99 Detering Street Suite 120 Houston, Texas 77007 Telephone 713 522 8527

www.thearbitragegroup.com

November 24, 2020

Ms. Na'Son S. White Comptroller Madison County 146 West Center Street Canton, Mississippi 39046

#### \$8,000,000 Madison County, Mississippi General Obligation Road and Bridge Bonds Series 2017

Interim Rebate Calculation For the Period September 28, 2017 to October 1, 2020

Dear Ms. White:

Attached please find a copy of our rebate report for the above noted bonds along with our agreed-upon invoice. The report indicates there is no rebate liability as of the October 1, 2020 Interim Rebate Computation Date. Based upon the report and underlying assumptions, no IRS payment or filing is otherwise currently required.

If you have any questions or comments, please do not hesitate to contact me at (713) 522-8527. It has been our pleasure working with your team and we look forward to being of service again in the very near future regarding any other arbitrage rebate compliance or verification service needs.

Very truly yours, The Arbitrage Group, Inc.

Jy newill

H. Troy Merrill

Partner



\$8,000,000 Madison County, Mississippi General Obligation Road and Bridge Bonds Series 2017

> Rebate Computation for the Period September 28, 2017 to October 1, 2020



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November 24, 2020

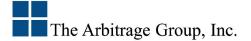
Madison County Canton, Mississippi

# \$8,000,000 Madison County, Mississippi General Obligation Road and Bridge Bonds Series 2017

Madison County, Mississippi (the "County") issued the above referenced bonds (the "Bonds") dated and delivered on September 28, 2017. At the request of the County, we have performed the procedures enumerated below for the period September 28, 2017 to October 1, 2020 (the "Computation Period"). These procedures, which were agreed to by the County, were performed solely to assist the County in evaluating compliance with the requirements of Section 148(f)(2) of the Internal Revenue Code of 1986, as amended (the "Code"). This engagement was performed in accordance with standards established by the American Institute of Certified Public Accountants for consulting services. The sufficiency of these procedures is solely the responsibility of the specified users of the report. This report is intended solely for your information and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes. This report is not to be quoted or referred to without our prior written consent.

#### Our procedures and findings are as follows:

- (1) We read the Certificate as to Non-Arbitrage, excerpts from the Official Statement, and the General Ledger Account Detail Schedules provided to us by the County.
- (2) A schedule of the sources and uses of funds (Exhibit A) was assembled based on the Certificate as to Non-Arbitrage.
- (3) A schedule of the debt service requirements of the Bonds to scheduled maturity (Exhibit B-2) was assembled based on the Official Statement.
- (4) The yield on the Bonds was computed to be the discount rate that causes the present value of all principal and interest payments on the Bonds to equal the Issue Price to the Public assuming certain early redemptions as detailed in Item (6) of Exhibit E. The yield on the Bonds assuming certain early redemptions was computed to be 2.279259% (Exhibit B-1).



Madison County, Mississippi November 24, 2020 Page 2

- (5) A schedule of actual earnings on the nonpurpose investments in the Construction Fund purchased with gross proceeds of the Bonds during the Computation Period (Exhibit C) was assembled based on the General Ledger Account Detail Schedules.
- (6) The allowable earnings amount on the nonpurpose investments in the Construction Fund was calculated to be the amount that the nonpurpose investments in the Construction Fund would have earned if they had been invested at a rate equal to the yield on the Bonds assuming certain early redemptions of 2.279259% (Exhibit C).
- (7) The arbitrage earnings amount during the Computation Period for the Construction Fund was calculated to be the difference between the actual earnings and allowable earnings for the nonpurpose investments in the Construction Fund. The arbitrage earnings amount is as follows:

Trust Fund	Exhibit	Arbitrage Earnings
Construction Fund	C	(\$180,666.65)
Less Computation Date Credit	D	(7,095.96)
Total Arbitrage Earnings		(\$187,762.61)

- (8) The assumptions and computational information employed in the above calculations are explained in Exhibit E.
- (9) Based on the information provided by the County and the assumptions employed, this report reflects that there was no rebate liability due for the Bonds as of the October 1, 2020 Interim Rebate Computation Date.

