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# MICHIGAN CITY SANITARY DISTRICT Michigan City, Indiana

# Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

Preliminary Sewer User Charge Report

February 11, 2020



#### MICHIGAN CITY SANITARY DISTRICT Michigan City, Indiana

#### Town of Long Beach – Lake Shore Drive Sanitary Sewer Project Preliminary Sewer User Charge Report

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Michigan City, Indiana

Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

#### INTRODUCTION

Pursuant to our engagement by the Board of Commissions of the Michigan City Sanitary District (the "District"), we have made a study and analysis of the operating and financial reports, budgets and other data pertaining to the Town of Long Beach – Lake Shore Drive Sanitary Sewer Project. The results of our analysis are contained in the attached Sewer User Charge Report (Report) which is attached.

The purpose of this study was to determine the sewer user charge rates and charges necessary to meet the revenue requirements of operations, maintenance, and to make debt service payments on the proposed Town of Long Beach – Lake Shore Drive Sanitary Sewer Project.

This Report is based on data obtained from information provided by Haas & Associates, Inc., Consulting Engineer, and information provided by the Indiana Finance Authority - State Revolving Loan department. We have calculated the local capital charges assuming the sanitary sewer pipes are eligible for a 35 year, SRF Loan at 2.3% and the lift stations can be financed over the standard 20 years, SRF Loan at 2%.

In the course of preparing this Report, we have not conducted an audit of any financial or supplemental data used in the accompanying exhibits and schedules. We have made certain projections of revenues and expenses, based on management's representations and estimates, which may vary from actual results and such variances, may be material.

Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

## Schedule of Estimated Equivalent Dwelling Units

#### For Assumed SRF Financing

		Annual
	Estimated	Equivalent
	<u>Number</u>	<u>Units</u>
North Side Residences - 100% Mandatory	140	1,680
South Side Residences - 44% yes & 1% Maybe	68	816
Total	208	2,496
Total Residences on Lake Shore Drive	290	3,480

Note: The above was provided by Haas & Associates, Inc., consulting engineers.

Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

#### Schedule of Estimated Sources & Uses of Funds

#### For Assumed SRF Financing

Sources of Funds	Sewer Mains <u>Series 2020-A</u>	Lift Stations <u>Series 2020-B</u>	Combined <u>Total</u>
SRF Revenue Bonds	\$ 5,110,000	\$ 2,200,000	\$ 7,310,000
Total Sources of Funds	\$ 5,110,000	\$ 2,200,000	\$ 7,310,000
Uses of Funds	Sewer Mains <u>Series 2020-A</u>	Lift Stations <u>Series 2020-B</u>	Combined <u>Total</u>
<ul> <li>A. New Sewer Mains</li> <li>B. New Sanitary Sewer Laterals</li> <li>C. New Wastewater Lift Stations</li> <li>D. Milling and Resurfacing of Street Pave</li> <li>MCSD Lift Sanitary Improvements (Alt. 3)</li> <li>Subtotal</li> </ul>	\$ 2,319,400 1,041,800 160,200 152,000 3,673,400	\$ 956,900 - 637,000 1,593,900	\$ 2,319,400 1,041,800 1,117,100 152,000 637,000 5,267,300
Construction Related Constractor Costs Construction Contingency Bond Issuance Costs Associate Project Costs Capitalized Interest During Construction	231,000 346,990 84,000 610,400 156,707	99,000 148,710 36,000 261,600 58,667	330,000 495,700 120,000 872,000 215,374
Subtotal Rounding Total Uses of Funds	5,102,497 7,503 \$ 5,110,000	2,197,877 2,123 \$ 2,200,000	7,300,374 9,626 \$ 7,310,000

Town of Long Beach - Lake Shore Drive Sanitary Sewer Project Proposed Sewage Works Revenue Bonds, Series 2020A \$5.110 M

