



## TriCo Regional Sewer Utility

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### **JOINT BUDGET & FINANCE and CAPITAL & CONSTRUCTION COMMITTEE MEETING**

Friday, July 27, 2018 at 7:30 A.M.  
10701 N. College Avenue, Suite A, Indianapolis, IN 46280

#### **AGENDA**

1. Public Comment
2. Financial Statements and Investments
3. WWTP Expansion Project #1902
4. Other Business

Next B&F Committee meeting: Friday, August 28, 2018 at 7:30 am

Next C&C Committee meeting: Tuesday, September 4, 2018 at 4:30 pm

Clay Township Regional Waste District  
 Budget & Finance Committee - Analysis of June 2018  
 July 23, 2018

**Income Statements**

<u>Category</u>	<u>Actual</u>	<u>Budget</u>	<u>Variance</u> (unfavorable)	Above / -Under Budget	<u>Explanation</u>
Residential	388,947	392,306	(3,359)	-0.86%	Under Budget
Commercial	229,443	225,889	3,555	1.57%	Over Budget
Other Revenue	12,918	14,042	(1,123)	-8.00%	Over budget
Other Income	10,505	5,336	5,169	97%	Over budget
Total Revenue	641,814	637,572	4,242	0.67%	Over Budget

Residential sales were below projections by less than 1% and Commercial was above budget in June for a total of \$229,443. Commercial is up over \$42,000 from May to June.

June: Total Sales of \$641,814 were \$4,242 (.67%) above projected revenue of \$637,572. Total revenue is up over \$39,000 in June.

**June Spending Analysis**

Wages & benefits in June were \$1173,343 which is \$546 over budget (.32%)  
 Administration spending in June was \$39,949 which is \$17,750 under budget (30%)  
 Treatment costs in June were \$135,342 which is \$7,158 Under budget (5%)  
 Collection costs were \$68,845 in June which was \$4,155 below budget (5.69%)

**Total Operating expenses in June were \$417,480 which is \$28,517 under budget (6.4%)**

<u>Category</u>	<u>Actual</u>	<u>Budget</u>	<u>Variance</u> (unfavorable)	Above / -Under Budget	<u>Explanation</u>
			-		
Computer consultants	10,983	12,500	1,517	-12.13%	Under budget
Travel & Mileage	1,693	667	(1,026)	153.95%	Over budget
Office Expenses	4,940	3,333	(1,607)	48.21%	Over Budget
Lift Station R & M	14,100	7,917	(6,183)	78.10%	Over budget - Calibration exp
Manhole R & M	660	10,000	9,340	-93.40%	Over Budget-Impellers
			-		
Total Operating Expenses	417,480	445,997	28,517	-6.39%	Under Budget
Net Income (loss) net of depreciation	174,311	165,283	9,028	5.46%	Over projections for June

Computer expenses were under budget for June for a change. No other extra ordinary expenses to report.

### **Cash Generated**

Cash generated for June shows a net increase in all funds by \$174,700. Capital spending was \$92,540 which included spending for Headworks improvements, post treatment plant outflow, 96th and Keystone, and 106th St FM Parallel.

Individual fund balances and changes are listed on the Cash Generated Statements included with the monthly financial statements.

	June	April	+/- from last month
Operating	\$ 1,447,636	\$ 1,330,397	\$ 117,239
Interceptor	\$ (60,191)	\$ (62,821)	\$ 2,630
Plant Expansion	\$ 4,230,701	\$ 4,175,870	\$ 54,831
Operating Reserve	\$ 2,192,400	\$ 2,192,400	\$ -
Reserve for Replacement	\$ 321,258	\$ 321,258	\$ -
Total	\$ 8,131,804	\$ 7,957,104	\$ 174,700

YTD cash balances have increased \$1,357,531.

### **Investments**

There were no investment changes in June. The District invested \$2,000,000 in June 2015 in a 5 year CD earning 2.05%.

