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APEX MUNICIPAL FUND INC
Form N-CSRS
March 02, 2004

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM N-CSRS

CERTIFIED SHAREHOLDER REPORT OF REGISTERED MANAGEMENT
INVESTMENT COMPANIES

Investment Company Act file number 811-5729

Name of Fund: Apex Municipal Fund, Inc.

Fund Address: P.O. Box 9011
Princeton, NJ 08543-9011

Name and address of agent for service: Terry K. Glenn, President, Apex Municipal
Fund, Inc., 800 Scudders Mill Road, Plainsboro, NJ 08536. Mailing
address: P.O. Box 9011, Princeton, NJ 08543-9011

Registrant's telephone number, including area code: (609) 282-2800

Date of fiscal year end: 06/30/04

Date of reporting period: 07/01/03 - 12/31/03

Item 1 - Report to Shareholders

[LOGO] Merrill Lynch Investment Managers

www.mlim.ml.com

Apex Municipal
Fund, Inc.

Semi-Annual Report
December 31, 2003

[LOGO] Merrill Lynch Investment Managers

Apex Municipal Fund, Inc.

Quality Profile

The quality ratings of securities in the Fund as of December 31, 2003 were as follows:

S&P Rating/Moody's Rating	Percent of Total Investments
A/A	2.5%
BBB/Baa	19.6
BB/Ba	16.1
B/B	13.2

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CCC/Caa	2.9
NR (Not Rated)	45.5
Other+	0.2

+ Temporary investments in short-term variable rate municipal securities.

Officers and Directors

Terry K. Glenn, President and Director
James H. Bodurtha, Director
Joe Grills, Director
Herbert I. London, Director
Andre F. Perold, Director
Roberta Cooper Ramo, Director
Robert S. Salomon, Jr., Director
Stephen B. Swensrud, Director
Kenneth A. Jacob, Senior Vice President
John M. Loffredo, Senior Vice President
Theodore R. Jaeckel Jr., Vice President
Donald C. Burke, Vice President and Treasurer
Brian D. Stewart, Secretary

Custodian

The Bank of New York
100 Church Street
New York, NY 10286

Transfer Agent

The Bank of New York
101 Barclay Street
New York, NY 10286

NYSE Symbol

APX

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A Letter From the President

Dear Shareholder

In my 35 years in the asset management business, 2003 was among the more memorable. The year, which opened with unrelenting economic uncertainty and a dismal continuation of a three-year equity market slump, vigorously reversed course in the months that followed. However, amid the good economic news, fixed income investments, which had become the asset class of choice during the preceding three-year equity market decline, faced new challenges.

Throughout 2003, the Federal Reserve Board remained focused on averting deflation and ensuring a sustained economic recovery. This translated into an uninterrupted easing monetary policy and the lowest interest rates in decades. The Federal Funds rate, which opened the year at 1.25%, ended it at 1% -- the lowest level since 1958.

Municipal bond yields rose and fell during the year in reaction to geopolitical events, equity market performance, economic activity and employment figures. By

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the end of December, long-term municipal revenue bond yields -- which move opposite of price levels -- were slightly lower than they were one year earlier, at 5.04% as measured by the Bond Buyer Revenue Bond Index. With many state deficits at record levels, municipalities issued more than \$380 billion in new long-term tax-exempt bonds during 2003. The availability of bonds, together with attractive yield ratios relative to U.S. Treasury issues, made municipal bonds a popular fixed income investment alternative.

Throughout the year, our portfolio managers continued to work diligently to deliver on our commitment to provide superior performance within reasonable expectations for risk and return. This included striving to outperform our peers and the market indexes. With that said, remember that the advice and guidance of a skilled financial advisor often can mean the difference between successful and unsuccessful investing. A financial professional can help you choose those investments that will best serve you as you plan for your financial future.

In closing, I wish to share one final note regarding the look of our shareholder communications. Our portfolio manager commentaries have been trimmed and organized in such a way that you can get the information you need at a glance, in plain language. Today's markets can be confusing. We want to help you put it all in perspective. The report's new size also allows us certain mailing efficiencies. Any cost savings in production or postage are passed on to the Fund and, ultimately, to Fund shareholders.

We thank you for trusting Merrill Lynch Investment Managers with your investment assets, and we look forward to serving you in the New Year and beyond.

Sincerely,

/s/ Terry K. Glenn

Terry K. Glenn
President and Director

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

A Discussion With Your Fund's Portfolio Manager

The Fund was effectively able to maintain a competitive dividend yield during the period and provide an attractive total return exceeding that of its Lipper category average.

Describe the market environment relative to municipal bonds during the period.

A stronger U.S. economy led to higher yields for both municipal securities and long-term U.S. Treasury bonds during the past six months. Municipal bonds generally outperformed their taxable counterparts during the period, and continue to offer attractive investment potential for the months ahead.

During the third quarter of 2003, the economy grew 8.2%, the fastest quarterly growth in nearly 20 years and well above the 1.4% rate registered in the first quarter of 2003. The positive financial environment helped generate rising stock prices, with the Standard & Poor's 500 Index appreciating 15.14% during the past six months. The stock market's expansion put additional upward pressure on long-term interest rates. Accordingly, yields on long-term U.S. Treasury issues -- at 5.07% as of December 31, 2003 -- were approximately 50 basis points (.50%) higher than they were six months earlier.

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Like taxable bonds, tax-exempt bond yields generally rose over the six months as well. Long-term revenue bond yields, as measured by the Bond Buyer Revenue Bond Index, rose seven basis points during the past six months. Thirty-year bonds with a credit rating of Aaa -- the highest rating possible -- saw a yield increase of almost 20 basis points, according to Municipal Market Data. With tax-exempt money market rates at or below 1%, and low nominal municipal bond yields in general, many investors moved increasingly further out on the municipal yield curve to generate the desired level of tax-exempt income. This maturity extension helped support the strong demand for and performance of tax-exempt products in recent months.

An improvement in supply/demand dynamics also contributed to the municipal bond market's favorable performance and relative outperformance of the U.S. Treasury market in the past six months. As the period progressed and bond yields rose, the pace of new municipal bond issuance declined. For 2003 as a whole, for example, municipal issuance was 6.8% greater than in 2002. However, during the second half of 2003, municipal issuance was actually 5.5% below that of the same six months in 2002. The declining trend was especially pronounced during the final quarter of 2003, which saw \$95 billion in new issuance, a 10% decrease compared to the fourth quarter of 2002. This decline in supply has helped strengthen the municipal market's positive technical position and enhanced recent performance. New-issue supply is expected to remain manageable in early 2004 and should help support the tax-exempt market's current position as an attractive fixed income investment alternative.