Because the above procedures do not constitute an audit conducted in accordance with generally accepted auditing standards, we do not express an opinion on any of the information referred to above. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you. The terms of our engagement are such that we have no obligation to update this report because of events and transactions occurring subsequent to the date of this report.

Very truly yours,

The arlitrage Croye, Onc.

#### **Exhibits**

- A. Sources and Uses of Funds
- B. Computation of Yield on the Bonds
  - B-1. Proof of Yield on the Bonds Assuming Certain Early Redemptions
  - B-2. Debt Service Requirements of the Bonds to Scheduled Maturity
  - B-3. Computation of Net Original Issue Premium
- C. Computation of Arbitrage Earnings on the Construction Fund
- D. Computation Date Credit
- E. Assumptions and Computational Information

#### Sources and Uses of Funds

\$8,000,000 Madison County, Mississippi General Obligation Road and Bridge Bonds Series 2017

#### **SOURCES**

Principal Amount of the Bonds
Net Original Issue Premium

170,389.95

\$8,170,389.95

USES

Deposit to Construction Fund
Costs of Issuance
Underwriter's Discount

\$7,944,671.20
175,000.00 \*
50,718.75 \*

<sup>\*</sup> These amounts were assumed to have been spent at closing and/or never invested as represented in the Certificate as to Non-Arbitrage and/or by the County.

Present Value

## Proof of Yield on the Bonds Assuming Certain Early Redemptions

	\$8,000,000 Serial Bonds			Debt Service Requirements	of Future Payments at 09/28/17 Using	
Date	Principal	Coupon Rate	Interest	of the Bonds	a Rate of 2.279259%	
10/01/18	\$300,000.00	2.125%	\$192,995.00	\$492,995.00	\$481,856.56	
04/01/19			92,512.50	92,512.50	89,403.46	
10/01/19	305,000.00	2.125%	92,512.50	397,512.50	379,824.81	
04/01/20			89,271.88	89,271.88	84,338.50	
10/01/20	315,000.00	2.125%	89,271.88	404,271.88	377,627.28	
04/01/21			85,925.00	85,925.00	79,357.51	
10/01/21	325,000.00	2.125%	85,925.00	410,925.00	375,240.47	
04/01/22			82,471.88	82,471.88	74,461.48	
10/01/22	335,000.00	2.125%	82,471.88	417,471.88	372,676.17	
04/01/23			78,912.50	78,912.50	69,651.24	
10/01/23	345,000.00	2.125%	78,912.50	423,912.50	369,945.63	
04/01/24			75,246.88	75,246.88	64,927.52	
10/01/24	355,000.00	2.125%	75,246.88	430,246.88	367,059.68	
04/01/25			71,475.00	71,475.00	60,290.90	
10/01/25	365,000.00	2.125%	71,475.00	436,475.00	364,028.69	
04/01/26			67,596.88	67,596.88	55,741.87	
10/01/26	380,000.00	2.125%	67,596.88	447,596.88	364,939.25	
04/01/27			63,559.38	63,559.38	51,237.96	
10/01/27	880,000.00**	*	63,559.38	943,559.38	752,073.07	
04/01/28			52,065.63	52,065.63	41,031.80	
10/01/28	400,000.00	2.125%	52,065.63	452,065.63	352,248.84	
04/01/29			47,815.63	47,815.63	36,838.05	
10/01/29	410,000.00	2.125%	47,815.63	457,815.63	348,735.36	
04/01/30			43,459.38	43,459.38	32,731.62	
10/01/30	425,000.00	2.125%	43,459.38	468,459.38	348,846.68	
04/01/31			38,943.75	38,943.75	28,673.39	
10/01/31	440,000.00	2.250%	38,943.75	478,943.75	348,661.86	
04/01/32			33,993.75	33,993.75	24,467.95	
10/01/32	450,000.00	2.500%	33,993.75	483,993.75	344,442.69	

