

BLACKROCK APEX MUNICIPAL FUND INC  
Form NSAR-B  
June 29, 2010

PAGE 1  
000 B000000 04/30/2010  
000 C000000 0000817998  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 BLACKROCK APEX MUNICIPAL FUND, INC.  
001 B000000 811-05227  
001 C000000 8004417762  
002 A000000 100 BELLEVUE PARKWAY  
002 B000000 WILMINGTON  
002 C000000 DE  
002 D010000 19809  
003 000000 N  
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007 A000000 N  
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007 C010600 6  
007 C010700 7  
007 C010800 8  
007 C010900 9  
007 C011000 10  
008 A000001 BLACKROCK ADVISORS, LLC  
008 B000001 A  
008 C000001 801-47710  
008 D010001 WILMINGTON  
008 D020001 DE  
008 D030001 19809  
008 A000002 BLACKROCK INVESTMENT MANAGEMENT, LLC  
008 B000002 S  
008 C000002 801-56972  
008 D010002 PLAINSBORO  
008 D020002 NJ  
008 D030002 08536  
012 A000001 BNY MELLON SHAREOWNER SERVICES  
012 B000001 85-05006  
012 C010001 JERSEY CITY  
012 C020001 NJ  
012 C030001 07310  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 PRINCETON  
PAGE 2  
013 B020001 NJ  
013 B030001 08540  
014 A000001 BB & T AM DISTRIBUTORS, INC.  
014 B000001 8-52396  
014 A000002 BLACKROCK CAPITAL MARKETS, LLC  
014 B000002 8-67827

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014 A000003 BLACKROCK EXECUTION SERVICES  
014 B000003 8-48719  
014 A000004 BLACKROCK FUND DISTRIBUTION COMPANY  
014 B000004 8-67795  
014 A000005 BLACKROCK INVESTMENTS, LLC  
014 B000005 8-48436  
014 A000006 FAIRHOLME DISTRIBUTORS, INC.  
014 B000006 8-68327  
014 A000007 HARRIS WILLIAMS LLC  
014 B000007 8-53380  
014 A000008 HIGHMARK FUNDS DISTRIBUTORS, INC.  
014 B000008 8-67903  
014 A000009 MGI FUNDS DISTRIBUTOR, INC.  
014 B000009 8-46960  
014 A000010 PFPC DISTRIBUTORS, INC.  
014 B000010 8-45467  
014 A000011 PNC CAPITAL MARKETS, INC.  
014 B000011 8-32493  
014 A000012 PNC INVESTMENTS LLC  
014 B000012 8-66195  
014 A000013 RED CAPITAL MARKETS, INC.  
014 B000013 8-31175  
015 A000001 THE BANK OF NEW YORK MELLON  
015 B000001 C  
015 C010001 NEW YORK  
015 C020001 NY  
015 C030001 10286  
015 E010001 X  
015 A000002 J.P. MORGAN CHASE BANK  
015 B000002 S  
015 C010002 NEW YORK  
015 C020002 NY  
015 C030002 10017  
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020 A000001 RBS SECURITIES INC.  
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022 A000001 FFI INSTITUTIONAL TAX-EXEMPT FUND  
022 B000001 22-2509978  
022 C000001 46746  
022 D000001 46198  
022 A000002 CITIGROUP GLOBAL MARKETS, INC.  
022 B000002 11-2418191  
022 C000002 16348  
022 D000002 11113  
022 A000003 B.C. ZIEGLER AND COMPANY  
022 B000003 39-0727640  
022 C000003 11103

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022 D000003 1967  
022 A000004 D.A. DAVIDSON & CO.  
022 B000004 81-0139474  
022 C000004 5693  
022 D000004 6926  
022 A000005 PRAGER, SEALY & CO., LLC  
022 B000005 94-3057440  
022 C000005 301  
022 D000005 9151  
022 A000006 MERRILL LYNCH, PIERCE, FENNER & SMITH, INC.  
022 B000006 13-5674085  
022 C000006 8121  
022 D000006 999  
022 A000007 PIPER JAFFRAY & CO.  
022 B000007 41-0953246  
022 C000007 2489  
022 D000007 5158  
022 A000008 FMSBONDS, INC.  
022 B000008 59-1842344  
022 C000008 4280  
022 D000008 3119  
022 A000009 J.P. MORGAN SECURITIES INC.  
022 B000009 13-3299429  
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022 A000010 GOLDMAN, SACHS & CO.  
022 B000010 13-5108880  
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072 R000000 35  
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078 000000 N  
 080 A000000 VIGILANT INSURANCE COMPANY  
 080 B000000 NATIONAL UNION FIRE INSURANCE COMPANY  
 080 C000000 85000

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087	A030000	APX	
088	A000000	N	
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088	C000000	N	
088	D000000	N	
SIGNATURE	NEAL J. ANDREWS		
TITLE	CFO		