**TriCo Regional Sewer Utility****Balance Sheet**

June 2018

	<b>Actual as of 06/30/2018</b>	<b>Actual as of 06/30/2017</b>	<b>% of Prior Year</b>
<b>ASSETS</b>			
Utility Plant	114,446,320.37	111,729,789.00	102.43 %
Current Assets			
Cash & Investments			
Cash & Investments - Operating Fund	1,447,636.30	2,552,318.83	56.72 %
Cash & Investments - Operating Reserve	2,192,400.00	2,192,400.00	100.00 %
Cash & Investments - Reserve for Replacement	321,257.56	341,397.56	94.10 %
Cash & Investments - Interceptor Fund	(60,191.08)	67,330.25	(89.40)%
Cash & Investments - Plant Expansion Fund	4,230,701.03	3,312,687.17	127.71 %
Total Cash & Investments	8,131,803.81	8,466,133.81	96.05 %
Accounts Receivable	675,999.41	614,704.87	109.97 %
Liens Receivable	12,290.08	7,159.65	171.66 %
Invoiced Receivables	36,188.69	46,961.47	77.06 %
Notes & Interest Receivable	48,121.18	67,391.40	71.41 %
Investment Interest Receivable	121,427.00	80,427.00	150.98 %
Other Current Assets	364,269.60	317,223.72	114.83 %
Current Assets	9,390,099.77	9,600,001.92	97.81 %
<b>TOTAL ASSETS</b>	<b>123,836,420.14</b>	<b>121,329,790.92</b>	<b>102.07 %</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>			
<b>LIABILITIES</b>			
Current Liabilities			
Invoiced Payables	106,065.87	118,431.55	89.56 %
Accounts Payable	9,754.22	14,724.68	66.24 %
Accrued Paid Leave	87,263.08	79,443.01	109.84 %
Other Current Liabilities	112,576.17	96,814.73	116.28 %
Total Current Liabilities	315,659.34	309,413.97	102.02 %
<b>TOTAL LIABILITIES</b>	<b>315,659.34</b>	<b>309,413.97</b>	<b>102.02 %</b>
<b>EQUITY</b>			
Retained Earnings	24,725,474.97	22,675,459.05	109.04 %
Construction in Aid	98,795,285.83	98,344,917.90	100.46 %
<b>TOTAL EQUITY</b>	<b>123,520,760.80</b>	<b>121,020,376.95</b>	<b>102.07 %</b>
<b>Total</b>	<b>123,836,420.14</b>	<b>121,329,790.92</b>	<b>102.07 %</b>

<b>TriCo Regional Sewer Utility</b>									
<b>Income Statement</b>									
June 2018									
		<b>Actual</b>	<b>Budget</b>			<b>Actual</b>	<b>Budget</b>		
		<b>MTD</b>	<b>MTD</b>			<b>YTD</b>	<b>YTD</b>		
		<b>thru</b>	<b>thru</b>			<b>thru</b>	<b>thru</b>		
		<b>06/30/2018</b>	<b>06/30/2018</b>	<b>Variance</b>		<b>06/30/2018</b>	<b>12/31/2018</b>	<b>Variance</b>	
<b>Sales</b>									
Residential									
4001-1	Sales - Residential	388,947.01	392,305.92	(3,358.91)	99.14 %	2,318,115.86	4,707,671.00	(2,318,016.72)	49.24 %
Residential									
Commercial									
4003-1	Sales - Commercial	229,443.19	225,888.50	3,554.69	101.57 %	1,130,431.81	2,710,662.00	(1,130,330.24)	41.70 %
Commercial									
Other Revenue									
4005-1	Late Charges	8,094.30	7,000.00	1,094.30	115.63 %	44,905.90	84,000.00	(44,790.27)	53.46 %
4007-1	Applications Fees	4,524.00	5,625.00	(1,101.00)	80.43 %	39,612.00	67,500.00	(39,531.57)	58.68 %
4009-1	Plan Reviews, Inspections, Misc. Revenue	300.00	1,416.67	(1,116.67)	21.18 %	6,842.50	17,000.00	(6,821.32)	40.25 %
Other Revenue									
Total Sales									
Other Income									
4501-1	Interest - Investments	3,369.00	4,583.33	(1,214.33)	73.51 %	20,331.00	55,000.00	(20,257.49)	36.97 %
4503-1	Interest - Banking	6,911.19	0.00	6,911.19	0.00 %	41,636.04	0.00	(41,636.04)	0.00 %
4507-1	Bank Fees	(20.00)	(41.67)	21.67	48.00 %	(152.00)	(500.00)	200.00	30.40 %
4601-1	Interest - by project	243.18	361.17	(117.99)	67.33 %	1,499.67	4,334.00	(1,432.34)	34.60 %
4701-1	Customer Fees & Reimbursements	0.00	16.67	(16.67)	0.00 %	0.00	200.00	0.00	0.00 %
4901-1	Misc Income/Expense	2.00	416.67	(414.67)	0.48 %	(410.05)	5,000.00	410.53	(8.20)%
Other Income									
Total Revenue									
<b>Operating Expenses</b>									
Wages & Benefits									
5001-1	Gross Wages	123,255.55	120,833.33	(2,422.22)	102.00 %	729,229.60	1,450,000.00	729,127.60	50.29 %
5003-1	Other Employee Exp	1,229.13	833.33	(395.80)	147.50 %	7,535.35	10,000.00	7,387.85	75.35 %
5005-1	Retirement Plan - Hoosier START	11,470.47	11,958.33	487.86	95.92 %	71,684.18	143,500.00	71,588.26	49.95 %
5007-1	Employee Insurance	28,767.11	30,470.25	1,703.14	94.41 %	178,400.47	365,643.00	178,306.06	48.79 %
5009-1	Taxes (Employer FICA)	8,621.01	8,701.92	80.91	99.07 %	51,692.23	104,423.00	51,593.16	49.50 %