How did the Fund perform during the period in light of the existing market conditions?

For the six-month period ended December 31, 2003, Apex Municipal Fund, Inc. had net annualized yields of 6.11% and 6.63%, based on a period-end per share net asset value of \$9.15 and a per share market price of \$8.44, respectively, and \$.282 per share income dividends. Over the same period, the Fund's total investment return was +5.32%, based on a change in per share net asset value from \$8.99 to \$9.15, and assuming reinvestment of \$.282 per share ordinary income dividends and \$.003 per share capital gains distributions.

For a description of the Fund's total investment return based on a change in the per share market value of the Fund (as measured by the trading price of the Fund's shares on the New York Stock Exchange), and assuming reinvestment of dividends, please refer to the Financial Highlights section included in this report. As a closed-end fund, the Fund's shares may trade in the secondary market at a premium or discount to the Fund's net asset value. As a result, total investment returns based on changes in the market value of the Fund can vary significantly from total investment return based on changes in the Fund's net asset value.

The Fund's performance, based on net asset value, significantly exceeded that of its comparable Lipper category of High Yield Municipal Debt Funds, which had an average return of +4.06% for the six-month period. (Funds in this Lipper category invest at least 50% of their assets in lower-rated municipal debt issues.) We attribute the outperformance to the Fund's competitive distribution yield as well as an overweight position in airline bonds. Valuations in the airline sector rebounded strongly from the distressed levels reached during the industry-wide decline that followed the September 2001 terrorist attacks.

What changes were made to the portfolio during the period?

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Credit spreads contracted significantly in recent months, reflecting investors' increased appetite for higher yields and willingness to assume the associated risk. This spread contraction provided us with an opportunity to restructure portions of the portfolio. Several of the Fund's holdings that were purchased at a discount appreciated strongly during the period. Where appropriate, we sold these holdings and reinvested the proceeds in higher-yielding securities in sectors that we felt offered greater value.

For example, typical new investments have been in the tax-backed and long-term care sectors. In both cases, we see the potential for credit-quality improvement, which we believe could translate into relative price appreciation. Through this type of thoughtful investment research, we are seeking to generate excess return for our shareholders in the form of a competitive distribution yield and the potential for modest growth of capital.

How would you characterize the portfolio's position at the close of the period?

Given our expectation for a continued contraction in credit spreads -- suggesting rising prices and falling yields for high yield bonds -- we ended the period with an overweight bias toward speculative-grade and non-rated securities. We also maintained a significant weighting in bonds backed by revenues from airlines and other economically sensitive industrial companies. This positioning reflects our confidence in the economic recovery.

Having said that, we recognize that the airline industry still faces significant challenges and is subject to event risk -- that is, the possibility that an unexpected event could suddenly derail the industry's recent progress. For that reason, further gains in the sector would be viewed as an opportunity to reduce the portfolio's exposure and reinvest the proceeds in areas we believe could offer better value ahead.

Theodore R. Jaeckel Jr.
Vice President and Portfolio Manager

January 8, 2004

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments

(in Thousands)

State	S&P Ratings	Moody's Ratings	Face Amount	Municipal Bonds
Alabama--0.6%	B	NR*	\$ 1,000	Brewton, Alabama, IDB, PCR, Refunding (Co America--Jefferson Smurfit Corp. Project)
Alaska--1.1%	NR*	NR*	2,000	Alaska Industrial Development and Export (Williams Lynxs Alaska Cargoport), AMT, 8
Arizona--2.9%				Maricopa County, Arizona, IDA, M/F Housin King Apartments Project):
	NR*	Bal	510	Series A, 6.75% due 5/01/2031
	NR*	NR*	1,500	Sub-Series C, 9.50% due 11/01/2031
	NR*	Caa3	4,000	Phoenix, Arizona, IDA, Airport Facility R (America West Airlines Inc. Project), AMT

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	NR*	Baa2	500	Yavapai County, Arizona, IDA, Hospital Fa (Yavapai Regional Medical Center), Series
California--1.8%	BBB	Baa1	1,300	California State, Various Purpose, GO, 5.
	BBB-	Baa2	1,860	Golden State Tobacco Securitization Corpo Tobacco Settlement Revenue Bonds, Series
Colorado--6.9%	NR*	Baa2	3,000	Denver, Colorado, Urban Renewal Authority Bonds (Pavilions), AMT, 7.75% due 9/01/20
	NR*	NR*	2,800	Elk Valley, Colorado, Public Improvement Improvement Fee), Series A, 7.30% due 9/0
	NR*	NR*	1,640	Lincoln Park, Colorado, Metropolitan Dist 7.75% due 12/01/2026
	A1	VMIG1+	200	Moffat County, Colorado, PCR, Refunding (VRDN, 1.22% due 5/01/2013 (a) (c)
	NR*	NR*	1,235	North Range, Colorado, Metropolitan Distr 7.25% due 12/15/2031
	BB+	Ba1	1,145	Northwest Parkway, Colorado, Public Highw Bonds, First Tier, Sub-Series D, 7.125% d
	NR*	NR*	2,000	Plaza Metropolitan District No. 1, Colora Revenue Bonds (Public Improvement Fees),
Connecticut--0.7%	NR*	B1	1,255	New Haven, Connecticut, Facility Revenue Corporation Project), 9.25% due 5/01/2017
Florida--7.6%	NR*	NR*	885	Arbor Greene Community Development Distri Assessment Revenue Bonds, 7.60% due 5/01/
	NR*	NR*	685	Bonnet Creek Resort, Florida, Community D Special Assessment Revenue Bonds, 7.50% d
	NR*	NR*	800	Capital Projects Finance Authority, Flori Retirement Revenue Bonds (Glenridge on Pa 8% due 6/01/2032
	NR*	NR*	2,500	Hillsborough County, Florida, IDA, Exempt Bonds (National Gypsum), AMT, Series A, 7
	NR*	NR*	910	Lakewood Ranch, Florida, Community Develo Number 5, Special Assessment Revenue Refu 6.70% due 5/01/2031
	NR*	NR*	1,650	Orlando, Florida, Urban Community Develop Improvement Special Assessment Bonds, Ser due 5/01/2033
	NR*	NR*	3,480	Parkway Center, Florida, Community Develo Assessment Refunding Bonds, Series B, 8%
	NR*	NR*	2,880	Tampa Palms, Florida, Open Space and Tran Development District Revenue Bonds, Capit (Richmond Place Project), 7.50% due 5/01/

Portfolio Abbreviations

To simplify the listings of Apex Municipal Fund, Inc.'s portfolio holdings in the Schedule of Investments, we have abbreviated the names of many of the securities according to the list at right.