## Proof of Yield on the Bonds Assuming Certain Early Redemptions

	\$8,000	,000 Serial	Bonds	Debt Service	Present Value of Future Payments at
Date	Principal	Coupon Rate	Interest	Requirements of the Bonds	09/28/17 Using a Rate of 2.279259%
04/01/33			28,368.75	28,368.75	19,961.63
10/01/33	465,000.00	2.750%	28,368.75	493,368.75	343,246.51
04/01/34			21,975.00	21,975.00	15,116.18
10/01/34	480,000.00	2.750%	21,975.00	501,975.00	341,408.14
04/01/35			15,375.00	15,375.00	10,339.17
10/01/35			15,375.00	15,375.00	10,222.67
04/01/36			15,375.00	15,375.00	10,107.48
10/01/36	505,000.00	3.000%	15,375.00	520,375.00	338,238.29
04/01/37			7,800.00	7,800.00	5,012.79
10/01/37	520,000.00	3.000%	7,800.00	527,800.00	335,376.80
	\$8,000,000.00	-	\$2,217,282.58	\$10,217,282.58	\$8,170,389.95
			Principal Amou Net Original Iss		\$8,000,000.00 170,389.95
					\$8,170,389.95

<sup>\*</sup> Principal amounts and interest rates are as shown on Exhibit B-3.

<sup>\*\*</sup> Assumes certain early redemptions as detailed in Item (6) of Exhibit E.

# Debt Service Requirements of the Bonds to Scheduled Maturity

	\$8,000	Debt Service		
Date	Principal	Coupon Rate	Interest	Requirements of the Bonds
10/01/18	\$300,000.00	2.125%	\$192,995.00	\$492,995.00
04/01/19	+,	_,,	92,512.50	92,512.50
10/01/19	305,000.00	2.125%	92,512.50	397,512.50
04/01/20	,		89,271.88	89,271.88
10/01/20	315,000.00	2.125%	89,271.88	404,271.88
04/01/21	,		85,925.00	85,925.00
10/01/21	325,000.00	2.125%	85,925.00	410,925.00
04/01/22			82,471.88	82,471.88
10/01/22	335,000.00	2.125%	82,471.88	417,471.88
04/01/23			78,912.50	78,912.50
10/01/23	345,000.00	2.125%	78,912.50	423,912.50
04/01/24			75,246.88	75,246.88
10/01/24	355,000.00	2.125%	75,246.88	430,246.88
04/01/25			71,475.00	71,475.00
10/01/25	365,000.00	2.125%	71,475.00	436,475.00
04/01/26			67,596.88	67,596.88
10/01/26	380,000.00	2.125%	67,596.88	447,596.88
04/01/27			63,559.38	63,559.38
10/01/27	390,000.00	2.125%	63,559.38	453,559.38
04/01/28			59,415.63	59,415.63
10/01/28	400,000.00	2.125%	59,415.63	459,415.63
04/01/29			55,165.63	55,165.63
10/01/29	410,000.00	2.125%	55,165.63	465,165.63
04/01/30			50,809.38	50,809.38
10/01/30	425,000.00	2.125%	50,809.38	475,809.38
04/01/31			46,293.75	46,293.75
10/01/31	440,000.00	2.250%	46,293.75	486,293.75
04/01/32			41,343.75	41,343.75
10/01/32	450,000.00	2.500%	41,343.75	491,343.75
04/01/33			35,718.75	35,718.75
10/01/33	465,000.00	2.750%	35,718.75	500,718.75

# Debt Service Requirements of the Bonds to Scheduled Maturity

	\$8,000	Debt Service		
Date	Principal	Coupon Rate	Interest	Requirements of the Bonds
04/01/34			29,325.00	29,325.00
10/01/34	480,000.00	2.750%	29,325.00	509,325.00
04/01/35			22,725.00	22,725.00
10/01/35	490,000.00	3.000%	22,725.00	512,725.00
04/01/36			15,375.00	15,375.00
10/01/36	505,000.00	3.000%	15,375.00	520,375.00
04/01/37			7,800.00	7,800.00
10/01/37	520,000.00	3.000%	7,800.00	527,800.00
	\$8,000,000.00		\$2,334,882.58	\$10,334,882.58

