

## **Sacramento Transportation Authority**

**Market Update and Refunding Analysis** 

**Presented by PFM Financial Advisors LLC** 

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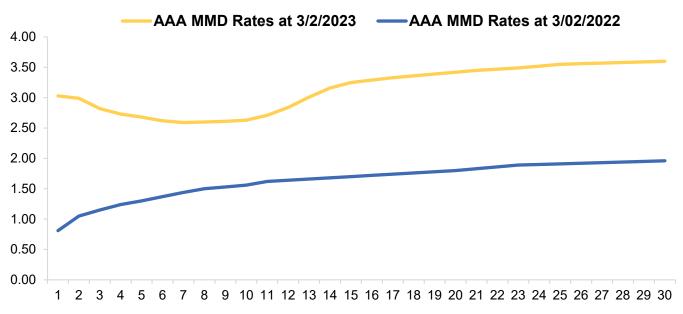


## 1. Market Update



#### **Tax Exempt Yield Curve**

- Inflationary pressure and the Federal Open Market Committee (FOMC) rate hikes increased interest rates over the last year:
  - Tax exempt rates are up 222 basis points (bps) on the short end of the curve
  - Long-term rates are up 164 bps



MMD Yield Curve						
Term	3/2/2023	Delta				
1	3.03	0.81	2.22			
2	2.99	1.05	1.94			
3	2.82	1.15	1.67			
4	2.73	1.24	1.49			
5	2.68	1.30	1.38			
6	2.62	1.37	1.25			
7	2.59	1.44	1.15			
8	2.60	1.50	1.10			
9	2.61	1.53	1.08			
10	2.63	1.56	1.07			
11	2.71	1.62	1.09			
12	2.84	1.64	1.20			
13	3.01	1.66	1.35			
14	3.16	1.68	1.48			
15	3.25	1.70	1.55			
16	3.29	1.72	1.57			
17	3.33	1.74	1.59			
18	3.36	1.76	1.60			
19	3.39	1.78	1.61			
20	3.42	1.80	1.62			
21	3.45	1.83	1.62			
22	3.47	1.86	1.61			
23	3.49	1.89	1.60			
24	3.52	1.90	1.62			
25	3.55	1.91	1.64			
26	3.56	1.92	1.64			
27	3.57	1.93	1.64			
28	3.58	1.94	1.64			
29	3.59	1.95	1.64			
30	3.60	1.96	1.64			



### **10-Year Interest Rates – Taxable & Tax Exempt**

- Taxable rates have increased faster than tax exempt rates
  - Increased taxable rates decreases the cost to terminate the interest rate swaps
- Simultaneously, STA can issue tax-exempt fixed rate bonds to replace the swaps and variable rate bonds
  - Tax-exempt rates are relatively attractive compared to taxable rates

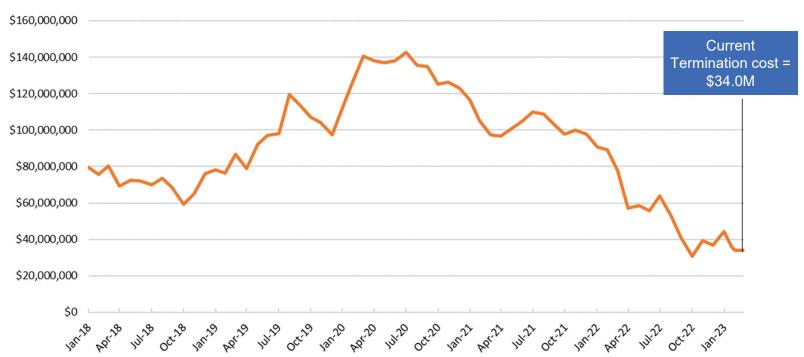




#### **Swap Termination Costs Have Decreased in Recent Months**

- The cost to terminate STA's interest rate swaps is currently near the low-point compared to the last five years
  - Termination costs reached \$140 million during the low-rate period of the pandemic and are now approximately \$34 million





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## 2. Overview of Debt Profile



#### **Current Debt Portfolio**

STA has outstanding debt in the par amount of \$342.5 million

**Sacramento Transportation Authority Debt Summary** 

SERIES	OUTSTANDING PAR	FINAL MATURITY	MODE	SBPA/DIRECT PURCHASE	EXPIRATION/ TENDER DATE	REMARKETING AGENT
2009C	\$106,100,000	10/1/2038	Weekly VRDB	US Bank N.A. SBPA	11/20/2027	US Bank
2014A	\$106,100,000	10/1/2038	Weekly VRDB	Sumitomo Mitsui Banking Corp.	10/30/2024	Wells Fargo
2015A	\$106,100,000	10/1/2038	Weekly VRDB	Sumitomo Mitsui Banking Corp.	5/12/2023	JP Morgan
2022	\$24,245,000	10/1/2027	Fixed Rate	N/A	N/A	N/A

TOTAL \$342,545,000

- The Authority's three swaps have a market valuation of (\$34.01 million)
  - · None of the swaps have a collateral posting requirement and all swaps have performed as anticipated