AMT	Alternative Minimum Tax (subject to)
EDA	Economic Development Authority
GO	General Obligation Bonds
IDA	Industrial Development Authority
IDB	Industrial Development Board
IDR	Industrial Development Revenue Bonds
M/F	Multi-Family
PCR	Pollution Control Revenue Bonds

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VRDN Variable Rate Demand Notes

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Schedule of Investments (continued) (in Thousands)

State	S&P Ratings	Moody's Ratings	Face Amount	Municipal Bonds
Georgia--1.6%	NR*	NR*	\$ 2,000	Atlanta, Georgia, Tax Allocation Revenue Station Project), 7.90% due 12/01/2024
	NR*	NR*	830	Savannah, Georgia, EDA, Revenue Bonds (Mortgage First Mortgage, Series A, 7.40% due 1/01/2024)
Idaho--0.8%	NR*	NR*	1,470	Idaho Health Facilities Authority Revenue Bonds (Valley Vista Care Corporation), Series A
Illinois--3.3%	CCC	Caa2	3,000	Chicago, Illinois, O'Hare International Airport Authority Facility Revenue Refunding Bonds (America's Airport Authority Project), 8.20% due 12/01/2024
	NR*	NR*	400	Chicago, Illinois, Special Assessment Bonds (Special Assessment Bonds), 6.75% due 12/01/2032
	NR*	NR*	3,190	Illinois Development Finance Authority Revenue Bonds (Health Care Centers Facilities Acquisition), due 12/01/2016
Indiana--2.0%	NR*	NR*	2,600	Indiana State Educational Facilities Authority Revenue Refunding Bonds (Saint Joseph's College Project), due 10/01/2029
	NR*	NR*	1,820	Indianapolis, Indiana, M/F Revenue Bonds (Mortgage Project), Series B, 7.50% due 10/01/2029
Iowa--2.6%	NR*	NR*	3,965	Iowa Finance Authority, Health Care Facilities Revenue Refunding Bonds (Care Initiatives Project)
Louisiana--3.6%	B	NR*	825	Hodge, Louisiana, Utility Revenue Refunding Bonds (Container Corporation), AMT, 7.45% due 3/01/2013
	BB-	NR*	5,500	Port New Orleans, Louisiana, IDR, Refunding Bonds (Port New Orleans Company Project), 7.50% due 7/01/2013
Maine--0.5%	BB+	Bal	840	Maine Finance Authority, Solid Waste Recycling Revenue Bonds (Great Northern Paper Project), 7.75% due 10/01/2022
Maryland--2.0%	NR*	NR*	1,875	Anne Arundel County, Maryland, Special Obligation Revenue Bonds (Arundel Mills Project), 7.10% due 7/01/2019
	NR*	NR*	1,500	Maryland State Energy Financing Administration Obligation Revenue Bonds (Cogeneration--A), 7.40% due 9/01/2019
Massachusetts--4.6%	BBB	NR*	825	Massachusetts State Development Finance Authority Recovery Revenue Bonds (Ogden Haverhill Authority Series A, 6.70% due 12/01/2014)
	BB+	NR*	1,245	Massachusetts State Development Finance Authority Refunding Bonds (Eastern Nazarine College Project), 5.625% due 4/01/2019
	BB+	NR*	1,220	Massachusetts State Development Finance Authority Refunding Bonds (Eastern Nazarine College Project), 5.625% due 4/01/2029

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BBB-	NR*	850	Massachusetts State Health and Educational Revenue Bonds (Jordan Hospital), Series E
NR*	Ba2	3,000	Massachusetts State Health and Educational Revenue Refunding Bonds (Bay Cove Human Services Series A, 5.90% due 4/01/2028)
NR*	NR*	1,500	Massachusetts State Industrial Finance Authority Sewer Facility (Resource Control Composting) due 6/01/2010
BBB	NR*	500	Massachusetts State Industrial Financial Recovery Revenue Refunding Bonds (Ogden Hospital Series A, 5.60% due 12/01/2019)

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments (continued)

(in Thousands)

State	S&P Ratings	Moody's Ratings	Face Amount	Municipal Bonds
Michigan--1.0%	BBB-	Baa3	\$ 1,000	Flint, Michigan, Hospital Building Authority Bonds (Hurley Medical Center), 6% due 7/01/2018
	B	Ba1	1,000	Michigan State Hospital Finance Authority Bonds (Detroit Medical Center Obligation) due 8/15/2018
Minnesota--0.7%	NR*	NR*	1,230	Saint Paul, Minnesota, Port Authority, Hotel Refunding Bonds (Radisson Kellogg Project) due 8/01/2029
Missouri--0.7%	NR*	NR*	1,200	Fenton, Missouri, Tax Increment Revenue Refunding Bonds (Gravois Bluffs), 7% due 10/01/2014
Nevada--0.2%	NR*	NR*	430	Clark County, Nevada, Improvement District Assessment, 6.375% due 8/01/2023
New Jersey--12.5%				Camden County, New Jersey, Improvement Authority Bonds (Holt Hauling & Warehousing), AMT, 9.625% due 1/01/2011
	NR*	NR*	2,000	
	NR*	NR*	4,500	9.875% due 1/01/2021
	CCC	B2	6,000	Camden County, New Jersey, Pollution Control Authority, Solid Waste Resource Recovery Bonds, AMT, Series A, 7.50% due 12/01/2014
	NR*	Ba3	1,500	New Jersey EDA, IDR, Refunding (Newark Airport) 7% due 10/01/2014
	NR*	NR*	1,000	New Jersey EDA, Retirement Community Revenue Bonds (Cedar Crest Village Inc. Facility)
	NR*	NR*	3,700	(Seabrook Village Inc.), 8.125% due 10/01/2014
				New Jersey EDA, Special Facility Revenue Bonds (Airlines Inc. Project), AMT:
	B	Caa2	3,050	6.625% due 9/15/2012
	B	Caa2	2,035	6.25% due 9/15/2029
	BB+	NR*	1,515	New Jersey Health Care Facilities Financing Bonds (Pascack Valley Hospital Association)

