## Hypothetical Bonding Analysis and Market Update



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Hypothetical Bonding Analysis

Tab 1

## Hypothetical GO Bonds (Alternate Revenue Source), Series 2023(1) \$2 Million Project

Bond Year
Ending
December 1

| 10 Year Term |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Assumed | Assumed | Assumed | Total Debt |
| Principal | Rate | Yield | Interest | Service |
| $(12 / 1)$ |  |  | $(6 / 1 \& 12 / 1)$ |  |


| 15 Year Term |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Assumed <br> Rate | Assumed <br> Yield | Assumed <br> Interest | Total Debt <br> Service |
| Principal | (12/1) |  |  | $(6 / 1 \& 12 / 1)$ |


| 20 Year Term |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Principal | Assumed Rate | Assumed Yield | Assumed Interest | Total Debt Service |
| (12/1) |  |  | (6/1 \& 12/1) |  |
| \$60,000 | 5.000\% | 3.970\% | \$97,441 | \$157,441 |
| \$65,000 | 5.000\% | 3.890\% | \$94,713 | \$159,713 |
| \$65,000 | 5.000\% | 3.830\% | \$91,463 | \$156,463 |
| \$70,000 | 5.000\% | 3.790\% | \$88,213 | \$158,213 |
| \$75,000 | 5.000\% | 3.790\% | \$84,713 | \$159,713 |
| \$80,000 | 5.000\% | 3.790\% | \$80,963 | \$160,963 |
| \$80,000 | 5.000\% | 3.790\% | \$76,963 | \$156,963 |
| \$85,000 | 5.000\% | 3.800\% | \$72,963 | \$157,963 |
| \$90,000 | 5.000\% | 3.860\% | \$68,713 | \$158,713 |
| \$95,000 | 5.000\% | 3.960\% | \$64,213 | \$159,213 |
| \$100,000 | 5.000\% | 4.060\% | \$59,463 | \$159,463 |
| \$105,000 | 5.000\% | 4.160\% | \$54,463 | \$159,463 |
| \$110,000 | 5.000\% | 4.260\% | \$49,213 | \$159,213 |
| \$115,000 | 5.000\% | 4.390\% | \$43,713 | \$158,713 |
| \$120,000 | 5.000\% | 4.490\% | \$37,963 | \$157,963 |
| \$125,000 | 4.500\% | 4.740\% | \$31,963 | \$156,963 |
| \$130,000 | 4.500\% | 4.790\% | \$26,338 | \$156,338 |
| \$140,000 | 4.625\% | 4.840\% | \$20,488 | \$160,488 |
| \$145,000 | 4.750\% | 4.890\% | \$14,013 | \$159,013 |
| \$150,000 | 4.750\% | 4.940\% | \$7,125 | \$157,125 |
| \$2,005,000 |  |  | \$1,165,091 | \$3,170,091 |


| \$1,955,000 | \$576,228 | \$2,531,228 | \$1,945,000 | \$865,230 | \$2,810,230 | \$2,005,000 | \$1,165,091 | \$3,170,091 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Assumed Sources and Uses |  |  | Assumed Sources and Uses |  |  | Assumed Sources and Uses |  |  |
| Sources of Funds |  |  | Sources of Funds |  |  | Sources of Funds |  |  |
| Par Amount |  | \$1,955,000 | Par Amount |  | \$1,945,000 | Par Amount |  | \$2,005,000 |
| Reoffering Premium |  | \$114,312 | Reoffering Premium |  | \$122,529 | Reoffering Premium |  | \$65,753 |
| Total Sources |  | \$2,069,312 | Total Sources |  | \$2,067,529 | Total Sources |  | \$2,070,753 |
| Uses of Funds |  |  | Uses of Funds |  |  | Uses of Funds |  |  |
| Deposit to Project Fund |  | \$2,000,000 | Deposit to Project Fund |  | \$2,000,000 | Deposit to Project Fund |  | \$2,000,000 |
| Assumed Costs of Issuance ${ }^{(2)}$ |  | \$66,244 | Assumed Costs of Issuance ${ }^{(2)}$ |  | \$66,781 | Assumed Costs of Issuance ${ }^{(2)}$ |  | \$69,660 |
| Rounding Amount |  | \$3,068 | Rounding Amount |  | \$748 | Rounding Amount |  | \$1,093 |
| Total Uses of Funds |  | \$2,069,312 | Total Uses of Funds |  | \$2,067,529 | Total Uses of Funds |  | \$2,070,753 |
| Potential True Interest Cost ${ }^{(3)}$ |  | 3.81\% | Potential True Interest Cost ${ }^{(3)}$ |  | 4.07\% | Potential True Interest Cost ${ }^{(3)}$ |  | 4.41\% |
| Potential TIC Minus 10 Basis Points ${ }^{(3)}$ |  | 3.71\% | Potential TIC Minus 10 Basis Points ${ }^{(3)}$ |  | 3.97\% | Potential TIC Minus 10 Basis Points ${ }^{(3)}$ |  | 4.31\% |
| Potential TIC Plus 10 Basis Points ${ }^{(3)}$ |  | 3.91\% | Potential TIC Plus 10 Basis Points ${ }^{(3)}$ |  | 4.17\% | Potential TIC Plus 10 Basis Points ${ }^{(3)}$ |  | 4.51\% |

