

Municipal Bond Monthly

NORTH AMERICA

MATTHEW GASTALL

Executive Director
Morgan Stanley Wealth Management
Matthew.Gastall@morganstanley.com
+1 212 296-2602

Special thanks to Monica Guerra for her contribution to this report.

Strategy:

- Cautiously Consider Pre-Summer Entry Points
- Keep It Simple—Focus On Front-End High-Quality
- Systematically Add Exposure; Maintain Allocations

Credit Quality: High

Favored Sectors: Please see our Sector Outlooks Table

Coupon Structure: 4.5% or Higher

Fig 1. “Short, but Sweet” — Additional Yield Declines



Source: Morgan Stanley Wealth Management Municipal Research and Strategy, Thomson Reuters as of 5/22/18

Elegant Simplicity

“Simplicity is the ultimate sophistication”— Keeping any task simple is often easier said than done, but wasn’t Leonardo da Vinci right when identifying our natural intuition that something has to be more complicated than it really is? Interestingly enough, those who are often most successful at an endeavor are those who can most efficiently simplify the task to its least-complicated form. Though global monetary policy is tightening and the macroeconomic backdrop is clearly in transition, the repercussions of these dynamics have actually helped to *simplify* our investment decisions throughout the public finance arena. So why complicate them?

There are two important developments that help us to support the aforementioned approach—one of the old and one of the new. Let’s start with the most recent development first.

The first dynamic deals with the continued flattening of the US Treasury (UST) and municipal bond yield curves. As many of our readers know, bonds with longer final maturities often yield more than those with shorter redemption dates, as investors often require additional compensation for accepting more interest rate and credit risk. This relationship can change, however, since interest rates rarely transition in a perfectly uniform fashion throughout the curve. Most recently, yields on bonds with shorter maturities have risen faster than those offered by securities with longer redemptions. This dynamic has been predominantly caused by the market’s anticipations for future federal funds rate increases, a strategy of monetary policy that often has the most pronounced impact on the short end of the yield curve. As observed in Figure 1, the additional yields earned by extending from 2- to 10-, 10- to 30-, and 2- to 30-year municipals currently stand near the lowest levels recorded since 2008. In summary, participants are receiving some of the best compensation in a decade for “keeping it simple” and investing in bonds with shorter final maturities.

We can now transition our focus from the new to the old—credit spreads. This topic is one that we’ve discussed quite often, but the dynamic is still undoubtedly important when committing capital. Similar to how interest rate relationships can change throughout maturities, the difference in yields offered between securities of divergent credit qualities can fluctuate as well. These spreads tend to decline, or “tighten,” when demand increases and investors are comfortable with taking risk. Conversely, credit spreads tend to “widen” during recessionary periods when a risk-off investor sentiment is apparent. As observed in Figure 3 on page 3, the yield differences between “AAA” and lower-rated securities also hover near the lowest levels recorded since 2008.

Morgan Stanley Wealth Management is the trade name of Morgan Stanley Smith Barney LLC, a registered broker-dealer in the United States. Morgan Stanley Wealth Management does and seeks to do business with companies covered in Morgan Stanley Wealth Management Research. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of Morgan Stanley Wealth Management Research. Investors should consider Morgan Stanley Wealth Management Research as only a single factor in making their investment decision.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

In summary, investors are receiving some of the best relative compensation in a decade for keeping it simple by focusing on bonds with high credit qualities (AA- or higher).

Combining the aforementioned dynamics, we would focus on three objectives at this time: (1) cautiously consider entry points while new-issue supply is healthy this spring; (2) keep it simple and maintain a focus on front-end, high credit quality municipals; (3) look to systematically add exposure and maintain appropriate asset allocations.