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	BBB	Baa2	3,025	Tobacco Settlement Financing Corporation Bonds, 6.75% due 6/01/2039
New Mexico--3.0%	B+	Ba3	5,000	Farmington, New Mexico, PCR, Refunding (T Power Co.--San Juan Project), Series A, 6
New York--3.0%	NR*	NR*	350	New York City, New York, City IDA, Civic Series C, 6.80% due 6/01/2028
	BB+	Ba2	1,730	New York City, New York, City IDA, Specia Bonds (British Airways PLC Project), AMT, Utica, New York, GO, Public Improvement: 9.25% due 8/15/2004
	BBB	Baa3	700	9.25% due 8/15/2005
	BBB	Baa3	700	9.25% due 8/15/2006
	BBB	Baa3	635	
	NR*	NR*	1,180	Westchester County, New York, IDA, Contin Mortgage Revenue Bonds (Kendal on Hudso 6.50% due 1/01/2034
North Carolina--0.6%	NR*	NR*	1,000	North Carolina Medical Care Commission, R First Mortgage Revenue Bonds (Givens Esta 6.50% due 7/01/2032

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Schedule of Investments (continued) (in Thousands)

State	S&P Ratings	Moody's Ratings	Face Amount	Municipal Bonds
Ohio--1.5%	B-	Caa2	\$ 3,135	Cleveland, Ohio, Airport Special Revenue (Continental Airlines Inc. Project), AMT, Montgomery County, Ohio, Revenue Refundin Hospital), VRDN, Series A, 1.22% due 11/1
	NR*	VMIG-1+	200	
Oklahoma--0.2%	B-	Caa2	420	Tulsa, Oklahoma, Municipal Airport Trust (AMR Corporation), AMT, Series A, 5.80% d
Oregon--0.7%	NR*	NR*	1,310	Western Generation Agency, Oregon, Cogene Bonds (Wauna Cogeneration Project), AMT, 1/01/2016
Pennsylvania--5.5%	NR*	NR*	1,750	Chester County, Pennsylvania, Health and Authority, Senior Living Revenue Refundin Inc. Project), 7.625% due 7/01/2034 Montgomery County, Pennsylvania, Higher E Authority Revenue Bonds (Faulkeways at Gw 6.75% due 11/15/2024 6.75% due 11/15/2030
	BBB	NR*	900	
	BBB	NR*	925	
	NR*	Ba1	1,600	Philadelphia, Pennsylvania, Authority for (Air Cargo), AMT, Series A, 7.50% d
	NR*	NR*	4,460	Commercial Development, 7.75% due 1
Tennessee--1.0%	NR*	NR*	1,800	Shelby County, Tennessee, Health, Educati Facilities Board Revenue Bonds (Germantow 7.25% due 12/01/2034

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Texas--12.6%	BBB-	Baa3	1,000	Austin, Texas, Convention Center Revenue Enterprises Inc.), First Tier, Series A, Brazos River Authority, Texas, PCR, Refun
	BBB	Baa2	2,530	(Texas Utility Company), Series A,
	BBB	Baa2	2,870	(Utilities Electric Company), Serie
	BBB-	Ba1	1,220	Brazos River Authority, Texas, Revenue Re
	A-	A3	2,500	Energy Inc. Project), Series B, 7.75% due
				Brazos River, Texas, Harbor Navigation Di
	NR*	NR*	1,660	Environmental Revenue Refunding Bonds (Do
	BBB	Baa2	1,750	Project), AMT, Series A-7, 6.625% due 5/1
				Grand Prairie, Texas, Housing Finance Cor
	A-	A3	1,700	(Independent Senior Living Center), 7.75%
	BBB-	NR*	945	Gulf Coast, Texas, Waste Disposal Authori
				Bonds (International Paper Company), AMT,
	BBB-	Ba1	2,310	due 8/01/2024
	BB	Ba3	1,330	Lower Colorado River Authority, Texas, PC
	NR*	Baa3	1,740	Semiconductor), AMT, 6.375% due 4/01/2027
				Lufkin, Texas, Health Facilities Developm
				System Revenue Bonds (Memorial Health Sys
				5.70% due 2/15/2028
				Matagorda County, Texas, Navigation Distr
				Refunding Bonds (Reliant Energy Inc.), Se
				Port Corpus Christi, Texas, Individual De
				Environmental Facilities Revenue Bonds (C
				Corporation Project), AMT, 8.25% due 11/0
				Texas State Student Housing Corporation,
				Bonds (MidWestern State University Projec

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

Schedule of Investments (concluded)

(in Thousands)

State	S&P Ratings	Moody's Ratings	Face Amount	Municipal Bonds
Utah--1.3%	NR*	NR*	\$ 2,240	Carbon County, Utah, Solid Waste Disposal Bonds (Laidlaw Environmental), AMT, Serie
Virgin Islands--1.2%	BBB-	Baa3	2,100	Virgin Islands Government Refinery Facili Bonds (Hovensa Coker Project), AMT, 6.50%
Virginia--6.5%	NR*	NR*	2,495	Dulles Town Center, Virginia, Community D Special Assessment Tax (Dulles Town Cente due 3/01/2026
	NR*	NR*	3,000	Pittsylvania County, Virginia, IDA Revenue Exempt Facility, AMT, Series A, 7.50% due
				Pocahontas Parkway Association, Virginia, Bonds:
	NR*	Ba1	6,200	First Tier, Sub-Series C, 6.25%** d
	NR*	Ba1	6,200	First Tier, Sub-Series C, 6.25%** d
	BB	NR*	32,600	Senior Series B, 5.875%** due 8/15/

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Washington--1.4%	NR*	NR*	2,600	Port Seattle, Washington, Special Facilities (Northwest Airlines Project), AMT, 7.25%
West Virginia--0.4%	B-	B2	875	Princeton, West Virginia, Hospital Revenue Bonds (Community Hospital Association Inc. Project), due 5/01/2013
Wisconsin--0.7%	NR*	NR*	1,320	Wisconsin State Health and Educational Facilities Revenue Bonds (New Castle Place Project), due 12/01/2031
Wyoming--1.0%	BB+	Ba3	1,800	Sweetwater County, Wyoming, Solid Waste Disposal (FMC Corporation Project), AMT, Series A, due 12/01/2031
				Total Municipal Bonds (Cost--\$184,640)--98.3%
				Total Investments (Cost--\$184,640)--98.3%
				Other Assets Less Liabilities--1.7%
				Net Assets--100.0%

* Not Rated.