(2) Assumed costs of issuance of $\$ 25$ per $\$ 1,000$ of bonds and a bond insurance premium of 30 basis points. Preliminary, subject to change

## Hypothetical GO Bonds (Alternate Revenue Source), Series 2023(1) \$2.5 Million Project

|  |
| :---: |
| Bond Year <br> Ending <br> December 1 |

10 Year Term

| 15 Year Term |  |  |  |  | 20 Year Term |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Principal | Assumed Rate | Assumed Yield | Assumed Interest | Total Debt Service | Principal | Assumed Rate | Assumed Yield | Assumed Interest | Total Debt Service |
| (12/1) |  |  | (6/1 \& 12/1) |  | (12/1) |  |  | (6/1 \& 12/1) |  |
| \$115,000 | 5.000\% | 3.970\% | \$121,412 | \$236,412 | \$75,000 | 5.000\% | 3.970\% | \$121,954 | \$196,954 |
| \$120,000 | 5.000\% | 3.890\% | \$116,000 | \$236,000 | \$80,000 | 5.000\% | 3.890\% | \$118,544 | \$198,544 |
| \$125,000 | 5.000\% | 3.830\% | \$110,000 | \$235,000 | \$85,000 | 5.000\% | 3.830\% | \$114,544 | \$199,544 |
| \$130,000 | 5.000\% | 3.790\% | \$103,750 | \$233,750 | \$90,000 | 5.000\% | 3.790\% | \$110,294 | \$200,294 |
| \$135,000 | 5.000\% | 3.790\% | \$97,250 | \$232,250 | \$95,000 | 5.000\% | 3.790\% | \$105,794 | \$200,794 |
| \$145,000 | 5.000\% | 3.790\% | \$90,500 | \$235,500 | \$95,000 | 5.000\% | 3.790\% | \$101,044 | \$196,044 |
| \$150,000 | 5.000\% | 3.790\% | \$83,250 | \$233,250 | \$100,000 | 5.000\% | 3.790\% | \$96,294 | \$196,294 |
| \$160,000 | 5.000\% | 3.800\% | \$75,750 | \$235,750 | \$105,000 | 5.000\% | 3.800\% | \$91,294 | \$196,294 |
| \$165,000 | 5.000\% | 3.860\% | \$67,750 | \$232,750 | \$110,000 | 5.000\% | 3.860\% | \$86,044 | \$196,044 |
| \$175,000 | 5.000\% | 3.960\% | \$59,500 | \$234,500 | \$120,000 | 5.000\% | 3.960\% | \$80,544 | \$200,544 |
| \$185,000 | 5.000\% | 4.060\% | \$50,750 | \$235,750 | \$125,000 | 5.000\% | 4.060\% | \$74,544 | \$199,544 |
| \$195,000 | 5.000\% | 4.160\% | \$41,500 | \$236,500 | \$130,000 | 5.000\% | 4.160\% | \$68,294 | \$198,294 |
| \$200,000 | 5.000\% | 4.260\% | \$31,750 | \$231,750 | \$135,000 | 5.000\% | 4.260\% | \$61,794 | \$196,794 |
| \$210,000 | 5.000\% | 4.390\% | \$21,750 | \$231,750 | \$145,000 | 5.000\% | 4.390\% | \$55,044 | \$200,044 |
| \$225,000 | 5.000\% | 4.490\% | \$11,250 | \$236,250 | \$150,000 | 5.000\% | 4.490\% | \$47,794 | \$197,794 |
|  |  |  |  |  | \$160,000 | 4.500\% | 4.740\% | \$40,294 | \$200,294 |
|  |  |  |  |  | \$165,000 | 4.500\% | 4.790\% | \$33,094 | \$198,094 |
|  |  |  |  |  | \$175,000 | 4.625\% | 4.840\% | \$25,669 | \$200,669 |
|  |  |  |  |  | \$180,000 | 4.750\% | $4.890 \%$ | $\$ 17,575$ | $\$ 197,575$ |
|  |  |  |  |  | \$190,000 | 4.750\% | 4.940\% | \$9,025 | \$199,025 |
| \$2,435,000 |  |  | \$1,082,162 | \$3,517,162 | \$2,510,000 |  |  | \$1,459,473 | \$3,969,473 |
| Assumed Sources and Uses |  |  |  |  | Assumed Sources and Uses |  |  |  |  |
| Sources of Funds |  |  |  |  | Sources of Funds |  |  |  |  |