		Actual MTD thru	Budget MTD thru			Actual YTD thru	Budget YTD thru		
		06/30/2018	06/30/2018	Variance		06/30/2018	12/31/2018	Variance	
Wages & Benefits		173,343.27	172,797.16	(546.11)	100.32 %	1,038,541.83	2,073,566.00	1,038,441.51	50.08 %
Administration									
5101-1	Clay Township Govt Center Operations	3,258.30	4,333.33	1,075.03	75.19 %	27,163.08	52,000.00	27,087.89	52.24 %
5103-1	Professional Education	79.00	1,333.33	1,254.33	5.93 %	12,005.87	16,000.00	11,999.95	75.04 %
5105-1	Boardmember Fees	3,300.00	1,500.00	(1,800.00)	220.00 %	10,400.00	18,000.00	10,180.00	57.78 %
5107-1	Board Expense	61.83	125.00	63.17	49.46 %	361.48	1,500.00	312.02	24.10 %
5109-1	Consulting	0.00	4,166.67	4,166.67	0.00 %	1,288.75	50,000.00	1,288.75	2.58 %
5111-1	Computer Expenses/Consultants	10,983.33	12,500.00	1,516.67	87.87 %	92,319.56	150,000.00	92,231.69	61.55 %
5113-1	Insurance	0.00	8,333.33	8,333.33	0.00 %	54,381.51	100,000.00	54,381.51	54.38 %
5115-1	Accounting Fees	0.00	1,250.00	1,250.00	0.00 %	0.00	15,000.00	0.00	0.00 %
5117-1	Legal Fees	2,942.50	3,333.33	390.83	88.28 %	15,345.00	40,000.00	15,256.72	38.36 %
5119-1	Engineering Fees	3,224.08	3,333.33	109.25	96.72 %	9,693.08	40,000.00	9,596.36	24.23 %
5121-1	Special Engineering (I & I)	0.00	0.00	0.00	0.00 %	104.80	0.00	104.80	0.00 %
5125-1	Professional Affiliations	25.00	175.00	150.00	14.29 %	2,239.91	4,500.00	2,225.62	49.78 %
5127-1	Travel & Mileage	1,693.20	666.67	(1,026.53)	253.98 %	2,370.44	8,000.00	2,116.46	29.63 %
5129-1	Collection	(2,889.54)	66.67	2,956.21	(4,334.09)%	4,245.46	800.00	8,579.55	530.68 %
5131-1	Billing Service Contracts	5,546.98	7,333.33	1,786.35	75.64 %	37,520.26	88,000.00	37,444.62	42.64 %
5133-1	Bad Debt Expense	0.00	416.67	416.67	0.00 %	(419.08)	5,000.00	(419.08)	(8.38)%
5135-1	Office Expense	869.11	500.00	(369.11)	173.82 %	3,553.71	6,000.00	3,379.89	59.23 %
5137-1	Postage Expense	4,940.32	3,333.33	(1,606.99)	148.21 %	31,771.05	40,000.00	31,622.84	79.43 %
5139-1	Office Services	3,478.62	2,916.67	(561.95)	119.27 %	18,952.10	35,000.00	18,832.83	54.15 %
5141-1	Customer Outreach & Education	2,436.76	2,083.33	(353.43)	116.96 %	5,756.15	25,000.00	5,639.19	23.02 %
Administration		39,949.49	57,699.99	17,750.50	69.24 %	329,053.13	694,800.00	328,983.89	47.36 %
Treatment									
5201-1	Sewage Treatment - Carmel WWTP	91,864.69	91,666.67	(198.02)	100.22 %	525,433.95	1,100,000.00	525,333.73	47.77 %
5203-1	Sewer Sampling & Lab	3,360.06	3,333.33	(26.73)	100.80 %	28,941.74	40,000.00	28,840.94	72.35 %
5205-1	Biosolids Disposal	11,263.77	12,500.00	1,236.23	90.11 %	83,607.94	150,000.00	83,517.83	55.74 %
5207-1	Plant R & M	4,465.41	12,500.00	8,034.59	35.72 %	128,108.37	150,000.00	128,072.65	85.41 %
5209-1	Utilities - Plant	24,388.19	20,000.00	(4,388.19)	121.94 %	143,185.42	240,000.00	143,063.48	59.66 %
5211-1	Operating Supplies - Plant	0.00	1,250.00	1,250.00	0.00 %	7,341.53	15,000.00	7,341.53	48.94 %
5213-1	Safety Materials & Training	0.00	1,250.00	1,250.00	0.00 %	3,153.82	15,000.00	3,153.82	21.03 %
5215-1	Permits	0.00	0.00	0.00	0.00 %	10,270.00	12,000.00	10,270.00	85.58 %
Treatment		135,342.12	142,500.00	7,157.88	94.98 %	930,042.77	1,722,000.00	929,947.79	54.01 %
Collection System									
5301-1	Lift Station R & M	14,099.82	7,916.67	(6,183.15)	178.10 %	54,843.53	95,000.00	54,665.43	57.73 %
5303-1	Line Maintenance	23,125.53	10,000.00	(13,125.53)	231.26 %	47,634.87	65,000.00	47,403.61	73.28 %
5305-1	Line Repair	1,757.50	10,000.00	8,242.50	17.58 %	(5,509.36)	50,000.00	(5,526.94)	(11.02)%
5307-1	Equipment Repair	7,259.40	2,000.00	(5,259.40)	362.97 %	9,647.22	20,000.00	9,284.25	48.24 %
5309-1	Special R & M (I&I)	0.00	0.00	0.00	0.00 %	20.84	0.00	20.84	0.00 %
5313-1	Vehicle R & M	363.12	833.33	470.21	43.57 %	2,291.83	10,000.00	2,248.26	22.92 %