#### **Sacramento Transportation Authority Swaps Summary**

ASSOCIATED SERIES	AUTHORITY PAYS	AUTHORITY RECIEVES	EFFECTIVE DATE	TERMINATION DATE	NOTIONAL AMOUNT	COLLATERAL THRESHOLD AMOUNTS Aa3/AA+	COUNTERPARTY	CURRENT MARKET VALUATION
2009C	3.74%	67% of 1-month LIBOR	10/1/2009	10/1/2038	106,100,000	Not Applicable	Bank of America N.A.	(\$11,858,356)
2014A	3.74%	67% of 1-month LIBOR	10/1/2009	10/1/2038	106,100,000	Not Applicable	Goldman Sachs Capital Markets	(\$11,860,421)
2015A	3.67%	67% of 3-month LIBOR	10/1/2009	10/1/2038	106,100,000	Not Applicable	JP Morgan Chase Bank N. A	(\$10,294,698)
TOTAL					\$318,300,000			(\$34,013,476)

Market Valuations are dated 3/02/2023 from PFM Swap Advisors



## **Total Cost on Interest Rate Swap and Bonds**

• STA's all-in cost of capital on the interest rate swaps is 4.06%, including all ancillary fees

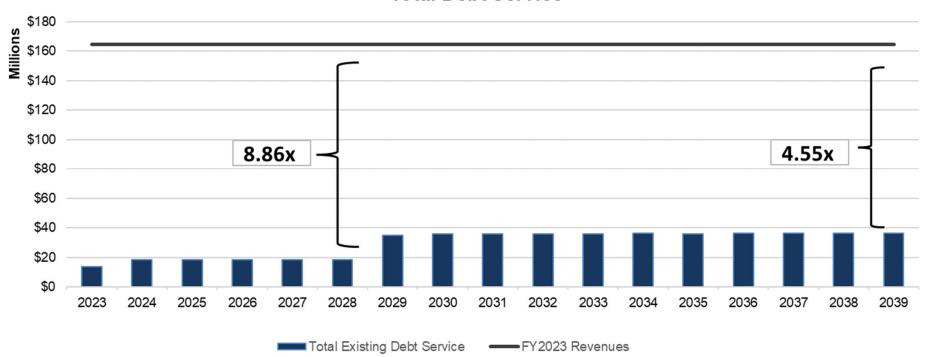
Total Cost of Interest Rate Swap						
STA Pays						
Swap Fixed Rate	3.71%					
Fees to Remarketing Agents	0.06%					
Fees to Liquidity Providers	0.37%					
Positive STA Bond/Swap Differential	(0.10%)					
All in Cost:	4.06%					



### **Debt Service Coverage Ratio**

- Annual Debt Service ranges from \$13.7 million in FY2023-28 to \$36.1 million in FY2029-39
- Annual Debt Service (DS) Coverage (with FY2022 budgeted revenues = \$164.4 million)
  - Annual DS coverage through 2028: 8.86x
  - Maximum Annual DS coverage: 4.55x

#### **Total Debt Service**





3. Potential Swap Refunding



#### Potential Refunding of Interest Rate Swaps and Variable Rate Bonds

- Issue fixed rate bonds to:
  - Refund \$318.3 million of variable rate bonds
  - Pay for \$34 million termination cost of eliminating the interest rate swaps
  - Secure call option on the new bonds to refinance in 2033 for potential debt service savings

#### Pros

- Eliminates all variable rate bonds and interest rate swaps
- Simplifies portfolio and reduces risk
- Provides flexibility to refund fixed rate bonds in 2033 for potential future savings
- Eliminates any uncertainty with upcoming (June 2023) LIBOR index transition

#### Cons

- Current rates increase total debt service costs by \$12.6 million (NPV) through 2039: 3% increase
- Would reduce funding available for the Five-Year Capital Improvement Program



### **Swap Termination & Refunding Results**

- Refunding all of the variable rate bonds and terminating the interest rate swaps by issuing new fixed rate bonds would increase debt service by \$14 million through 2039: a 3% increase in debt service through 2039
- The new bonds could be refunded in 2033 with the potential for savings at that time

Date	Prior Debt Sevice	Refunding Debt Service	Gross Savings	NPV Savings
6/30/2024	9,618,860.96	11,385,533.33	(1,766,672.37)	(1,760,356.57)
6/30/2025	12,920,858.00	15,294,000.00	(2,373,142.00)	(2,269,209.71)
6/30/2026	12,920,858.00	15,294,000.00	(2,373,142.00)	(2,202,176.92)
6/30/2027	12,920,858.00	15,294,000.00	(2,373,142.00)	(2,137,124.29)
6/30/2028	12,920,858.00	15,294,000.00	(2,373,142.00)	(2,073,993.32)
6/30/2029	34,670,272.00	35,003,625.00	(333,353.00)	(270,454.16)
6/30/2030	35,826,477.00	36,142,750.00	(316,273.00)	(249,131.78)
6/30/2031	36,015,703.00	36,323,375.00	(307,672.00)	(235,764.59)
6/30/2032	35,862,306.00	36,164,250.00	(301,944.00)	(225,307.71)
6/30/2033	35,966,286.00	36,259,500.00	(293,214.00)	(213,099.24)
6/30/2034	36,021,554.00	36,300,875.00	(279,321.00)	(197,730.38)
6/30/2035	36,028,110.00	36,297,375.00	(269,265.00)	(185,938.07)
6/30/2036	36,279,865.00	36,535,375.00	(255,510.00)	(172,239.60)
6/30/2037	35,882,908.00	36,131,125.00	(248,217.00)	(163,639.57)
6/30/2038	36,331,150.00	36,561,000.00	(229,850.00)	(148,321.78)
6/30/2039	36,118,502.00	36,336,250.00	(217,748.00)	(137,858.80)
Total	\$456,305,425.96	\$470,617,033.33	(\$14,311,607.37)	(\$12,642,346.49)