### Computation of Net Original Issue Premium

Date	Principal	Coupon Rate	Yield	Price	Purchase Price	Accrued Interest	Original Issue Premium(Discount)
10/01/18	\$300,000.00	2.125%	0.850%	101.277%	\$303,831.00	\$0.00	\$3,831.00
10/01/19	305,000.00	2.125%	0.950%	102.331%	312,109.55	0.00	7,109.55
10/01/20	315,000.00	2.125%	1.050%	103.175%	325,001.25	0.00	10,001.25
10/01/21	325,000.00	2.125%	1.150%	103.808%	337,376.00	0.00	12,376.00
10/01/22	335,000.00	2.125%	1.300%	103.987%	348,356.45	0.00	13,356.45
10/01/23	345,000.00	2.125%	1.400%	104.163%	359,362.35	0.00	14,362.35
10/01/24	355,000.00	2.125%	1.550%	103.804%	368,504.20	0.00	13,504.20
10/01/25	365,000.00	2.125%	1.650%	103.549%	377,953.85	0.00	12,953.85
10/01/26	380,000.00	2.125%	1.750%	103.112%	391,825.60	0.00	11,825.60
10/01/27	390,000.00	2.125%	1.850%	102.501%	399,753.90	0.00	9,753.90
10/01/28	400,000.00	2.125%	2.000% *	101.128% *	404,512.00	0.00	4,512.00
10/01/29	410,000.00	2.125%	2.050% *	100.675% *	412,767.50	0.00	2,767.50
10/01/30	425,000.00	2.125%	2.150%	99.717%	423,797.25	0.00	(1,202.75)
10/01/31	440,000.00	2.250%	2.250%	100.000%	440,000.00	0.00	0.00
10/01/32	450,000.00	2.500%	2.350% *	101.330% *	455,985.00	0.00	5,985.00
10/01/33	465,000.00	2.750%	2.500% *	102.201% *	475,234.65	0.00	10,234.65
10/01/34	480,000.00	2.750%	2.600% *	101.314% *	486,307.20	0.00	6,307.20
10/01/35	490,000.00	3.000%	2.650% *	103.059% *	504,989.10	0.00	14,989.10
10/01/36	505,000.00	3.000%	2.750% *	102.174% *	515,978.70	0.00	10,978.70
10/01/37	520,000.00	3.000%	2.850% *	101.297% *	526,744.40	0.00	6,744.40
	\$8,000,000.00				\$8,170,389.95	\$0.00	\$170,389.95

<sup>\*</sup> Pursuant to the Official Statement, Yield/Price to October 1, 2027 call date.