** Represents a zero coupon or step bond; the interest rate shown reflects the effective yield at the time of purchase by the Fund.

+ Highest short-term rating by Moody's Investors Service, Inc.

(a) The interest rate is subject to change periodically based upon prevailing market rates. The interest rate shown is the rate in effect at December 31, 2003.

(b) Non-income producing security.

(c) AMBAC Insured.

See Notes to Financial Statements.

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Statement of Assets, Liabilities and Capital

As of December 31, 2003

Assets

Investments, at value (identified cost--\$184,640,212)	.....
Cash	.....
Receivables:	
Interest
Securities sold
Prepaid expenses
Total assets

Liabilities

Payables:

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Dividends and Distributions to shareholders
 Investment adviser
 Other affiliates

Accrued expenses

Total liabilities

=====
 Net Assets

Net Assets

=====
 Capital

Common Stock, \$.10 par value, 150,000,000 shares authorized;
 19,596,732 shares issued and outstanding
 Paid-in capital in excess of par
 Undistributed investment income--net
 Accumulated realized capital losses on investments--net
 Unrealized depreciation on investments--net

Total accumulated losses--net

Total capital--Equivalent to \$9.15 net asset value per share of
 Common Stock (market price--\$8.44)

See Notes to Financial Statements.

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

Statement of Operations

For the Six Months Ended December 31, 2003

=====
 Investment Income

Interest

=====
 Expenses

Investment advisory fees
 Accounting services
 Transfer agent fees
 Printing and shareholder reports
 Listing fees
 Professional fees
 Pricing fees
 Directors' fees and expenses
 Custodian fees
 Other

Total expenses

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Investment income--net

=====
Realized & Unrealized Gain on Investments--Net

Realized gain on investments--net
Change in unrealized depreciation on investments--net

Total realized and unrealized gain on investments--net

Net Increase in Net Assets Resulting from Operations

See Notes to Financial Statements.

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Statements of Changes in Net Assets

Increase (Decrease) in Net Assets:

=====
Operations

Investment income--net

Realized gain (loss) on investments--net

Change in unrealized depreciation on investments--net

Net increase in net assets resulting from operations

=====
Dividends to Shareholders

Investment income--net

Net decrease in net assets resulting from dividends to shareholders ...

=====
Net Assets

Total increase (decrease) in net assets

Beginning of period

End of period*

* Undistributed investment income--net

See Notes to Financial Statements.

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[LOGO] Merrill Lynch Investment Managers

Financial Highlights

The following per share data and ratios have been derived from information provided in the financial statements.

	For the Six Months Ended December 31, 2003	For December 31, 2002
Increase (Decrease) in Net Asset Value:		
=====		
Per Share Operating Performance		

Net asset value, beginning of period	\$ 8.99	\$ 9.24
Investment income--net .....	.30++	.58++
Realized and unrealized gain (loss) on investments--net .....	.14	(.27)
Total from investment operations .....	.44	.31
Less dividends from investment income--net	(.28)	(.56)
Net asset value, end of period	\$ 9.15	\$ 8.99
Market price per share, end of period	\$ 8.44	\$ 8.48
=====		
Total Investment Return*		

Based on market price per share	2.99%+	8.18%
Based on net asset value per share	5.32%+	4.13%
=====		
Ratios to Average Net Assets		

Expenses, net of reimbursement .....	.81%**	.90%
Expenses .....	.81%**	.90%
Investment income--net	6.58%**	6.56%
=====		
Supplemental Data		

Net assets, end of period (in thousands)	\$179,286	\$176,116
Portfolio turnover	10%	24%
=====		

* Total investment returns based on market value, which can be significantly greater or lesser than the net asset value, may result in substantially different returns. Total investment returns exclude the effects of sales charges.

** Annualized.

+ Aggregate total investment return.

++ Based on average shares outstanding.

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See Notes to Financial Statements.

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APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

Notes to Financial Statements

1. Significant Accounting Policies:

Apex Municipal Fund, Inc. (the "Fund") is registered under the Investment Company Act of 1940, as amended, as a non-diversified, closed-end management investment company. The Fund's financial statements are prepared in conformity with accounting principles generally accepted in the United States of America, which may require the use of management accruals and estimates. These unaudited financial statements reflect all adjustments, which are, in the opinion of management, necessary to a fair statement of the result for the interim period presented. All such adjustments are of a normal, recurring nature. The Fund determines and makes available for publication the net asset value of its Common Stock on a weekly basis. The Fund's Common Stock is listed on the New York Stock Exchange under the symbol APX. The following is a summary of significant accounting policies followed by the Fund.

(a) Valuation of investments -- Municipal bonds are traded primarily in the over-the-counter markets and are valued at the last available bid price in the over-the-counter market or on the basis of yield equivalents as obtained by the Fund's pricing service from one or more dealers that make markets in the securities. Financial futures contracts and options thereon, which are traded on exchanges, are valued at their closing prices as of the close of such exchanges. Options written or purchased are valued at the last sale price in the case of exchange-traded options. In the case of options traded in the over-the-counter market, valuation is the last asked price (options written) or the last bid price (options purchased). Swap agreements are valued by quoted fair values received daily by the Fund from the counterparty. Short-term investments with a remaining maturity of sixty days or less are valued at amortized cost, which approximates market value. Securities and assets for which market quotations are not readily available are valued at fair value as determined in good faith by or under the direction of the Board of Directors of the Fund, including valuations furnished by a pricing service retained by the Fund, which may utilize a matrix system for valuations. The procedures of the pricing service and its valuations are reviewed by the officers of the Fund under the general supervision of the Board of Directors.