		Actual MTD thru	Budget MTD thru			Actual YTD thru	Budget YTD thru		
		06/30/2018	06/30/2018	Variance		06/30/2018	12/31/2018	Variance	
5315-1	Fuel	4,103.93	1,583.33	(2,520.60)	259.20 %	11,598.08	19,000.00	11,338.88	61.04 %
5317-1	Utilities - Lift Stations	14,384.85	18,000.00	3,615.15	79.92 %	81,981.69	200,000.00	81,901.77	40.99 %
5319-1	Operating Supplies - Collection System	56.89	0.00	(56.89)	0.00 %	647.29	60,000.00	647.29	1.08 %
5321-1	Manhole R&M	660.25	10,000.00	9,339.75	6.60 %	15,852.06	66,000.00	15,845.46	24.02 %
5322-1	Televising	0.00	12,000.00	12,000.00	0.00 %	0.00	45,000.00	0.00	0.00 %
5323-1	Uniforms & Shop Towels	3,034.13	666.67	(2,367.46)	455.12 %	5,713.69	8,000.00	5,258.57	71.42 %
	Collection System	68,845.42	73,000.00	4,154.58	94.31 %	224,721.74	638,000.00	224,627.43	35.22 %
	Total Operating Expenses	417,480.30	445,997.15	28,516.85	93.61 %	2,522,359.47	5,128,366.00	2,522,265.86	49.18 %
	Depreciation								
5901-1	Depreciation	324,590.32	307,314.08	(17,276.24)	105.62 %	1,947,528.05	3,687,769.00	1,947,422.43	52.81 %
	Depreciation	324,590.32	307,314.08	(17,276.24)	105.62 %	1,947,528.05	3,687,769.00	1,947,422.43	52.81 %
	Amortization								
5911-1	Amortization of CIAC	(274,568.00)	(281,022.00)	(6,454.00)	97.70 %	(1,647,408.00)	(3,372,264.00)	(1,647,505.70)	48.85 %
	Amortization	(274,568.00)	(281,022.00)	(6,454.00)	97.70 %	(1,647,408.00)	(3,372,264.00)	(1,647,505.70)	48.85 %
	Total Expenses	467,502.62	472,289.23	4,786.61	98.99 %	2,822,479.52	5,443,871.00	2,822,380.53	51.85 %
	NET SURPLUS/(DEFICIT)	174,311.25	165,283.03	9,028.22	105.46 %	780,333.21	2,206,996.00	(780,227.75)	35.36 %