Future Value of

# Computation of Arbitrage Earnings on the Construction Fund

		Actual Earnings		Total Nonpurpose	Total Nonpurpose Investment Activity at 10/01/20 Using a
	Principal		Gain	Investment	Bond Yield of
Date	Amounts	Interest	(Loss)	Activity	2.279259%
09/28/17	(\$7,944,671.20)	\$0.00	\$0.00	(\$7,944,671.20)	(\$8,505,230.75)
12/04/17	93,021.56	0.00	0.00	93,021.56	99,172.05
12/19/17	471,514.05	0.00	0.00	471,514.05	502,215.60
01/17/18	272,255.40	0.00	0.00	272,255.40	289,471.97
01/22/18	102,746.20	0.00	0.00	102,746.20	109,209.16
02/05/18	155,976.56	0.00	0.00	155,976.56	165,652.20
02/20/18	415,948.45	0.00	0.00	415,948.45	441,333.89
03/05/18	349,098.02	0.00	0.00	349,098.02	370,053.94
03/20/18	459,470.72	0.00	0.00	459,470.72	486,592.46
04/02/18	406,373.10	0.00	0.00	406,373.10	430,035.59
04/17/18	148,706.20	0.00	0.00	148,706.20	157,216.60
05/07/18	443,882.05	0.00	0.00	443,882.05	468,694.76
05/22/18	65,951.62	0.00	0.00	65,951.62	69,572.54
05/25/18	13,740.48	0.00	0.00	13,740.48	14,492.13
06/04/18	6,921.00	0.00	0.00	6,921.00	7,295.46
06/19/18	415,291.24	0.00	0.00	415,291.24	437,347.82
07/02/18	58,420.17	0.00	0.00	58,420.17	61,472.60
07/31/18	(8,610.68)	8,610.68	0.00	0.00	0.00
08/06/18	158,986.91	0.00	0.00	158,986.91	166,936.21
08/21/18	88,920.00	0.00	0.00	88,920.00	93,277.84
08/27/18	53,773.33	0.00	0.00	53,773.33	56,387.38
09/04/18	126,376.74	0.00	0.00	126,376.74	132,461.84
09/18/18	16,486.96	0.00	0.00	16,486.96	17,265.59
09/28/18	445,646.83	0.00	0.00	445,646.83	466,399.71
09/30/18	(1,881.78)	1,881.78	0.00	0.00	0.00
11/05/18	332,019.46	0.00	0.00	332,019.46	346,672.49
11/20/18	40,168.90	0.00	0.00	40,168.90	41,902.08
12/03/18	69,597.75	0.00	0.00	69,597.75	72,541.32
12/19/18	11,768.22	0.00	0.00	11,768.22	12,253.59
12/27/18	4,745.00	0.00	0.00	4,745.00	4,938.21
01/07/19	5,560.00	0.00	0.00	5,560.00	5,782.76
01/15/19	(5,560.00)	0.00	0.00	(5,560.00)	(5,779.85)
01/23/19	41,811.70	0.00	0.00	41,811.70	43,443.12

## Computation of Arbitrage Earnings on the Construction Fund

		Actual Ear	nings	Total	Future Value of Total Nonpurpose Investment Activity at
Date	Principal Amounts	Interest	Gain (Loss)	Nonpurpose Investment Activity	10/01/20 Using a Bond Yield of 2.279259%
01/31/19	(1,183.54)	1,183.54	0.00	0.00	0.00
02/06/19	15,497.00	0.00	0.00	15,497.00	16,088.49
02/20/19	53,701.90	0.00	0.00	53,701.90	55,702.50
03/04/19	14,218.15	0.00	0.00	14,218.15	14,734.83
03/19/19	161.10	0.00	0.00	161.10	166.79
04/01/19	115,893.52	0.00	0.00	115,893.52	119,901.11
04/16/19	59,050.50	0.00	0.00	59,050.50	61,034.80
05/06/19	40,903.02	0.00	0.00	40,903.02	42,224.30
06/18/19	110,440.75	0.00	0.00	110,440.75	113,707.25
07/17/19	222,390.80	0.00	0.00	222,390.80	228,550.80
08/05/19	89,707.31	0.00	0.00	89,707.31	92,087.70
08/19/19	45,354.87	0.00	0.00	45,354.87	46,517.34
08/21/19	24,942.50	0.00	0.00	24,942.50	25,578.57
09/03/19	374,239.66	0.00	0.00	374,239.66	383,493.55
09/12/19	(1,710.91)	1,710.91	0.00	0.00	0.00
09/17/19	739,755.35	0.00	0.00	739,755.35	757,379.60
09/23/19	(1,995.89)	1,995.89	0.00	0.00	0.00
09/30/19	746,585.54	0.00	0.00	746,585.54	763,747.20
03/02/20	37,593.41	1,230.60	0.00	38,824.01	39,338.21
10/01/20	0.00	0.00	0.00	(16,613.40)	(16,613.40)
	\$0.00	\$16,613.40	\$0.00	\$0.00	(\$197,280.05)
		Actual Earni	ngs		\$16,613.40
		Allowable E			(197,280.05)
		Arbitrage Ea	rnings		(\$180,666.65)