(b) Derivative financial instruments -- The Fund may engage in various portfolio investment strategies both to increase the return of the Fund and to hedge, or protect, its exposure to interest rate movements and movements in the securities markets. Losses may arise due to changes in the value of the contract or if the counterparty does not perform under the contract.

o Financial futures contracts -- The Fund may purchase or sell financial futures contracts and options on such futures contracts. Futures contracts are contracts for delayed delivery of securities at a specific future date and at a specific price or yield. Upon entering into a contract, the Fund deposits and maintains as collateral such initial margin as required by the exchange on which the transaction is effected. Pursuant to the contract, the Fund agrees to receive from or pay to the broker an amount of cash equal to the daily fluctuation in value of the contract. Such receipts or payments are known as variation margin and are recorded by the Fund as unrealized gains or losses. When the contract is closed, the Fund records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed.

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- o Options -- The Fund may write covered call options and purchase put options. When the Fund writes an option, an amount equal to the premium received by the Fund is reflected as an asset and an equivalent liability. The amount of the liability is subsequently marked to market to reflect the current market value of the option written. When a security is purchased or sold through an exercise of an option, the related premium paid (or received) is added to (or deducted from) the basis of the security acquired or deducted from (or added to) the proceeds of the security sold. When an option expires (or the Fund enters into a closing transaction), the Fund realizes a gain or loss on the option to the extent of the premiums received or paid (or gain or loss to the extent the cost of the closing transaction exceeds the premium paid or received).

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

Notes to Financial Statements (continued)

Written and purchased options are non-income producing investments.

- o Forward interest rate swaps -- The Fund may enter into forward interest rate swaps. In a forward interest rate swap, the Fund and the counterparty agree to make periodic payments on a specified notional contract amount, commencing on a specified future effective date, unless terminated earlier. When the agreement is closed, the Fund records a realized gain or loss in an amount equal to the value of the agreement.

(c) Income taxes -- It is the Fund's policy to comply with the requirements of the Internal Revenue Code applicable to regulated investment companies and to distribute substantially all of its taxable income to its shareholders. Therefore, no Federal income tax provision is required.

(d) Security transactions and investment income -- Security transactions are recorded on the dates the transactions are entered into (the trade dates). Realized gains and losses on security transactions are determined on the identified cost basis. Interest income is recognized on the accrual basis. The Fund amortizes all premiums and discounts on debt securities.

(e) Dividends and distributions -- Dividends from net investment income are declared daily and paid monthly. Distributions of capital gains are recorded on the ex-dividend dates.

2. Investment Advisory Agreement and Transactions with Affiliates:

The Fund has entered into an Investment Advisory Agreement with Fund Asset Management, L.P. ("FAM"). The general partner of FAM is Princeton Services, Inc. ("PSI"), an indirect, wholly-owned subsidiary of Merrill Lynch & Co., Inc. ("ML & Co."), which is the limited partner.

FAM is responsible for the management of the Fund's portfolio and provides the necessary personnel, facilities, equipment and certain other services necessary to the operations of the Fund. For such services, the Fund pays a monthly fee at an annual rate of .65% of the Fund's average weekly net assets.

For the six months ended December 31, 2003, the Fund reimbursed FAM \$2,180 for certain accounting services.

Certain officers and/or directors of the Fund are officers and/or directors of

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FAM, PSI and/or ML & Co.

3. Investments:

Purchases and sales of investments, excluding short-term securities, for the six months ended December 31, 2003 were \$19,051,230 and \$18,080,265, respectively.

Net realized gains for the six months ended December 31, 2003 and net unrealized losses as of December 31, 2003 were as follows:

	Realized Gains	Unrealized Losses
Long-term investments	\$ 773,061	\$(8,330,468)
Total	\$ 773,061	\$(8,330,468)

For the six months ended December 31, 2003, net unrealized depreciation for Federal income tax purposes aggregated \$8,125,272, of which \$7,164,382 related to appreciated securities and \$15,289,654 related to depreciated securities. The aggregate cost of investments at December 31, 2003 for Federal income tax purposes was \$184,435,016.

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Notes to Financial Statements (concluded)

4. Common Stock Transactions:

At December 31, 2003, the Fund had one class of shares of Common Stock, par value \$.10 per share, of which 150,000,000 shares were authorized. Shares issued and outstanding during the six months ended December 31, 2003 and the year ended June 30, 2003 remained constant.

5. Subsequent Event:

On January 6, 2004, the Fund's Board of Directors declared a tax-exempt income dividend to Common Stock shareholders in the amount of \$.048000 per share, payable on January 29, 2004 to shareholders of record as of January 16, 2004.

6. Capital Loss Carryforward:

On June 30, 2003 the Fund had a net capital loss carryforward of approximately \$21,862,751, of which \$7,056,648 expires in 2004, \$1,311,769 expires in 2005, \$938,156 expires in 2006, \$2,975,000 expires in 2008, \$5,341,699 expires in 2009, \$2,075,987 expires in 2010 and \$2,163,492 expires in 2011. This amount will be available to offset like amounts of any future taxable gains.

APEX MUNICIPAL FUND, INC. DECEMBER 31, 2003 17

[LOGO] Merrill Lynch Investment Managers

About Inverse Floaters

As a part of its investment strategy, the Fund may invest in certain securities whose potential income return is inversely related to changes in a floating

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interest rate ("inverse floaters"). In general, income on inverse floaters will decrease when short-term interest rates increase and increase when short-term interest rates decrease. Investments in inverse floaters may be characterized as derivative securities and may subject the Fund to the risks of reduced or eliminated interest payments and losses of invested principal. In addition, inverse floaters have the effect of providing investment leverage and, as a result, the market value of such securities will generally be more volatile than that of fixed rate, tax-exempt securities. To the extent the Fund invests in inverse securities, the market value of the Fund's portfolio and the net asset value of the Fund's shares may also be more volatile than if the Fund did not invest in these securities.

Dividend Policy

The Fund's dividend policy is to distribute all or a portion of its net investment income to its shareholders on a monthly basis. In order to provide shareholders with a more stable level of dividend distributions, the Fund may at times pay out less than the entire amount of net investment income earned in any particular month and may at times in any particular month pay out such accumulated but undistributed income in addition to net investment income earned in that month. As a result, the dividends paid by the Fund for any particular month may be more or less than the amount of net investment income earned by the Fund during such month. The Fund's current accumulated but undistributed net investment income, if any, is disclosed in the Statement of Assets, Liabilities and Capital, which comprises part of the financial information included in this report.