# **Debt Service Schedule**

Part 1 of 2

Fiscal Total	Total P+I	Interest	Coupon	Principal	Date
-	-	-	-	-	09/15/2020
39,176.67 (	39,176.67	39,176.67	-	-	01/15/2021
-	58,765.00	58,765.00	-	-	07/15/2021
117,530.00 (	58,765.00	58,765.00	-	-	01/15/2022
-	108,765.00	58,765.00	2.300%	50,000.00	07/15/2022
216,955.00	108,190.00	58,190.00	2.300%	50,000.00	01/15/2023
-	107,615.00	57,615.00	2.300%	50,000.00	07/15/2023
214,655.00	107,040.00	57,040.00	2.300%	50,000.00	01/15/2024
-	106,465.00	56,465.00	2.300%	50,000.00	07/15/2024
212,355.00	105,890.00	55,890.00	2.300%	50,000.00	01/15/2025
-	105,315.00	55,315.00	2.300%	50,000.00	07/15/2025
210,055.00	104,740.00	54,740.00	2.300%	50,000.00	01/15/2026
-	104,165.00	54,165.00	2.300%	50,000.00	07/15/2026
212,755.00	108,590.00	53,590.00	2.300%	55,000.00	01/15/2027
-	107,957.50	52,957.50	2.300%	55,000.00	07/15/2027
215,282.50	107,325.00	52,325.00	2.300%	55,000.00	01/15/2028
-	106,692.50	51,692.50	2.300%	55,000.00	07/15/2028
212,752.50	106,060.00	51,060.00	2.300%	55,000.00	01/15/2029
-	105,427.50	50,427.50	2.300%	55,000.00	07/15/2029
210,222.50	104,795.00	49,795.00	2.300%	55,000.00	01/15/2030
-	109,162.50	49,162.50	2.300%	60,000.00	07/15/2030
217,635.00	108,472.50	48,472.50	2.300%	60,000.00	01/15/2031
-	107,782.50	47,782.50	2.300%	60,000.00	07/15/2031
214,875.00	107,092.50	47,092.50	2.300%	60,000.00	01/15/2032
-	106,402.50	46,402.50	2.300%	60,000.00	07/15/2032
212,115.00	105,712.50	45,712.50	2.300%	60,000.00	01/15/2033
-	105,022.50	45,022.50	2.300%	60,000.00	07/15/2033
209,355.00	104,332.50	44,332.50	2.300%	60,000.00	01/15/2034
-	108,642.50	43,642.50	2.300%	65,000.00	07/15/2034
216,537.50	107,895.00	42,895.00	2.300%	65,000.00	01/15/2035
	107,147.50	42,147.50	2.300%	65,000.00	07/15/2035
213,547.50	106,400.00	41,400.00	2.300%	65,000.00	01/15/2036
-	105,652.50	40,652.50	2.300%	65,000.00	07/15/2036
210,557.50	104,905.00	39,905.00	2.300%	65,000.00	01/15/2037
-	109,157.50	39,157.50	2.300%	70,000.00	07/15/2037
217,510.00	108,352.50	38,352.50	2.300%	70,000.00	01/15/2038
-	107,547.50	37,547.50	2.300%	70,000.00	07/15/2038
214,290.00	106,742.50	36,742.50	2.300%	70,000.00	01/15/2039
-	105,937.50	35,937.50	2.300%	70,000.00	07/15/2039
211,070.00	105,132.50	35,132.50	2.300%	70,000.00	01/15/2040
	104,327.50	34,327.50	2.300%	70,000.00	07/15/2040
212,850.00	108,522.50	33,522.50	2.300%	75,000.00	01/15/2041
, ,	107,660.00	32,660.00	2.300%	75,000.00	07/15/2041

(1) Capitalized Interest during contruction to be paid out of bond proceeds.