## **Future Bonds Refunding**

- If STA refunds the callable future bonds in 2033, the debt service savings is \$15.5 million (net present value)
  - Future rate assumption: The 20-year average of tax-exempt rates
- Net overall savings of \$2.8 million from the 2023 potential issuance

Date	Prior Debt Sevice	Refunding Debt Service	Gross Savings	NPV Savings
6/20/2034	4,023,375.00		4,023,375.00	3,991,406.54
6/20/2035	36,297,375.00	33,891,750.00	2,405,625.00	2,365,843.47
6/20/2036	36,535,375.00	34,129,875.00	2,405,500.00	2,328,663.93
6/20/2037	36,131,125.00	33,724,250.00	2,406,875.00	2,293,518.42
6/20/2038	36,561,000.00	34,158,000.00	2,403,000.00	2,253,996.24
6/20/2039	36,336,250.00	33,932,625.00	2,403,625.00	2,219,326.64
Total	\$185,884,500.00	\$169,836,500.00	\$16,048,000.00	\$15,452,755.24



## Future Bonds Refunding – Breakeven Even Analysis

- Rates would need be +50bps (0.50%) above their 20-year average in order to stay above (\$12.6) million in debt service savings and breakeven compared to today's increase in debt service costs
- 2033 rates equivalent to the 20-year average + 0.50% = \$12.9 million in debt service savings through 2039

Date	Prior Debt Sevice	Refunding Debt Service	Gross Savings	NPV Savings
6/20/2034	4,023,375.00		4,023,375.00	3,981,593.22
6/20/2035	36,297,375.00	34,396,500.00	1,900,875.00	1,859,847.93
6/20/2036	36,535,375.00	34,635,750.00	1,899,625.00	1,820,618.63
6/20/2037	36,131,125.00	34,233,250.00	1,897,875.00	1,781,766.31
6/20/2038	36,561,000.00	34,659,125.00	1,901,875.00	1,749,053.07
6/20/2039	36,336,250.00	34,434,875.00	1,901,375.00	1,712,898.13
Total	\$185,884,500.00	\$172,359,500.00	\$13,525,000.00	\$12,905,777.29



## 4. Next Steps



### **Next Steps**

- Staff is looking for direction on bond refunding
- Should the Board provide that direction, staff would move forward with the following:
  - STA would release a Request for Proposals to select an underwriting team
  - STA and financing team would prepare bond refunding documents
  - Staff would then come back to the STA Governing Board to approve the following action:
    - Refunding of the 2009C, 2014A, AND 2015A series bonds from variable rate to fixed rate
    - Termination of the existing swap agreements and all other agreements needed to support variable rate bonds



## Appendix

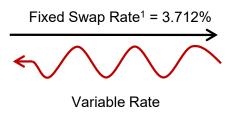


### **Interest Rate Swap Overview**

- An interest rate swap is <u>a contract</u> between two counterparties to exchange interest rate payments over time.
- Purpose: the swap contract locks in the fixed rate.

#### **SWAP CONTRACT**





#### **Bank Counterparties**

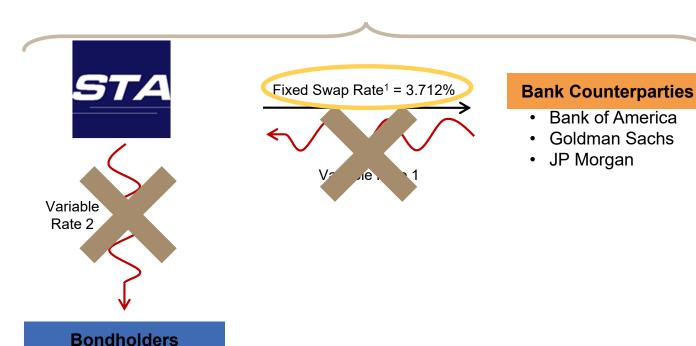
- Bank of America
- Goldman Sachs
- JP Morgan



### **Interest Rate Swap Overview**

- The swap locks in the rate the variable rate bonds raise funds for projects
- To the extent that *variable-rate-1* = *variable-rate-2* (i.e., inflows equal outflows) STA's net payment is the fixed swap rate

#### **SWAP CONTRACT**



# STA Variable Rate Bonds

# Thank You