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APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

Electronic Delivery

The Fund offers electronic delivery of communications to its shareholders. In order to receive this service, you must register your account and provide us with e-mail information. To sign up for this service, simply access this website <http://www.icsdelivery.com/live> and follow the instructions. When you visit this site, you will obtain a personal identification number (PIN). You will need this PIN should you wish to update your e-mail address, choose to discontinue this service and/or make any other changes to the service. This service is not available for certain retirement accounts at this time.

APEX MUNICIPAL FUND, INC.

DECEMBER 31, 2003

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[LOGO] Merrill Lynch Investment Managers

www.mlim.ml.com

Apex Municipal Fund, Inc. seeks to provide shareholders with high current income exempt from Federal income taxes by investing primarily in a portfolio of medium-to-lower grade or unrated municipal obligations, the interest on which is exempt from Federal income taxes in the opinion of bond counsel to the issuer.

This report, including the financial information herein, is transmitted to shareholders of Apex Municipal Fund, Inc. for their information. It is not a prospectus. Past performance results shown in this report should not be considered a representation of future performance. Statements and other information herein are as dated and are subject to change.

Apex Municipal Fund, Inc.
Box 9011
Princeton, NJ

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- Item 2 - Code of Ethics - Not Applicable to this semi-annual report
- Item 3 - Audit Committee Financial Expert - Not Applicable to this semi-annual report
- Item 4 - Principal Accountant Fees and Services - Not Applicable to this semi-annual report
- Item 5 - Audit Committee of Listed Registrants - Not Applicable to this semi-annual report
- Item 6 - Reserved
- Item 7 - Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies -

Proxy Voting Policies and Procedures

Each Fund's Board of Directors/Trustees has delegated to Merrill Lynch Investment Managers, L.P. and/or Fund Asset Management, L.P. (the "Investment Adviser") authority to vote all proxies relating to the Fund's portfolio securities. The Investment Adviser has adopted policies and procedures ("Proxy Voting Procedures") with respect to the voting of proxies related to the portfolio securities held in the account of one or more of its clients, including a Fund. Pursuant to these Proxy Voting Procedures, the Investment Adviser's primary objective when voting proxies is to make proxy voting decisions solely in the best interests of each Fund and its shareholders, and to act in a manner that the Investment Adviser believes is most likely to enhance the economic value of the securities held by the Fund. The Proxy Voting Procedures are designed to ensure that the Investment Adviser considers the interests of its clients, including the Funds, and not the interests of the Investment Adviser, when voting proxies and that real (or perceived) material conflicts that may arise between the Investment Adviser's interest and those of the Investment Adviser's clients are properly addressed and resolved.

In order to implement the Proxy Voting Procedures, the Investment Adviser has formed a Proxy Voting Committee (the "Committee"). The Committee is comprised of the Investment Adviser's Chief Investment Officer (the "CIO"), one or more other senior investment professionals appointed by the CIO, portfolio managers and investment analysts appointed by the CIO and any other personnel the CIO deems appropriate. The Committee will also include two non-voting representatives from the Investment Adviser's Legal department appointed by the Investment Adviser's General Counsel. The Committee's membership shall be limited to full-time employees of the Investment Adviser. No person with any investment banking, trading, retail brokerage or research responsibilities for the Investment Adviser's affiliates may serve as a member of the Committee or participate in its decision making (except to the extent such person is asked by the Committee to present information to the Committee, on the same basis as other interested knowledgeable parties not affiliated with the Investment Adviser might be asked to do so). The Committee determines how to vote the proxies of all clients, including a Fund, that have delegated proxy voting authority to the Investment Adviser and seeks to ensure that all votes

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are consistent with the best interests of those clients and are free from unwarranted and inappropriate influences. The Committee establishes general proxy voting policies for the Investment Adviser and is responsible for determining how those policies are applied to specific proxy votes, in light of each issuer's unique structure, management, strategic options and, in certain circumstances, probable economic and other anticipated consequences of alternate actions. In so doing, the Committee may determine to vote a particular proxy in a manner contrary to its generally stated policies. In addition, the Committee will be responsible for ensuring that all reporting and recordkeeping requirements related to proxy voting are fulfilled.

The Committee may determine that the subject matter of a recurring proxy issue is not suitable for general voting policies and requires a case-by-case determination. In such cases, the Committee may elect not to adopt a specific voting policy applicable to that issue. The Investment Adviser believes that certain proxy voting issues require investment analysis - such as approval of mergers and other significant corporate transactions - akin to investment decisions, and are, therefore, not suitable for general guidelines. The Committee may elect to adopt a common position for the Investment Adviser on certain proxy votes that are akin to investment decisions, or determine to permit the portfolio manager to make individual decisions on how best to maximize economic value for a Fund (similar to normal buy/sell investment decisions made by such portfolio managers). While it is expected that the Investment Adviser will generally seek to vote proxies over which the Investment Adviser exercises voting authority in a uniform manner for all the Investment Adviser's clients, the Committee, in conjunction with a Fund's portfolio manager, may determine that the Fund's specific circumstances require that its proxies be voted differently.

To assist the Investment Adviser in voting proxies, the Committee has retained Institutional Shareholder Services ("ISS"). ISS is an independent adviser that specializes in providing a variety of fiduciary-level proxy-related services to institutional investment managers, plan sponsors, custodians, consultants, and other institutional investors. The services provided to the Investment Adviser by ISS include in-depth research, voting recommendations (although the Investment Adviser is not obligated to follow such recommendations), vote execution, and recordkeeping. ISS will also assist the Fund in fulfilling its reporting and recordkeeping obligations under the Investment Company Act.

The Investment Adviser's Proxy Voting Procedures also address special circumstances that can arise in connection with proxy voting. For instance, under the Proxy Voting Procedures, the Investment Adviser generally will not seek to vote proxies related to portfolio securities that are on loan, although it may do so under certain circumstances. In addition, the Investment Adviser will vote proxies related to securities of foreign issuers only on a best efforts basis and may elect not to vote at all in certain countries where the Committee determines that the costs associated with voting generally outweigh the benefits. The Committee may at any time override these general policies if it determines that such action is in the best interests of a Fund.