Long Beach Sewer Rev SRF | SINGLE PURPOSE | 1/16/2020 | 5:21 PM

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Town of Long Beach - Lake Shore Drive Sanitary Sewer Project Proposed Sewage Works Revenue Bonds, Series 2020A \$5.110 M

# **Debt Service Schedule**

Part 2 of 2

Fiscal Total	Total P+I	Interest	Coupon	Principal	Date
214,457.50	106,797.50	31,797.50	2.300%	75,000.00	01/15/2042
-	105,935.00	30,935.00	2.300%	75,000.00	07/15/2042
211,007.50	105,072.50	30,072.50	2.300%	75,000.00	01/15/2043
-	104,210.00	29,210.00	2.300%	75,000.00	07/15/2043
212,557.50	108,347.50	28,347.50	2.300%	80,000.00	01/15/2044
-	107,427.50	27,427.50	2.300%	80,000.00	07/15/2044
213,935.00	106,507.50	26,507.50	2.300%	80,000.00	01/15/2045
-	105,587.50	25,587.50	2.300%	80,000.00	07/15/2045
210,255.00	104,667.50	24,667.50	2.300%	80,000.00	01/15/2046
-	108,747.50	23,747.50	2.300%	85,000.00	07/15/2046
216,517.50	107,770.00	22,770.00	2.300%	85,000.00	01/15/2047
-	106,792.50	21,792.50	2.300%	85,000.00	07/15/2047
212,607.50	105,815.00	20,815.00	2.300%	85,000.00	01/15/2048
-	104,837.50	19,837.50	2.300%	85,000.00	07/15/2048
213,697.50	108,860.00	18,860.00	2.300%	90,000.00	01/15/2049
-	107,825.00	17,825.00	2.300%	90,000.00	07/15/2049
214,615.00	106,790.00	16,790.00	2.300%	90,000.00	01/15/2050
-	105,755.00	15,755.00	2.300%	90,000.00	07/15/2050
210,475.00	104,720.00	14,720.00	2.300%	90,000.00	01/15/2051
-	108,685.00	13,685.00	2.300%	95,000.00	07/15/2051
216,277.50	107,592.50	12,592.50	2.300%	95,000.00	01/15/2052
-	106,500.00	11,500.00	2.300%	95,000.00	07/15/2052
211,907.50	105,407.50	10,407.50	2.300%	95,000.00	01/15/2053
-	104,315.00	9,315.00	2.300%	95,000.00	07/15/2053
212,537.50	108,222.50	8,222.50	2.300%	100,000.00	01/15/2054
-	107,072.50	7,072.50	2.300%	100,000.00	07/15/2054
212,995.00	105,922.50	5,922.50	2.300%	100,000.00	01/15/2055
-	104,772.50	4,772.50	2.300%	100,000.00	07/15/2055
213,395.00	108,622.50	3,622.50	2.300%	105,000.00	01/15/2056
-	107,415.00	2,415.00	2.300%	105,000.00	07/15/2056
213,622.50	106,207.50	1,207.50	2.300%	105,000.00	01/15/2057
	\$7,622,941.67	\$2,512,941.67		\$5,110,000.00	Total

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Town of Long Beach - Lake Shore Drive Sanitary Sewer Project Proposed Sewage Works Revenue Bonds, Series 2020B \$2.92 M