First, we believe investors looking to add exposure should carefully put some capital to work before the summer. Though each year ushers in its own set of macroeconomic dynamics and market variables, the consistency of seasonal changes in both trading activity and primary market behavior throughout the tax-exempt arena is notable and warrants attention. In fact, new-issue supply increases by an average of 16% between May and June, then declines by 27% in July. This reduction is often accompanied by an increase in redemption-driven reinvestment demand. Recently released ICE Data forecast that redemptions will increase by 61% next month and should remain elevated until autumn. When combining the possibility of stronger reinvestment demand with lower new-issue supply, we believe investors should cautiously put some capital to work this spring. Additionally, the [Blue-Sky](#) dynamic of low 2018 supply, mild credit conditions, a flatter yield curve, modest rate stability, and the summer's impending seasonal backdrop may continue to foster a constructive setting for municipals as we journey into the second half of this year. (This dynamic was also discussed by our Morgan Stanley & Co. brethren in [Teflon Bond](#).)

Second, tightening monetary policy and the transitioning macroeconomic backdrop have indeed helped to simplify our

investment decisions throughout the public finance arena. As previously discussed, fed funds rate hike expectations have helped yields on shorter maturity securities to rise, causing the slope of the municipal bond yield curve to flatten. Most notably, over 70% of the yield offered throughout the entire curve is now captured in six years. Complementing this development, tight credit spreads indicate that investors are currently compensated less for risk-taking. Should economic challenges surface, these credits are also vulnerable to price depreciation. Importantly, investors are now receiving some of the best relative compensation in a decade for focusing on high-quality bonds with shorter final maturities.

Lastly, when committing capital we would continue to do so gradually throughout the spring—preferably in periodic intervals when healthy issuance creates pockets of underperformance. This cautious approach is important due to the still-lingering presence of catalysts that may incite further fixed income weakness. Though recent municipal rate stability is encouraging, we see many global dynamics that may cause interest rates to rise again. Additionally, the possibility of rising rates and the continued flattening of the yield curve encourage investors to remain mindful of asset allocations and to maintain appropriate exposures to cash.

“Simplicity is the ultimate sophistication.” Though global monetary policy is tightening and the macroeconomic backdrop is in transition, household investors are receiving some of the best relative compensation in a decade to “keep it simple” and invest in high-quality bonds with shorter final maturities. When considering the many economic possibilities of the near future (a potential late-cycle economy *with* higher interest rates), why complicate the simplicity?

Monthly Spotlight – Pre-Refunded and ETM Municipal Securities

Short and simple: When discussing high-quality bonds with shorter final maturities, there isn't a more textbook example than pre-refunded (pre-re) and escrowed-to-maturity (ETM) municipal securities.

Pre-refunded and **ETM** bonds are state or local government securities whose future principal and interest payments have already been raised. Consequently, future debt-service allocations are paid from an escrow account until the bonds can be redeemed and are no longer dependent upon future tax collections and/or revenue streams. As a result, the securities are often considered to be of very strong credit quality, as payments are currently “waiting” in an escrow account comprised of high-quality US government investments. The bonds are also generally less volatile due to their high coupon income and shorter redemption dates. (Pre-res are often redeemed at the earliest call date, while ETMs typically remain outstanding until maturity.)

As every investment has its considerations, keep in mind that the securities' typically offer less yield due to their high credit qualities and shorter maturities. Additionally, the relative value of

the bonds versus USTs has recently declined after the Tax Cuts and Jobs Act (TCJA) limited the ability of issuers to advance refund outstanding debt (scarcity value). However, keep in mind that higher nominal yields should now help investors to earn more than nearly any period during the last ten years. Interested participants may also wish to contact their Morgan Stanley Wealth Management Financial Advisor to review a bond's collateral and confirm that all redemption provisions have been fully and properly defeased.

Pre-refunded and ETM municipal bonds in our view are an exceptional option for investors searching for securities of strong credit quality that pay above-market coupon income (with potentially short redemption dates). Investors should also watch for periods when the securities yield near, or more than, corresponding USTs; the bonds are often secured by a portfolio of comparable US government investments, but their coupon payments are exempt from federal, and possibly state and local, income taxation.