| Par Amount | \$2,440,000 | Par Amount | \$2,435,000 | Par Amount | \$2,510,000 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Reoffering Premium | \$142,834 | Reoffering Premium | \$153,335 | Reoffering Premium | \$81,515 |
| Total Sources | \$2,582,834 | Total Sources | \$2,588,335 | Total Sources | \$2,591,515 |
| Uses of Funds |  | Uses of Funds |  | Uses of Funds |  |
| Deposit to Project Fund | \$2,500,000 | Deposit to Project Fund | \$2,500,000 | Deposit to Project Fund | \$2,500,000 |
| Assumed Costs of Issuance ${ }^{(2)}$ | \$82,680 | Assumed Costs of Issuance ${ }^{(2)}$ | \$83,601 | Assumed Costs of Issuance ${ }^{(2)}$ | \$87,208 |
| Rounding Amount | \$154 | Rounding Amount | \$4,733 | Rounding Amount | \$4,307 |
| Total Uses of Funds | \$2,582,834 | Total Uses of Funds | \$2,588,335 | Total Uses of Funds | \$2,591,515 |
| Potential True Interest Cost ${ }^{(3)}$ | 3.81\% | Potential True Interest Cost ${ }^{(3)}$ | 4.07\% | Potential True Interest Cost ${ }^{(3)}$ | 4.41\% |
| Potential TIC Minus 10 Basis Points ${ }^{(3)}$ | 3.71\% | Potential TIC Minus 10 Basis Points ${ }^{(3)}$ | 3.97\% | Potential TIC Minus 10 Basis Points ${ }^{(3)}$ | 4.31\% |
| Potential TIC Plus 10 Basis Points ${ }^{(3)}$ | 3.91\% | Potential TIC Plus 10 Basis Points ${ }^{(3)}$ | 4.17\% | Potential TIC Plus 10 Basis Points ${ }^{(3)}$ | 4.51\% |

(2) Assumed costs of issuance of $\$ 25$ per $\$ 1,000$ of bonds and a bond insurance premium of 30 basis points. Preliminary, subject to change

## Hypothetical GO Bonds (Alternate Revenue Source), Series 2023 SUMMARY

BAIRD

|  | \$2 Million Project |  |  |
| :---: | :---: | :---: | :---: |
|  | $\mathbf{1 0}$ Year Term | $\mathbf{1 5}$ Year Term | $\mathbf{2 0}$ Year Term |
| Assumed Deposit to Project Fund | $\$ 2,000,000$ | $\$ 2,000,000$ | $\$ 2,000,000$ |
| Hypothetical Total Debt Service | $\$ 2,531,228$ | $\$ 2,810,230$ | $\$ 3,170,091$ |
| Hypothetical Average Annual Debt Service | $\$ 253,123$ | $\$ 187,349$ | $\$ 158,505$ |
| Potential True Interest Cost | $3.81 \%$ | $4.07 \%$ | $4.41 \%$ |


|  | $\$ 2.5$ Million Project |  |  |
| :---: | :---: | :---: | :---: |
|  | $\mathbf{1 0}$ Year Term | $\mathbf{1 5}$ Year Term | $\mathbf{2 0}$ Year Term |
| Assumed Deposit to Project Fund | $\$ 2,500,000$ | $\$ 2,500,000$ | $\$ 2,500,000$ |
| Hypothetical Total Debt Service | $\$ 3,159,911$ | $\$ 3,517,162$ | $\$ 3,969,473$ |
| Hypothetical Average Annual Debt Service | $\$ 315,991$ | $\$ 234,477$ | $\$ 198,474$ |
| Potential True Interest Cost | $3.81 \%$ | $4.07 \%$ | $4.41 \%$ |

Market Update

Tab 2

## Bond Buyer General Obligation Bond Index - 30 Years

## What is the Bond Buyer 20-Bond Index?

General Obligation Bonds maturing in 20 years are used in compiling these indexes. The 20 -bond index has an average rating equivalent to Moody's Aa2 and S\&P's AA.