From time to time, the Investment Adviser may be required to vote proxies in respect of an issuer where an affiliate of the Investment Adviser (each, an "Affiliate"), or a money management or other client of the Investment Adviser (each, a "Client") is involved. The Proxy Voting Procedures and the Investment Adviser's adherence to those procedures are designed to address such conflicts

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of interest. The Committee intends to strictly adhere to the Proxy Voting Procedures in all proxy matters, including matters involving Affiliates and Clients. If, however, an issue representing a non-routine matter that is material to an Affiliate or a widely known Client is involved such that the Committee does not reasonably believe it is able to follow its guidelines (or if the particular proxy matter is not addressed by the guidelines) and vote impartially, the Committee may, in its discretion for the purposes of ensuring that an independent determination is reached, retain an independent fiduciary to advise the Committee on how to vote or to cast votes on behalf of the Investment Adviser's clients.

In the event that the Committee determines not to retain an independent fiduciary, or it does not follow the advice of such an independent fiduciary, the powers of the Committee shall pass to a subcommittee, appointed by the CIO (with advice from the Secretary of the Committee), consisting solely of Committee members selected by the CIO. The CIO shall appoint to the subcommittee, where appropriate, only persons whose job responsibilities do not include contact with the Client and whose job evaluations would not be affected by the Investment Adviser's relationship with the Client (or failure to retain such relationship). The subcommittee shall determine whether and how to vote all proxies on behalf of the Investment Adviser's clients or, if the proxy matter is, in their judgment, akin to an investment decision, to defer to the applicable portfolio managers, provided that, if the subcommittee determines to alter the Investment Adviser's normal voting guidelines or, on matters where the Investment Adviser's policy is case-by-case, does not follow the voting recommendation of any proxy voting service or other independent fiduciary that may be retained to provide research or advice to the Investment Adviser on that matter, no proxies relating to the Client may be voted unless the Secretary, or in the Secretary's absence, the Assistant Secretary of the Committee concurs that the subcommittee's determination is consistent with the Investment Adviser's fiduciary duties

In addition to the general principles outlined above, the Investment Adviser has adopted voting guidelines with respect to certain recurring proxy issues that are not expected to involve unusual circumstances. These policies are guidelines only, and the Investment Adviser may elect to vote differently from the recommendation set forth in a voting guideline if the Committee determines that it is in a Fund's best interest to do so. In addition, the guidelines may be reviewed at any time upon the request of a Committee member and may be amended or deleted upon the vote of a majority of Committee members present at a Committee meeting at which there is a quorum.

The Investment Adviser has adopted specific voting guidelines with respect to the following proxy issues:

- o Proposals related to the composition of the Board of Directors of issuers other than investment companies. As a general matter, the Committee believes that a company's Board of Directors (rather than shareholders) is most likely to have access to important, nonpublic information regarding a company's business and prospects, and is therefore best-positioned to set corporate policy and oversee management. The Committee, therefore, believes that the foundation of good corporate governance is the election of qualified, independent corporate directors who are likely to diligently represent the interests of shareholders and oversee management of the corporation in a manner that will seek to maximize shareholder value over time. In individual cases, the Committee may look at a nominee's history of representing shareholder interests as a director of other companies or

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other factors, to the extent the Committee deems relevant.

- o Proposals related to the selection of an issuer's independent auditors. As a general matter, the Committee believes that corporate auditors have a responsibility to represent the interests of shareholders and provide an independent view on the propriety of financial reporting decisions of corporate management. While the Committee will generally defer to a corporation's choice of auditor, in individual cases, the Committee may look at an auditors' history of representing shareholder interests as auditor of other companies, to the extent the Committee deems relevant.
- o Proposals related to management compensation and employee benefits. As a general matter, the Committee favors disclosure of an issuer's compensation and benefit policies and opposes excessive compensation, but believes that compensation matters are normally best determined by an issuer's board of directors, rather than shareholders. Proposals to "micro-manage" an issuer's compensation practices or to set arbitrary restrictions on compensation or benefits will, therefore, generally not be supported.
- o Proposals related to requests, principally from management, for approval of amendments that would alter an issuer's capital structure. As a general matter, the Committee will support requests that enhance the rights of common shareholders and oppose requests that appear to be unreasonably dilutive.
- o Proposals related to requests for approval of amendments to an issuer's charter or by-laws. As a general matter, the Committee opposes poison pill provisions.
- o Routine proposals related to requests regarding the formalities of corporate meetings.
- o Proposals related to proxy issues associated solely with holdings of investment company shares. As with other types of companies, the Committee believes that a fund's Board of Directors (rather than its shareholders) is best-positioned to set fund policy and oversee management. However, the Committee opposes granting Boards of Directors authority over certain matters, such as changes to a fund's investment objective, that the Investment Company Act envisions will be approved directly by shareholders.
- o Proposals related to limiting corporate conduct in some manner that relates to the shareholder's environmental or social concerns. The Committee generally believes that annual shareholder meetings are inappropriate forums for discussion of larger social issues, and opposes shareholder resolutions "micromanaging" corporate conduct or requesting release of information that would not help a shareholder evaluate an investment in the corporation as an economic matter. While the Committee is generally supportive of proposals to require corporate disclosure of matters that seem relevant and material to the economic interests of shareholders, the Committee is generally not supportive of proposals to require disclosure of corporate matters for other purposes.

Item 8 - Reserved

Item 9 - Controls and Procedures

9(a) - The registrant's certifying officers have reasonably designed such disclosure controls and procedures to ensure material information

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relating to the registrant is made known to us by others particularly during the period in which this report is being prepared. The registrant's certifying officers have determined that the registrant's disclosure controls and procedures are effective based on our evaluation of these controls and procedures as of a date within 90 days prior to the filing date of this report.

- 9(b) - There were no significant changes in the registrant's internal controls or in other factors that could significantly affect these controls subsequent to the date of their evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

Item 10 - Exhibits attached hereto

10(a) - Not Applicable

10(b) - Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Apex Municipal Fund, Inc.

By: /s/ Terry K. Glenn

Terry K. Glenn,
President of
Apex Municipal Fund, Inc.

Date: February 23, 2004

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Terry K. Glenn

Terry K. Glenn,
President of
Apex Municipal Fund, Inc.

Date: February 23, 2004

By: /s/ Donald C. Burke

Donald C. Burke,
Chief Financial Officer of
Apex Municipal Fund, Inc.

Date: February 23, 2004