  
011 C010007 ST. LOUIS  
011 C020007 MO  
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012 A000001 PIONEER INV. MGMT. SHAREHOLDER SERVICES, INC.  
012 B000001 85-00000  
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012 A000002 MELLON INVESTOR SERVICES LLC (COMMON)  
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012 C010002 RIDGEFIELD PARK  
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
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012 C010003 NEW YORK  
012 C020003 NY  
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013 A000001 ERNST & YOUNG LLP  
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013 B010001 BOSTON  
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022 A000004 UBS SECURITIES LLC  
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022 A000005 HERBERT J. SIMS & CO., INC.  
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022 A000006 CORBY CAPITAL MARKETS, INC.  
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022 A000007 CITIGROUP GLOBAL MARKETS INC.  
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022 C000007 2569  
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022 A000008 PIPER JAFFRAY & CO.  
022 B000008 41-0953246  
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022 A000009 STERNE, AGEE & LEACH, INC.  
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022 A000010 RAYMOND JAMES & ASSOCIATES, INC.  
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	