		January	February	March	April	May	June	2018 Total YTD	2018 Annual Budget	Actual/Bud YTD
Administration										
5101-1	Clay Township Govt Center Operations	\$5,875.99	\$1,092.41	\$10,807.20	\$3,401.00	\$2,728.18	\$3,258.30	\$27,163.08	\$52,000.00	52.24 %
5103-1	Professional Education	\$876.00	\$1,032.50	\$3,983.10	\$393.00	\$5,642.27	\$79.00	\$12,005.87	\$16,000.00	75.04 %
5105-1	Boardmember Fees	\$2,000.00	\$1,500.00	\$850.00	\$900.00	\$1,850.00	\$3,300.00	\$10,400.00	\$18,000.00	57.78 %
5107-1	Board Expense	\$91.26	\$25.80	\$96.40	\$19.97	\$66.22	\$61.83	\$361.48	\$1,500.00	24.10 %
5109-1	Consulting	\$700.00	\$0.00	\$0.00	\$588.75	\$0.00	\$0.00	\$1,288.75	\$50,000.00	2.58 %
5111-1	Computer Expenses/Consultants	\$14,052.62	\$16,480.44	\$20,784.58	\$11,389.99	\$18,628.60	\$10,983.33	\$92,319.56	\$150,000.00	61.55 %
5113-1	Insurance	\$13,695.00	\$7,911.54	\$7,092.75	\$8,485.34	\$17,196.88	\$0.00	\$54,381.51	\$100,000.00	54.38 %
5115-1	Accounting Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,000.00	0.00 %
5117-1	Legal Fees	\$3,217.50	\$2,970.00	\$2,447.50	\$1,980.00	\$1,787.50	\$2,942.50	\$15,345.00	\$40,000.00	38.36 %
5119-1	Engineering Fees	\$0.00	\$144.97	\$2,685.00	\$42.73	\$3,596.30	\$3,224.08	\$9,693.08	\$40,000.00	24.23 %
5121-1	Special Engineering (I & I)	\$104.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$104.80	\$0.00	0.00 %
5125-1	Professional Affiliations	\$1,605.00	\$0.00	\$345.00	\$155.57	\$109.34	\$25.00	\$2,239.91	\$4,500.00	49.78 %
5127-1	Travel & Mileage	\$267.87	\$206.55	(\$222.51)	\$208.57	\$216.76	\$1,693.20	\$2,370.44	\$8,000.00	29.63 %
5129-1	Collection	\$3,450.00	\$3,625.00	\$60.00	\$0.00	\$0.00	(\$2,889.54)	\$4,245.46	\$800.00	530.68 %
5131-1	Billing Service Contracts	\$4,453.23	\$4,690.44	\$4,900.01	\$13,364.02	\$4,565.58	\$5,546.98	\$37,520.26	\$88,000.00	42.64 %
5133-1	Bad Debt Expense	(\$236.19)	(\$182.89)	\$0.00	\$0.00	\$0.00	\$0.00	(\$419.08)	\$5,000.00	(8.38)%
5135-1	Office Expense	\$342.16	\$598.53	\$152.89	\$716.12	\$874.90	\$869.11	\$3,553.71	\$6,000.00	59.23 %
5137-1	Postage Expense	\$5,899.17	\$4,935.18	\$5,128.11	\$5,934.39	\$4,933.88	\$4,940.32	\$31,771.05	\$40,000.00	79.43 %
5139-1	Office Services	\$5,947.39	\$1,033.43	\$1,735.28	\$3,287.44	\$3,469.94	\$3,478.62	\$18,952.10	\$35,000.00	54.15 %
5141-1	Customer Outreach & Education	\$0.00	\$0.00	\$250.00	\$1,797.99	\$1,271.40	\$2,436.76	\$5,756.15	\$25,000.00	23.02 %
Administration		\$62,341.80	\$46,063.90	\$61,095.31	\$52,664.88	\$66,937.75	\$39,949.49	\$329,053.13	\$694,800.00	47.36 %
Treatment										
5201-1	Sewage Treatment - Carmel WWTP	\$81,197.14	\$87,344.13	\$93,696.92	\$92,665.04	\$78,666.03	\$91,864.69	\$525,433.95	\$1,100,000.00	47.77 %
5203-1	Sewer Sampling & Lab	\$3,641.66	\$750.91	\$10,442.13	\$3,157.51	\$7,589.47	\$3,360.06	\$28,941.74	\$40,000.00	72.35 %
5205-1	Biosolids Disposal	\$15,549.90	\$11,492.40	\$18,139.57	\$12,028.77	\$15,133.53	\$11,263.77	\$83,607.94	\$150,000.00	55.74 %
5207-1	Plant R & M	\$13,590.33	\$36,121.52	\$13,655.41	\$5,971.82	\$54,303.88	\$4,465.41	\$128,108.37	\$150,000.00	85.41 %
5209-1	Utilities - Plant	\$22,835.09	\$23,093.31	\$22,654.82	\$24,433.71	\$25,780.30	\$24,388.19	\$143,185.42	\$240,000.00	59.66 %
5211-1	Operating Supplies - Plant	\$0.00	\$0.00	\$3,611.60	\$28.73	\$3,701.20	\$0.00	\$7,341.53	\$15,000.00	48.94 %
5213-1	Safety Materials & Training	\$280.52	\$1,111.81	\$438.54	\$1,190.94	\$132.01	\$0.00	\$3,153.82	\$15,000.00	21.03 %
5215-1	Permits	\$9,600.00	\$0.00	\$0.00	\$670.00	\$0.00	\$0.00	\$10,270.00	\$12,000.00	85.58 %
Treatment		\$146,694.64	\$159,914.08	\$162,638.99	\$140,146.52	\$185,306.42	\$135,342.12	\$930,042.77	\$1,722,000.00	54.01 %
Collection System										
5301-1	Lift Station R & M	\$318.35	\$5,656.33	\$8,389.77	\$2,869.73	\$23,509.53	\$14,099.82	\$54,843.53	\$95,000.00	57.73 %
5303-1	Line Maintenance	\$5,505.32	\$79.42	\$3,171.44	\$4,954.32	\$10,798.84	\$23,125.53	\$47,634.87	\$65,000.00	73.28 %
5305-1	Line Repair	(\$6,600.00)	\$0.00	(\$666.86)	\$248.08	(\$248.08)	\$1,757.50	(\$5,509.36)	\$50,000.00	(11.02)%
5307-1	Equipment Repair	\$1,407.95	\$108.27	\$49.07	\$25.22	\$797.31	\$7,259.40	\$9,647.22	\$20,000.00	48.24 %
5309-1	Special R & M (I&I)	\$0.00	\$0.00	\$0.00	\$0.00	\$20.84	\$0.00	\$20.84	\$0.00	0.00 %
5313-1	Vehicle R & M	\$176.71	\$176.98	\$0.00	\$895.58	\$679.44	\$363.12	\$2,291.83	\$10,000.00	22.92 %
5315-1	Fuel	\$1,131.77	\$1,035.77	\$1,351.39	\$1,789.98	\$2,185.24	\$4,103.93	\$11,598.08	\$19,000.00	61.04 %