Municipal Market Data

Fig 2. Relative Value — Ratios Low; “Blue-Sky” Outperformance Continues

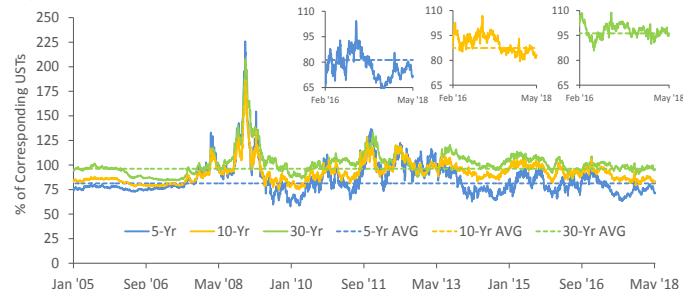


Fig 4. 10-Yr AAA MMD Near One-Year High; Be Cautious Adding Exposure



Fig 6. Monthly Supply — Seasonal Factors In Play

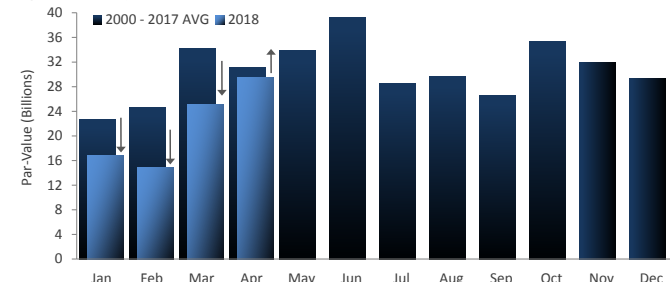


Fig 3. Credit Spreads — Low Compensation for Credit Risk



Fig 5. Yield-Curve — Low Compensation for Interest-Rate Risk

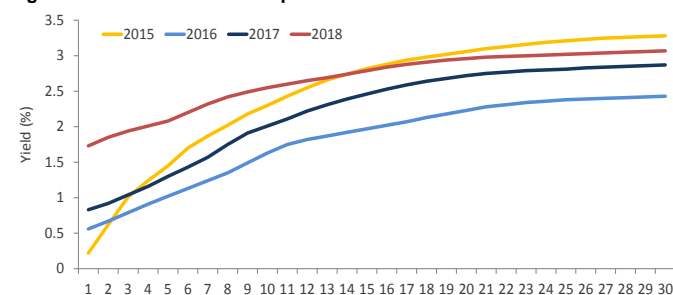
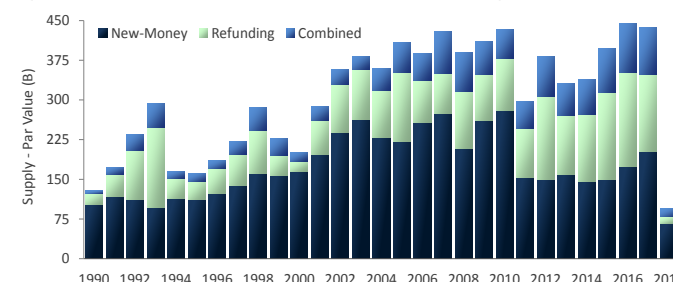


Fig 7. Annual Supply — Still Low YTD Metrics Following Reform



Source: Morgan Stanley Wealth Management Municipal Research and Strategy, Thomson Reuters MMD, Bloomberg, The Bond Buyer as of 5/22/18