# **Debt Service Schedule**

Part 1 of 2

Fiscal Total	Total P+I	Interest	Coupon	Principal	Date
-	-	-	-	-	09/15/2020
14,666.67 (	14,666.67	14,666.67	-	-	01/15/2021
-	22,000.00	22,000.00	-	-	07/15/2021
44,000.00 (	22,000.00	22,000.00	-	-	01/15/2022
-	67,000.00	22,000.00	2.000%	45,000.00	07/15/2022
133,550.00	66,550.00	21,550.00	2.000%	45,000.00	01/15/2023
-	66,100.00	21,100.00	2.000%	45,000.00	07/15/2023
131,750.00	65,650.00	20,650.00	2.000%	45,000.00	01/15/2024
-	65,200.00	20,200.00	2.000%	45,000.00	07/15/2024
129,950.00	64,750.00	19,750.00	2.000%	45,000.00	01/15/2025
-	69,300.00	19,300.00	2.000%	50,000.00	07/15/2025
138,100.00	68,800.00	18,800.00	2.000%	50,000.00	01/15/2026
-	68,300.00	18,300.00	2.000%	50,000.00	07/15/2026
136,100.00	67,800.00	17,800.00	2.000%	50,000.00	01/15/2027
-	67,300.00	17,300.00	2.000%	50,000.00	07/15/2027
134,100.00	66,800.00	16,800.00	2.000%	50,000.00	01/15/2028
-	66,300.00	16,300.00	2.000%	50,000.00	07/15/2028
132,100.00	65,800.00	15,800.00	2.000%	50,000.00	01/15/2029
-	65,300.00	15,300.00	2.000%	50,000.00	07/15/2029
130,100.00	64,800.00	14,800.00	2.000%	50,000.00	01/15/2030
-	69,300.00	14,300.00	2.000%	55,000.00	07/15/2030
138,050.00	68,750.00	13,750.00	2.000%	55,000.00	01/15/2031
-	68,200.00	13,200.00	2.000%	55,000.00	07/15/2031
135,850.00	67,650.00	12,650.00	2.000%	55,000.00	01/15/2032
-	67,100.00	12,100.00	2.000%	55,000.00	07/15/2032
133,650.00	66,550.00	11,550.00	2.000%	55,000.00	01/15/2033
-	66,000.00	11,000.00	2.000%	55,000.00	07/15/2033
131,450.00	65,450.00	10,450.00	2.000%	55,000.00	01/15/2034
-	64,900.00	9,900.00	2.000%	55,000.00	07/15/2034
134,250.00	69,350.00	9,350.00	2.000%	60,000.00	01/15/2035
-	68,750.00	8,750.00	2.000%	60,000.00	07/15/2035
136,900.00	68,150.00	8,150.00	2.000%	60,000.00	01/15/2036
-	67,550.00	7,550.00	2.000%	60,000.00	07/15/2036
134,500.00	66,950.00	6,950.00	2.000%	60,000.00	01/15/2037
-	66,350.00	6,350.00	2.000%	60,000.00	07/15/2037
132,100.00	65,750.00	5,750.00	2.000%	60,000.00	01/15/2038
-	65,150.00	5,150.00	2.000%	60,000.00	07/15/2038
134,700.00	69,550.00	4,550.00	2.000%	65,000.00	01/15/2039
-	68,900.00	3,900.00	2.000%	65,000.00	07/15/2039
137,150.00	68,250.00	3,250.00	2.000%	65,000.00	01/15/2040
-	67,600.00	2,600.00	2.000%	65,000.00	07/15/2040

(1) Capitalized Interest during contruction to be paid out of bond proceeds.

Long Beach Sewer Rev SRF | SINGLE PURPOSE | 1/16/2020 | 5:15 PM

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Town of Long Beach - Lake Shore Drive Sanitary Sewer Project Proposed Sewage Works Revenue Bonds, Series 2020B \$2.2 M

# **Debt Service Schedule**

Part 2 of 2

Date	Principal	Coupon	Interest	Total P+I	Fiscal Tota
01/15/2041	65,000.00	2.000%	1,950.00	66,950.00	134,550.00
07/15/2041	65,000.00	2.000%	1,300.00	66,300.00	
01/15/2042	65,000.00	2.000%	650.00	65,650.00	131,950.00
Total	\$2,200,000.00	-	\$539,516.67	\$2,739,516.67	-
Yield Statistics					
Bond Year Dollars					\$26,975.83
Average Life					12.262 Years
Average Coupon					2.000000%
Net Interest Cost (NIC)					2.0000000%
True Interest Cost (TIC)					2.0001040%
Bond Yield for Arbitrage Pur	rposes				2.0001040%
All Inclusive Cost (AIC)					2.1566791%
IRS Form 8038					
Net Interest Cost					2.000000%
Weighted Average Maturity					12.262 Years