### Computation Date Credit

		Future Value of
		Annual
		Computation Credit
		Amounts at
	Annual	10/01/20 Using a
	Computation	Bond Yield of
Date	Credit	2.279259%
10/01/17	(\$1,670.00)	(\$1,787.49)
10/01/18	(1,700.00)	(1,778.82)
10/01/19	(1,730.00)	(1,769.65)
10/01/20	(1,760.00)	(1,760.00)
	(\$6,860.00)	(\$7,095.96)
Computati	on Date Credit	(\$7,095.96)

### Assumptions and Computational Information

- (1) Pursuant to Section 8.2 of the Certificate as to Non-Arbitrage, the Bonds represented a single bond issue for arbitrage rebate and bond yield calculation purposes.
- (2) Pursuant to Section 5.1 of the Certificate as to Non-Arbitrage, the County selected the one year period (or shorter period from the date of issue of the Bonds) ending October 1 as the bond year for the purposes of calculating arbitrage rebate. Consequently, October 1, 2021 (the end of the 5th Bond Year) will represent the first Rebate Installment Computation Date for the Bonds.
- (3) As represented by the County, the Bonds have not been refunded.
- (4) The amounts denoted by an " \* " on the Sources and Uses of Funds (Exhibit A) were spent at closing and/or never invested as represented in the Certificate as to Non-Arbitrage and/or the County. Consequently, no investment activity was included in the computation for these amounts.
- (5) Present value and future value computations were made on the basis of a 30/360 day year and semiannual compounding.
- (6) Pursuant to Section 1.148-4(b)(3) of the Regulations, for purposes of computing the yield on the Bonds, if a fixed yield bond is subject to optional early redemption and is described in paragraph (b)(3)(ii) of this section, the yield on the issue containing the bond is computed by treating the bond as redeemed at its stated redemption price on the optional redemption date that would produce the lowest yield on the issue. The premium bonds maturing October 1, 2035 represent callable premium bonds described in paragraph (b)(3)(ii) of this section. The lowest yield on the issue resulted by treating these bonds as optionally redeemed at 100% of par on their earliest redemption date on October 1, 2027.
- (7) As represented by the County, no fees were received or paid to commence or terminate a Guaranteed Investment Contract, Investment Agreement, Forward Purchase Agreement, or similar type investment. Consequently, no such fees or payments were included in the computation.
- (8) As represented by the County, the only funds which were funded and contained gross proceeds of the Bonds during the Computation Period were the Construction Fund and Bond Fund (the "Trust Funds").
- (9) The transaction amounts in the Principal Amounts, Interest, and Gain (Loss) columns shown in Exhibit C for each date represent the net transaction activity for that date. Net investment and interest purchases are denoted by parentheses. The Gain (Loss) columns represent the net gains and losses, if any, on investments purchased and/or sold at discounts and premiums.
- (10) It was assumed the purchase price of each investment was at fair market value, did not include brokerage or other acquisition fees, and represented an arm's length transaction which did not reduce the rebate amount to be paid to the United States.
- (11) All amounts withdrawn from the Trust Funds were assumed to be spent for the purpose of the bond issue on the day they were withdrawn.

### Assumptions and Computational Information

- (12) The Bond Fund was excluded from the computation pursuant to Section 148(f)(4)(A)(ii) of the Code which excludes from the rebate computation bona fide debt service funds as defined in Section 1.148-1(b) of the Regulations. Section 4.3 of the Certificate as to Non-Arbitrage indicates the Bond Fund is intended to function as a bona fide debt service fund. Trust Statements for the Bond Fund were not provided for our review
- (13) Pursuant to Section 1.148-3(d)(1)(iv) of the Regulations, on the last day of each bond year during which there are amounts allocated to gross proceeds of an issue that are subject to the rebate requirements, and on the final maturity date, a computation credit is allowed as a payment. The payment amount is future valued from the last day of each bond year to the Computation Date at a rate equal to the yield on the Bonds (Exhibit D).