Fig 8. Sector Outlooks and Recommended Rating Parameters

| Sector | Minimum Rating* | Commentary |
|-----------------------------------|-----------------|--|
| State GO & State Appropriated | A1/A+ | Pension/OPEB challenges exist. SALT debate challenges high-tax states. Volatility/downgrades continue. Be selective. |
| Local GO | Aa1/AA+ | State aid, pension challenges, and SALT challenges apparent. We strongly advocate selectivity and high credit quality. |
| Essential Service (Water & Sewer) | A2/A | Essential purpose beneficial, where applicable; capital needs may create select challenges. |
| US Public Power | A2/A | Favorable non-cyclicality of revenues; evolving power markets and regulation may create select challenges. |
| State Housing Finance Agencies | Aa2/AA | Exposed to housing market momentum; diversified business models; recession risk; SALT challenges in high-tax states |
| Higher Education | Aa3/AA- | We recommend higher-rated, well-established institutions due to student selectivity and price sensitivity. |
| Transportation | A2/A | Bolstered by modest economic growth and still relatively low oil prices. Recession risk exists. |
| Not-for-Profit Hospitals | Aa2/AA | We recommend larger systems as a conservative choice. The future of the ACA is still unclear. |
| Tax-Secured / Dedicated-Tax | A1/A+ | Generally less political risk. We prefer high-quality income, sales, and utility tax bonds with no commingling of revenues |

*Table lists minimum credit rating recommended for buy-and-hold investors. (Please consider referenced rating with a stable outlook and/or higher rating.) Tactical decisions or whether a bond is over/undervalued should be evaluated on a case-by-case basis.

Moody's and S&P Ratings Scale

| | Moody's | S&P |
|------------------|---------|------|
| Investment Grade | Aaa | AAA |
| | Aa1 | AA+ |
| | Aa2 | AA |
| | Aa3 | AA- |
| | A1 | A+ |
| | A2 | A |
| | A3 | A- |
| | Baa1 | BBB+ |
| | Baa2 | BBB |
| | Baa3 | BBB- |
| High Yield | Ba1 | BB+ |
| | Ba2 | BB |
| | Ba3 | BB- |
| | B1 | B+ |
| | B2 | B |
| | B3 | B- |
| | Caa1 | CCC+ |
| | Caa2 | CCC |
| | Caa3 | CCC- |
| | Ca | CC |
| | C | C |
| | WR | D |
| | NR | NR |

Source: Bloomberg

Credit ratings throughout this report are cited from Standard & Poor's and Moody's given they are two of the most widely followed credit agencies in the fixed income markets.

Credit quality is a measure of a bond issuer's creditworthiness, or ability to repay interest and principal to bondholders in a timely manner. The credit ratings shown throughout this report are based on each issuer's security rating as provided by Standard & Poor's and Moody's, as applicable. The credit quality of the issuers listed in this report **does not represent the stability or safety of the bonds**. Credit ratings shown range from AAA, being the highest, to D, being the lowest based on S&P's classification (the equivalent of Aaa and C, respectively, by Moody's). Ratings of BBB or higher by S&P (Baa or higher by Moody's) are considered to be investment grade-quality securities. Within Moody's classification, "WR" stands for "withdrawn rating." Reasons for withdrawals include: debt maturity, e.g., calls, puts, conversions, etc.; and business reasons, e.g., change in the size of a debt issue or the issuer defaults. "NR" stands for "not rated" by the agencies.

Index Definitions

For index, indicator and survey definitions referenced in this report please visit the following:

<http://www.morganstanleyfa.com/public/projectfiles/id.pdf>

Risk Considerations

Bonds are subject to interest rate risk. When interest rates rise, bond prices fall; generally the longer a bond's maturity, the more sensitive it is to this risk. Bonds may also be subject to call risk, which is the risk that the issuer will redeem the debt at its option, fully or partially, before the scheduled maturity date. The market value of debt instruments may fluctuate, and proceeds from sales prior to maturity may be more or less than the amount originally invested or the maturity value due to changes in market conditions or changes in the credit quality of the issuer. Bonds are subject to the

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

4

credit risk of the issuer. This is the risk that the issuer might be unable to make interest and/or principal payments on a timely basis. Bonds are also subject to reinvestment risk, which is the risk that principal and/or interest payments from a given investment may be reinvested at a lower interest rate.

Bonds rated below investment grade may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk and price volatility in the secondary market. Investors should be careful to consider these risks alongside their individual circumstances, objectives and risk tolerance before investing in high-yield bonds. High yield bonds should comprise only a limited portion of a balanced portfolio.