								2018 Total	2018 Annual	Actual/Bud
		January	February	March	April	May	June	YTD	Budget	YTD
5317-1	Utilities - Lift Stations	\$10,745.27	\$8,407.83	\$21,825.64	\$16,236.30	\$10,381.80	\$14,384.85	\$81,981.69	\$200,000.00	40.99 %
5319-1	Operating Supplies - Collection System	\$344.55	\$182.61	(\$21.15)	\$84.39	\$0.00	\$56.89	\$647.29	\$60,000.00	1.08 %
5321-1	Manhole R&M	\$680.00	\$0.00	\$14,336.81	\$175.15	(\$0.15)	\$660.25	\$15,852.06	\$66,000.00	24.02 %
5322-1	Televising	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$45,000.00	0.00 %
5323-1	Uniforms & Shop Towels	\$772.22	\$233.93	\$739.83	\$720.19	\$213.39	\$3,034.13	\$5,713.69	\$8,000.00	71.42 %
Collection System		\$14,482.14	\$15,881.14	\$49,175.94	\$27,998.94	\$48,338.16	\$68,845.42	\$224,721.74	\$638,000.00	35.22 %
Total Operating Expenses		\$412,661.21	\$377,682.36	\$449,890.70	\$381,245.66	\$483,399.24	\$417,480.30	\$2,522,359.47	\$5,128,366.00	49.18 %
Depreciation										
5901-1	Depreciation	\$324,584.54	\$324,588.59	\$324,589.19	\$324,588.06	\$324,587.35	\$324,590.32	\$1,947,528.05	\$3,687,769.00	52.81 %
Depreciation		\$324,584.54	\$324,588.59	\$324,589.19	\$324,588.06	\$324,587.35	\$324,590.32	\$1,947,528.05	\$3,687,769.00	52.81 %
Amortization										
5911-1	Amortization of CIAC	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$1,647,408.00)	(\$3,372,264.00)	48.85 %
Amortization		(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$274,568.00)	(\$1,647,408.00)	(\$3,372,264.00)	48.85 %
Total Expenses		\$462,677.75	\$427,702.95	\$499,911.89	\$431,265.72	\$533,418.59	\$467,502.62	\$2,822,479.52	\$5,443,871.00	51.85 %
NET SURPLUS/(DEFICIT)		\$128,804.29	\$154,908.16	\$85,637.16	\$167,980.70	\$68,691.65	\$174,311.25	\$780,333.21	\$2,206,996.00	35.36 %

TriCo Regional Sewer Utility								
Income Statement								
2012-2018 Income Statement								
		2012	2013	2014	2015	2016	2017	2018
Sales								
Residential								
4001-1	Sales - Residential	\$3,248,951	\$3,453,668	\$3,703,113	\$3,976,293.85	\$4,213,266	\$4,491,951	\$2,318,116
Residential		\$3,248,951	\$3,453,668	\$3,703,113	\$3,976,293.85	\$4,213,266	\$4,491,951	\$2,318,116
Commercial								
4003-1	Sales - Commercial	\$1,676,172	\$1,735,735	\$1,838,788	\$2,110,126.89	\$2,362,428	\$2,499,185	\$1,130,432
Commercial		\$1,676,172	\$1,735,735	\$1,838,788	\$2,110,126.89	\$2,362,428	\$2,499,185	\$1,130,432
Other Revenue								
4005-1	Late Charges	\$66,380	\$69,761	\$69,241	\$76,215.29	\$73,751	\$94,379	\$44,906
4007-1	Applications Fees	\$51,725	\$64,319	\$70,785	\$56,088.00	\$68,291	\$67,301	\$39,612
4009-1	Plan Reviews, Inspections, Misc. Revenue	\$18,976	\$23,032	\$43,729	\$37,857.05	\$18,268	\$20,045	\$6,843
Other Revenue		\$137,081	\$157,111	\$183,754	\$170,160.34	\$160,309	\$181,724	\$91,360
Total Sales		\$5,062,204	\$5,346,514	\$5,725,655	\$6,256,581.08	\$6,736,002	\$7,172,859	\$3,539,908
Other Income								
4501-1	Interest - Investments	\$60,164	\$47,484	\$3,107	\$18,984.00	\$41,112	\$41,000	\$20,331
4503-1	Interest - Banking	\$116,667	\$96,324	\$109,049	\$112,839.26	\$114,399	\$97,090	\$41,636
4507-1	Bank Fees	(\$5,802)	(\$6,353)	(\$9,052)	(\$5,453.94)	(\$336)	(\$234)	(\$152)
4601-1	Interest - by project	\$27,809	\$19,049	\$13,925	\$9,057.58	\$5,345	\$4,066	\$1,500
4701-1	Customer Fees & Reimbursements	\$8,300	\$6,737	\$3,193	\$4,090.98	\$4,467	\$150	\$0
4801-1	Gain/Loss on Asset Disposal	\$7,200	\$0	\$0	\$4,526.00	\$0	\$789	\$0
4901-1	Misc Income/Expense	(\$184,673)	\$2,888	\$25,571	\$2,844.58	(\$40,639)	\$18,659	(\$410)
Other Income		\$29,666	\$166,129	\$145,792	\$146,888.46	\$124,348	\$161,520	\$62,905
Total Revenue		\$5,091,870	\$5,512,643	\$5,871,448	\$6,403,469.54	\$6,860,351	\$7,334,379	\$3,602,813
Operating Expenses								
Wages & Benefits								
5001-1	Gross Wages	\$1,171,074	\$1,221,480	\$1,250,384	\$1,278,517.28	\$1,395,761	\$1,408,270	\$671,293
5003-1	Other Employee Exp	\$26,943	\$16,880	\$8,773	\$21,843.35	\$5,619	\$18,715	\$7,535
5005-1	Retirement Plan - Hoosier START	\$121,546	\$120,701	\$124,510	\$127,168.77	\$138,742	\$138,706	\$66,238
5007-1	Employee Insurance	\$239,235	\$222,270	\$251,692	\$276,340.87	\$303,727	\$288,222	\$181,248
5009-1	Taxes (Employer FICA)	\$83,872	\$88,127	\$89,967	\$91,586.36	\$99,427	\$100,226	\$47,279
Wages & Benefits		\$1,642,670	\$1,669,457	\$1,725,326	\$1,795,456.63	\$1,943,276	\$1,954,139	\$973,594
Administration								

