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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 27, 2007

PAGE 1  
000 A000000 10/31/2007  
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000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
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000 J000000 A  
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001 B000000 811-21321  
001 C000000 6177427825  
002 A000000 60 STATE STREET  
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008 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
010 B000001 801-8255  
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010 A000002 PRINCETON ADMINISTRATORS, LLC  
010 C010002 PRINCETON  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
011 B000001 8-12345678  
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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  
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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 A000006 MCDONALD INVESTMENTS, INC.  
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011 C010006 CLEVELAND  
011 C020006 OH  
011 C030006 44114  
011 C040006 2603  
011 A000007 STIFEL, NICOLAUS & COMPANY, INC.  
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011 C010007 ST. LOUIS  
011 C020007 MO  
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012 A000001 PIONEER INVESTMENT MGT. SHAREHOLDER SERVICES  
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012 A000003 DEUTSCHE BANK TRUST COMPANY AMERICAS (PREF.)  
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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 B000005 41-0953246  
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022 A000006 HERBERT J. SIMS & CO., INC.  
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022 A000008 CITIGROUP GLOBAL MARKETS, INC.  
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SIGNATURE	MARY KELLERMANN	
TITLE	ACCOUNTING MANAGER	