## \% OF TIME RATES HAVE BEEN ABOVE OR BELOW CURRENT LEVEL (IN BASIS POINTS)

 8.0\%

## Bond Buyer General Obligation Bond Index - 5 Years

BAIRD


## Tax-Exempt AAA MMD



Source: Refinitiv as of August 31,2023

## Where Have Tax-Exempt AAA MMD Rates Gone?

| Maturity | Annual | Monthly | Weekly | Current |
| :---: | :---: | :---: | :---: | :---: |
|  | 8/31/2022 | 7/31/2023 | 8/24/2023 | 8/31/2023 |
| 1 | 2.21\% | 3.17\% | 3.27\% | 3.25\% |
| 2 | 2.28\% | 3.00\% | 3.19\% | 3.14\% |
| 3 | 2.29\% | 2.85\% | 3.06\% | 3.02\% |
| 4 | 2.31\% | 2.71\% | 2.96\% | 2.91\% |
| 5 | 2.32\% | 2.66\% | 2.93\% | 2.88\% |
| 6 | 2.36\% | 2.58\% | 2.90\% | 2.88\% |
| 7 | 2.40\% | 2.53\% | 2.90\% | 2.88\% |
| 8 | 2.46\% | 2.49\% | 2.91\% | 2.89\% |
| 9 | 2.54\% | 2.50\% | 2.93\% | 2.91\% |
| 10 | 2.59\% | 2.57\% | 2.95\% | 2.93\% |
| 11 | 2.68\% | 2.63\% | 3.02\% | 3.00\% |
| 12 | 2.80\% | 2.71\% | 3.10\% | 3.08\% |
| 13 | 2.86\% | 2.84\% | 3.22\% | 3.20\% |
| 14 | 2.90\% | 2.98\% | 3.34\% | 3.32\% |
| 15 | 2.93\% | 3.07\% | 3.45\% | 3.42\% |
| 16 | 2.97\% | 3.11\% | 3.49\% | 3.46\% |
| 17 | 3.01\% | 3.15\% | 3.53\% | 3.50\% |
| 18 | 3.05\% | 3.20\% | 3.58\% | 3.55\% |
| 19 | 3.10\% | 3.26\% | 3.64\% | 3.61\% |
| 20 | 3.14\% | 3.30\% | 3.68\% | 3.65\% |
| 21 | 3.18\% | 3.33\% | 3.71\% | 3.68\% |
| 22 | 3.20\% | 3.35\% | 3.75\% | 3.72\% |
| 23 | 3.22\% | 3.40\% | 3.79\% | 3.76\% |
| 24 | 3.24\% | 3.43\% | 3.82\% | 3.79\% |
| 25 | 3.25\% | 3.43\% | 3.85\% | 3.82\% |
| 26 | 3.25\% | 3.47\% | 3.87\% | 3.84\% |
| 27 | 3.26\% | 3.48\% | 3.88\% | 3.85\% |
| 28 | 3.27\% | 3.49\% | 3.89\% | 3.86\% |
| 29 | 3.28\% | 3.50\% | 3.90\% | 3.87\% |
| 30 | 3.29\% | 3.51\% | 3.91\% | 3.88\% |

INTEREST RATE COMPARISON


## AAA MMD 1-30YR Maturities

The graph highlights the range of the 1-30 year maturities dating back 10 years, illustrating the highs and lows of the yield curve compared to average and current yield curves.


## Demand Outpacing Supply for Municipal Securities

Net issuance compares bonds that are maturing or being called (investable cash of municipal investors) to bonds issued that have been issued.

- More Demand than Supply theoretically is a result of more bonds being redeemed or called than were brought to market or issued producing negative net issuance (black line below zero)
- More Supply than Demand theoretically is a result of more bonds being issued than were redeemed or called resulting in positive net issuance (black line above zero).