		2012	2013	2014	2015	2016	2017	2018
5101-1	Clay Township Govt Center Operations	\$40,937	\$48,629	\$56,440	\$36,217.66	\$28,497	\$47,829	\$27,163
5103-1	Professional Education	\$20,162	\$17,742	\$19,669	\$19,451.16	\$9,590	\$13,140	\$12,006
5105-1	Boardmember Fees	\$19,032	\$17,950	\$18,350	\$19,300.00	\$18,250	\$18,231	\$8,750
5107-1	Board Expense	\$1,006	\$1,177	\$808	\$1,216.15	\$1,358	\$1,205	\$361
5109-1	Consulting	\$14,274	\$21,156	\$25,635	\$32,011.12	\$25,813	\$61,126	\$1,289
5111-1	Computer Expenses/Consultants	\$109,577	\$87,624	\$105,738	\$93,378.82	\$106,236	\$198,198	\$92,320
5113-1	Insurance	\$72,094	\$74,530	\$82,636	\$88,651.00	\$92,480	\$98,546	\$54,382
5115-1	Accounting Fees	\$0	\$6,000	\$970	\$0.00	\$8,500	\$84	\$0
5117-1	Legal Fees	\$45,956	\$39,741	\$25,734	\$38,188.03	\$25,516	\$36,091	\$15,345
5119-1	Engineering Fees	\$28,899	\$23,870	\$61,753	\$18,920.57	\$43,305	\$54,018	\$9,693
5121-1	Special Engineering (I & I)	\$0	\$0	\$780	\$0.00	\$1,164	\$0	\$105
5125-1	Professional Affiliations	\$2,783	\$7,434	\$4,648	\$4,238.17	\$4,134	\$5,927	\$2,240
5127-1	Travel & Mileage	\$4,249	\$8,289	\$8,102	\$8,250.74	\$6,976	\$7,898	\$2,370
5129-1	Collection	(\$5,432)	(\$14,059)	(\$1,603)	(\$1,091.84)	(\$6,736)	(\$4,117)	\$4,245
5131-1	Billing Service Contracts	\$120,806	\$133,746	\$139,916	\$139,331.53	\$138,290	\$94,185	\$33,165
5133-1	Bad Debt Expense	(\$49)	\$0	\$0	\$20.82	\$0	\$107	(\$419)
5135-1	Office Expense	\$9,514	\$11,335	\$9,004	\$9,372.52	\$12,070	\$11,583	\$3,554
5137-1	Postage Expense	\$8,995	\$8,267	\$9,174	\$9,000.00	\$9,000	\$34,805	\$26,840
5139-1	Office Services	\$29,944	\$28,661	\$35,757	\$31,487.40	\$50,440	\$35,186	\$18,952
5141-1	Customer Outreach & Education	\$15,462	\$19,521	\$16,470	\$18,721.81	\$12,572	\$9,882	\$5,756
5143-1	IRSDA	\$0	(\$0)	\$0	\$0.00	\$0	\$0	\$0
Administration		\$538,209	\$541,612	\$619,980	\$566,665.66	\$587,455	\$723,923	\$318,117
Treatment								
5201-1	Sewage Treatment - Carmel WWTP	\$718,154	\$796,674	\$715,709	\$731,733.86	\$1,046,735	\$1,027,132	\$525,434
5203-1	Sewer Sampling & Lab	\$36,015	\$26,360	\$37,779	\$26,377.52	\$31,115	\$40,233	\$28,942
5205-1	Biosolids Disposal	\$100,643	\$105,994	\$138,195	\$137,800.77	\$140,798	\$148,002	\$83,608
5207-1	Plant R & M	\$125,100	\$201,530	\$145,656	\$148,018.49	\$141,510	\$160,411	\$128,108
5209-1	Utilities - Plant	\$182,861	\$192,123	\$229,027	\$220,675.87	\$199,896	\$268,184	\$143,185
5211-1	Operating Supplies - Plant	\$74,657	\$58,831	\$36,918	\$20,200.70	\$24,579	\$15,591	\$7,342
5213-1	Safety Materials & Training	\$13,980	\$21,668	\$17,780	\$19,195.27	\$20,466	\$14,626	\$3,154
5215-1	Permits	\$9,145	\$9,120	\$9,270	\$10,670.00	\$10,335	\$10,395	\$10,270
Treatment		\$1,260,555	\$1,412,300	\$1,330,334	\$1,314,672.48	\$1,615,434	\$1,684,573	\$930,043
Collection System								
5301-1	Lift Station R & M	\$150,919	\$193,175	\$165,902	\$119,919.59	\$72,518	\$90,733	\$54,844
5302-1	Lift Station Repair - Michigan Rd	\$0	\$0	\$0	\$0.00	\$0	\$1,809	\$0
5303-1	Line Maintenance	\$161,177	\$187,852	\$56,300	\$44,464.64	\$13,855	\$26,300	\$39,957
5305-1	Line Repair	\$26,967	\$117,738	\$5,927	\$46,608.47	\$1,200	\$42,658	(\$5,509)
5307-1	Equipment Repair	\$8,322	\$17,340	\$23,890	\$18,198.77	\$18,436	\$18,956	\$9,647
5309-1	Special R & M (I&I)	\$60,035	\$81,116	\$45,963	\$8,168.69	\$40	\$0	\$21
5313-1	Vehicle R & M	\$7,882	\$19,889	\$15,610	\$26,108.02	\$16,746	\$9,409	\$2,292