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#### Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

#### Combined Debt Service Schedule

		Annual		Annual			
		Debt		Debt		Total	
		Service	Service			Annual	
		Series		Series	D	ebt Service	
		<u>2020A</u>		2020B		Payments	
01/15/21	\$	-	\$		\$		(1)
01/15/22		-	•	_	•	-	(1)
01/15/23		216,955.00		133,550.00		350,505.00	( )
01/15/24		214,655.00		, 131,750.00		346,405.00	
01/15/25		212,355.00		129,950.00		342,305.00	
01/15/26		210,055.00		138,100.00		348,155.00	
01/15/27		212,755.00		136,100.00		348,855.00	
01/15/28		215,282.50		134,100.00		, 349,382.50	
01/15/29		212,752.50		132,100.00		344,852.50	
01/15/30		210,222.50		130,100.00		340,322.50	
01/15/31		217,635.00		138,050.00		355,685.00	
01/15/32		214,875.00		135,850.00		350,725.00	4
01/15/33		212,115.00		133,650.00		345,765.00	
01/15/34		209,355.00		131,450.00		340,805.00	
01/15/35		216,537.50		134,250.00		350,787.50	
01/15/36		213,547.50		136,900.00		350,447.50	
01/15/37		210,557.50		134,500.00		345,057.50	
01/15/38		217,510.00		132,100.00		349,610.00	
01/15/39		214,290.00		134,700.00		348,990.00	
01/15/40		211,070.00		137,150.00		348,220.00	
01/15/41		212,850.00		134,550.00		347,400.00	
01/15/42		214,457.50		131,950.00		346,407.50	
01/15/43		211,007.50				211,007.50	
01/15/44		212,557.50				212,557.50	
01/15/45		213,935.00				213,935.00	
01/15/46		210,255.00				210,255.00	
01/15/47		216,517.50				216,517.50	
01/15/48		212,607.50				212,607.50	
01/15/49		213,697.50				213,697.50	
01/15/50		214,615.00				214,615.00	
01/15/51		210,475.00				210,475.00	
01/15/52		216,277.50				216,277.50	
01/15/53		211,907.50				211,907.50	
01/15/54		212,537.50				212,537.50	
01/15/55		212,995.00				212,995.00	
01/15/56		213,395.00				213,395.00	
01/15/57		213,622.50			. <u> </u>	213,622.50	-
	\$ 7	7,466,235.00	\$ 2	2,680,850.00	\$1	0,147,085.00	=

 Bond proceeds will pay capitalized interest during construction and up through period users connect to the system through January 15, 2022.

Town of Long Beach - Lake Shore Drive Sanitary Sewer Project

Preliminary Schedule of Sewer User Fees for Lake Shore Drive Project

#### For Assumed SRF Financing

Monthly Operating & Maintenance Sewer Fee for 700 Cubic Feet (Michigan City Sanitary - Outside District Rate)				
Long Beach Sewage Works Sewer Fee Capital Charges Maximum Annual Debt Service Charge on \$7,310,000 SRF Loan 20 & 35 Years - 2% & 2.3%	\$355,685			
Funding Debt Service Reserve & Coverage	\$ 88,921 (1)			
Total Revenue Requirements	\$444,606			
Annual Equivalent Dwelling Units (290 homes)	3,480 (2)			
Estimated Monthly Local Capital Charge		127.76		
Total Estimate Monthly Sewer Fees (Based on 700 cubic feet for Operating & Maintenance)		\$ 165.05		
Local Capital Charge to Non-Connecting Lake Shore Dr. Re Estimated Monthly Local Capital Charge to Lake Shore Drive Residents Not Connecting to the Sanitary Sewer Line.	esidents	\$ 127.76		

(1) SRF requires 125% coverage for its State Revolving Loans (Net Revenues/Maximum Annual Debt Service)

(2) Assumes all North and South Side Lakeshore residents pay the Local Capital Charge (to cover the debt service payments) regardless if they hook-up.

