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PIONEER MUNICIPAL HIGH INCOME TRUST

Form NSAR-A

December 29, 2004

PAGE 1  
000 A000000 10/31/2004  
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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  
002 B000000 BOSTON  
002 C000000 MA  
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007 C010900 9  
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008 B000001 A  
008 C000001 801-8255  
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010 A000001 PIONEER INVESTMENT MANAGEMENT, INC.  
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010 A000002 PRINCETON ADMINISTRATORS, L.P.  
010 C010002 PRINCETON  
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011 A000001 PIONEER FUNDS DISTRIBUTOR, INC.  
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011 C020001 MA  
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011 A000002 UBS WARBURG  
011 B000002 8-022651  
011 C010002 STAMFORD  
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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 C010005 PHILADELPHIA  
011 C020005 PA  
011 C030005 19103  
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011 A000006 MCDONALD INVESTMENTS INC.  
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011 A000007 STIFEL, NICOLAUS & COMPANY INCORPORATED  
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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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022 A000004 CORBY CAPITAL MARKETS, INC.  
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022 A000007 RAYMOND JAMES & ASSOCIATES, INC.  
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022 A000009 RBC DAIN RAUSCHER INC.  
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| SIGNATURE | MARY KELLERMANN    |                            |
| TITLE     | ACCOUNTING MANAGER |                            |