## Key Definitions:

Issued: the volume of bonds issued
Matured/Maturing: the volume of bonds anticipated to be redeemed illustrated in the purple bars Announced Calls: Bonds refunded or anticipated to be refunded
Net Issuance: (Bonds Redemptions + Announced Calls) minus Issuance


## Economic/Interest Rate Update and Forecast

BAIRD

## Key Economic Indicators Per Trading Economics

Consumer Price Index (CPI): In the United States, the CPI measures changes in the prices paid by consumers for a basket of goods and services.

Unemployment: In the United States, the unemployment rate measures the number of people actively looking for a job as a percentage of the labor force.

Non Farm Payrolls: Nonfarm payrolls is an employment report released monthly, usually on the first Friday of every month, and heavily affects the US dollar, the bond market and the stock market. Current Employment Statistics (CES) program from the U.S. Department of Labor Bureau of Labor Statistics, surveys about 141,000 businesses and government agencies, representing approximately 486,000 individual work sites, in order to provide detailed industry data on employment, hours, and earnings of workers on nonfarm payrolls.

Fed Fund Rate: Set by the Federal Open Market Committee, the fed fund rate is a target for which interest rates are set for commercial banks borrow and lend their excess reserves. Over the course of each year, the Federal Reserve meets to adjust the rate as needed in order to allow for economic growth.

## INTEREST RATE FORECAST

|  | Aug 312023 | C4423 | Q124 | C224 | Q1324 | Q424 | Q12 25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fed Funds Rate - Upper Bound | 5.50 | 5.50 | 5.30 | 4.90 | 4.50 | 4.20 | 3.85 |
| Fed Funds Rate - Lower Bound | 5.25 | 5.27 | 5.07 | 4.67 | 4.23 | 3.93 | 3.58 |
| US 2-Year | 4.87 | 4.56 | 4.25 | 3.95 | 3.73 | 3.54 | 3.49 |
| US 5-Year | 4.24 | 4.03 | 3.89 | 3.73 | 3.63 | 3.56 | 3.57 |
| US 10-Year | 4.09 | 3.86 | 3.75 | 3.67 | 3.62 | 3.58 | 3.61 |
| US 30-Year | 4.19 | 4.04 | 3.96 | 3.89 | 3.88 | 3.83 | 3.86 |
| US 3-Month Term SOFR | 5.40 | 5.39 | 5.15 | 4.78 | 4.41 | 4.11 | 3.83 |

ECONOMIC FORECAST

| Indicator | Q2 23 | Q3 23 | Q4 23 | Q124 | Q2 24 | Q3 24 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Economic Activity |  |  |  |  |  |  |
| Real GDP (YoY\%) | 2.30 | 2.10 | 1.50 | 0.90 | 0.50 | 0.80 |
| Real GDP (QoQ\% SAAR) | 2.40 | 1.95 | 0.35 | 0.10 | 0.90 | 1.40 |
| CPI (YoY\%) | 4.10 | 3.50 | 3.15 | 2.70 | 2.60 | 2.50 |
| PCE Price Index (YoY\%) | 3.80 | 3.30 | 3.10 | 2.70 | 2.50 | 2.40 |
| Core PCE (yoy\%) | 4.50 | 4.00 | 3.60 | 3.10 | 2.70 | 2.60 |
| Housing Market |  |  |  |  |  |  |
| Housing Starts (000s SAAR, monthly avg.) | 1447 | 1424 | 1375 | 1384 | 1383 | 1400 |
| New Home Sales (000s SAAR, monthly avg.) | 714 | 700 | 650 | 629 | 650 | 675 |
| Existing Home Sales (MIn SAAR, monthly avg.) | 4.30 | 4.25 | 4.30 | 4.30 | 4.35 | 4.45 |
| Building Permits (000s SAAR, monthly avg.) | 1451 | 1427 | 1410 | 1427 | 1453 | 1486 |
| Labor Market |  |  |  |  |  |  |
| Unemployment (\%) | 3.60 | 3.60 | 3.90 | 4.20 | 4.30 | 4.40 |
| Non Farm Payrolls (000s SA, monthly chg.) | 261.00 | 150.00 | 50.00 | 7.90 | 32.10 | 58.00 |
| Average Hourly Earnings (YoY\%) | 4.30 | 4.20 | 3.90 | 3.90 | 3.60 | 3.40 |