Interest on **municipal bonds** is generally exempt from federal income tax; however, some bonds may be subject to the alternative minimum tax (AMT). Also, municipal bonds acquired in the secondary market at a discount may be subject to the market discount tax provisions, and therefore could give rise to taxable income. Typically, state tax-exemption applies if securities are issued within one's state of residence and, if applicable, local tax-exemption applies if securities are issued within one's city of residence. The tax-exempt status of municipal securities may be changed by legislative process, which could affect their value and marketability.

Because of their narrow focus, **sector investments** tend to be more volatile than investments that diversify across many sectors and companies.

Yields are subject to change with economic conditions. Yield is only one factor that should be considered when making an investment decision.

Credit ratings are subject to change.

Disclosure Section

The information and opinions in Morgan Stanley Wealth Management Research were prepared by Morgan Stanley Smith Barney LLC under its trade name Morgan Stanley Wealth Management.

For important disclosures (including copies of historical disclosures) regarding the securities and/or companies that are the subject of this Morgan Stanley Wealth Management Research product, please contact Morgan Stanley Wealth Management Research, 522 Fifth Ave., New York, N.Y. 10036, Attention: Research Management. In addition, the same important disclosures, with the exception of the historical disclosures, are contained on the Firm's disclosure website at <https://www.morganstanley.com/online/researchdisclosures>. Historical disclosures will be provided upon request back to June 1, 2009.

Morgan Stanley Wealth Management Analyst Certification

The Morgan Stanley Wealth Management research analysts principally responsible for the preparation and content of all or any identified portion of this research report, hereby certify that their views about the securities and/or companies discussed in this report are accurately expressed and that they have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report. Unless otherwise stated, the individuals listed on the cover page of this report are Morgan Stanley Wealth Management research analysts.

Global Research Conflict Management Policy

Morgan Stanley Wealth Management has a Conflict Management policy available at: <https://www.morganstanley.com/online/researchconflictolicies>

Important US Regulatory Disclosures on Subject Issuers

The research analysts or strategists principally responsible for the preparation of Morgan Stanley Wealth Management Research have received compensation based upon various factors, including quality of research, investor client feedback, competitive factors, and firm profitability or revenues (which include fixed income trading and capital markets profitability or revenues). Research analysts' or strategists' compensation is not linked to the profitability or revenues of particular capital markets transactions performed by Morgan Stanley Wealth Management or the profitability or revenues of particular fixed income trading desks.

Morgan Stanley Wealth Management and its affiliates do business that relates to companies/instruments covered in Morgan Stanley Wealth Management Research. Morgan Stanley Wealth Management and/or its affiliates sells to and buys from customers the securities/instruments of issuers covered in this Morgan Stanley Wealth Management Research report on a principal basis.

Certain disclosures listed above are also for compliance with applicable regulations in non-US jurisdictions.

Closed-End Fund Rating System

Morgan Stanley Wealth Management only rates Closed-End Funds ("CEF"). For CEFs, Morgan Stanley Wealth Management uses a relative rating system using the terms Overweight, Equal-weight, Underweight, and Not Covered (see definitions below). Morgan Stanley Wealth Management

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

5

does not assign ratings of Buy, Hold or Sell to the CEFs we cover. Overweight, Equal-weight, and Underweight are not the equivalent of buy, hold and sell. Investors should carefully read the definitions of all ratings used in Morgan Stanley Wealth Management Research. In addition, since Morgan Stanley Wealth Management Research contains more complete information concerning the analyst's view, investors should carefully read Morgan Stanley Wealth Management Research, in its entirety, and not infer the contents from the ratings alone. In any case, ratings (or research) should not be used or relied upon as investment advice. An investor's decision to buy or sell a security or fund should depend on individual circumstances (such as the investor's existing holdings) and other considerations.

Closed-End Fund Ratings Definitions

Overweight (O): The closed-end fund's total return is expected to exceed the average total return of the analyst's industry coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Equal-weight (E): The closed-end fund's total return is expected to be in line with the average total return of the analyst's industry coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Underweight (U): The closed end fund's total return is expected to be below the average total return of the analyst's industry coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Not Covered (NC): Indicates that the analyst does not cover the fund.

Closed-End Fund Ratings Distribution

(as of date **April 30, 2018**)

Morgan Stanley Wealth Management only rates CEFs. Thus, this Ratings Distribution table only displays the distribution data for the rated CEFs. For disclosure purposes only (in accordance with FINRA requirements), we include the category of Buy, Hold, and Sell alongside our ratings of Overweight, Equal-weight, and Underweight. Morgan Stanley Wealth Management does not assign ratings of Buy, Hold or Sell to the CEFs we cover. Overweight, Equal-weight, and Underweight are not the equivalent of buy, hold, and sell but represent recommended relative weightings (see definition below). To satisfy regulatory requirements, we correspond Overweight, our most positive stock rating, with a buy recommendation; we correspond Equal-weight to hold and Underweight to sell recommendations, respectively.

| Closed-End Fund (CEF) Rating Category | CEF Coverage Universe | | Investment Banking Clients (IBC) | | |
|---------------------------------------|-----------------------|------------|----------------------------------|----------------|----------------------|
| | Count | % of Total | Count | % of Total IBC | % of Rating Category |
| Overweight/Buy | 35 | 36.1% | 13 | 39.4% | 37.1% |
| Equal-weight/Hold | 43 | 44.3% | 13 | 39.4% | 30.2% |
| Underweight/Sell | 19 | 19.6% | 7 | 21.2% | 36.8% |
| Total | 97 | 100.0% | 33 | 100.0% | |

Data includes CEFs currently assigned ratings. An investor's decision to buy or sell a fund should depend on individual circumstances (such as an investor's existing holdings) and other considerations.

The Investment Banking Clients data above applies only to Morgan Stanley Wealth Management's CEF coverage universe. The data indicates those CEF investment managers for whom Morgan Stanley Wealth Management, provided investment banking services within the previous 12 months.

Other Important Disclosures

This Morgan Stanley Wealth Management Research does not provide individually tailored investment advice. Morgan Stanley Wealth Management Research has been prepared without regard to the individual financial circumstances and objectives of persons who receive it. Morgan Stanley Wealth Management recommends that investors independently evaluate particular investments and strategies, and encourages investors to seek the advice of a financial advisor. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. The securities, instruments, or strategies discussed in Morgan Stanley Wealth Management Research may not be suitable for all investors, and certain investors may not be eligible to purchase or participate in some or all of them.

Morgan Stanley Smith Barney LLC, its affiliates and Morgan Stanley Financial Advisors do not provide legal or tax advice. Each client should always consult his/her personal tax and/or legal advisor for information concerning his/her individual situation and to learn about any potential tax or other implications that may result from acting on a particular recommendation.

Morgan Stanley Wealth Management Research is not an offer to buy or sell or the solicitation of an offer to buy or sell any security/instrument or to participate in any particular trading strategy. The "Important US Regulatory Disclosures on Subject Issuers" section in Morgan Stanley Wealth Management Research reports or the "Listing of Important U.S. Regulatory Disclosures by security" section of the firm's disclosure website at

<https://www.morganstanley.com/online/researchdisclosures> lists all issuers mentioned where Morgan Stanley Wealth Management or its affiliates own 1% or more of a class of common equity securities of the issuers. For all other issuers mentioned in Morgan Stanley Wealth Management Research, Morgan Stanley Wealth Management or its affiliates may have an investment of less than 1% in securities/instruments or derivatives of securities/instruments of companies and may trade them in ways different from those discussed in Morgan Stanley Wealth Management Research. Employees of Morgan Stanley Wealth Management Research are not involved in the preparation of Morgan Stanley Wealth Management Research, may have investments in securities/instruments or derivatives of securities/instruments of issuers mentioned and may trade them in ways different from those discussed in Morgan Stanley Wealth Management Research.

Morgan Stanley Wealth Management Research is based on public information. Morgan Stanley Wealth Management makes every effort to use reliable, comprehensive information, but we make no representation that it is accurate or complete. We have no obligation to tell you when opinions or information in Morgan Stanley Wealth Management Research change apart from when we intend to discontinue equity research coverage of a subject company. Facts and views presented in Morgan Stanley Wealth Management Research have not been reviewed by, and may not reflect information known to, professionals in other Morgan Stanley Wealth Management business areas, including investment banking personnel.

Morgan Stanley Wealth Management Research personnel conduct site visits from time to time but are prohibited from accepting payment or reimbursement by the company of travel expenses for such visits.

The value of and income from your investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, market indexes, operational or financial conditions of companies or other factors. There may be time limitations on the exercise of options or other rights in securities/instruments transactions. Past performance is not necessarily a guide to future performance. Estimates of future performance are based on assumptions that may not be realized. If provided, and unless otherwise stated, the closing price on the cover page is that of the primary exchange for the subject company's securities/instruments.

Morgan Stanley Wealth Management may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

Investing in closed-end funds involves risks. These include the general risks associated with investing in securities, possible changes in market prices relative to net asset values and manager performance.

Besides the general risk of holding securities that may decline in value, closed-end funds have risks related to leverage and the potential for discounts to widen.

Morgan Stanley Wealth Management's Global Research Department produces and distributes research products for clients of Morgan Stanley Wealth Management.

This research is disseminated in Australia to "retail clients" within the meaning of the Australian Corporations Act by Morgan Stanley Wealth Management Australia Pty Ltd (A.B.N. 19 009 145 555, holder of Australian financial services license No. 240813).

Morgan Stanley Wealth Management is not incorporated under the People's Republic of China ("PRC") law and the research in relation to this report is conducted outside the PRC. In the PRC, this report will be distributed only upon request of a specific recipient. This report does not constitute an offer to sell or the solicitation of an offer to buy any securities in the PRC. PRC investors must have the relevant qualifications to invest in such securities and must be responsible for obtaining all relevant approvals, licenses, verifications and or registrations from PRC's relevant governmental authorities.

If your financial adviser is based in Australia, Switzerland or the United Kingdom, then please be aware that this report is being distributed by the Morgan Stanley entity where your financial adviser is located, as follows: Australia: Morgan Stanley Wealth Management Australia Pty Ltd (ABN 19 009 145 555, AFSL No. 240813); Switzerland: Morgan Stanley (Switzerland) AG regulated by the Swiss Financial Market Supervisory Authority; or United Kingdom: Morgan Stanley Private Wealth Management Ltd, authorized and regulated by the Financial Conduct Authority, approves for the purposes of section 21 of the Financial Services and Markets Act 2000 this research for distribution in the United Kingdom.

Morgan Stanley Wealth Management is not acting as a municipal advisor to any municipal entity or obligated person within the meaning of Section 15B of the Securities Exchange Act (the "Municipal Advisor Rule") and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of the Municipal Advisor Rule.

This material is disseminated in the United States of America by Morgan Stanley Wealth Management.

The trademarks and service marks contained in Morgan Stanley Wealth Management Research are the property of their respective owners. Third-party data providers make no warranties or representations of any kind relating to the accuracy, completeness, or timeliness of the data they provide and shall not have liability for any damages of any kind relating to such data.

Morgan Stanley Wealth Management Research, or any portion thereof may not be reprinted, sold or redistributed without the written consent of Morgan Stanley Smith Barney LLC.

Morgan Stanley Wealth Management Research is disseminated and available primarily electronically, and, in some cases, in printed form.

Additional information on recommended securities/instruments is available on request.

© 2018 Morgan Stanley Smith Barney LLC. Member SIPC.

For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

7