		2012	2013	2014	2015	2016	2017	2018
5315-1	Fuel	\$24,880	\$35,219	\$30,215	\$16,371.69	\$15,738	\$20,620	\$9,860
5317-1	Utilities - Lift Stations	\$125,799	\$149,625	\$157,739	\$152,853.16	\$178,621	\$172,299	\$81,982
5319-1	Operating Supplies - Collection System	\$2,905	\$5,735	\$6,348	\$5,051.68	\$78,328	\$70,457	\$647
5321-1	Manhole R&M	\$36,320	\$115,222	\$51,446	\$234.00	\$21,950	\$63,615	\$15,852
5322-1	Televising	\$18,498	\$67,955	\$13,511	\$1,252.50	\$20,450	\$23,074	\$0
5323-1	Uniforms & Shop Towels	\$13,767	\$15,706	\$10,987	\$12,281.29	\$14,336	\$7,993	\$5,714
Collection System		\$637,469	\$1,006,571	\$583,837	\$451,512.50	\$452,218	\$547,924	\$215,306
Total Operating Expenses		\$4,078,904	\$4,629,940	\$4,259,477	\$4,128,307.27	\$4,598,383	\$4,910,559	\$2,437,059
Depreciation								
5901-1	Depreciation	\$2,866,826	\$2,924,763	\$3,030,846	\$3,467,130.09	\$3,567,465	\$3,687,973	\$1,947,528
Depreciation		\$2,866,826	\$2,924,763	\$3,030,846	\$3,467,130.09	\$3,567,465	\$3,687,973	\$1,947,528
Amortization								
5911-1	Amortization of CIAC	(\$2,768,112)	(\$2,823,620)	(\$2,901,948)	(\$3,082,164.00)	(\$3,218,712)	(\$3,372,264)	(\$1,647,408)
Amortization		(\$2,768,112)	(\$2,823,620)	(\$2,901,948)	(\$3,082,164.00)	(\$3,218,712)	(\$3,372,264)	(\$1,647,408)
Total Expenses		\$4,177,618	\$4,731,083	\$4,388,374	\$4,513,273.36	\$4,947,137	\$5,226,269	\$2,737,179
<b>NET SURPLUS/(DEFICIT)</b>		<b>\$914,251</b>	<b>\$781,560</b>	<b>\$1,483,073</b>	<b>\$1,890,196.18</b>	<b>\$1,913,214</b>	<b>\$2,108,111</b>	<b>\$865,634</b>

# Clay Township Regional Waste District

## Cash Generated

### June 2018

	<u>Operating</u>	<u>Interceptor</u>	<u>Plant Expansion</u>	<u>Operating Reserve</u>	<u>Reserve for Replacement</u>	<u>Retainage</u>	<u>TOTAL</u>
Beginning Balance	1,330,397	(62,821)	4,175,870	2,192,400	321,258	(0)	7,957,104 0
Receipts:							
Deposits	606,854	10,188	54,831	0	0	0	671,872
Interest	6,911					0	6,911
Transfers	0					0	0
Total Receipts	<u>613,765</u>	<u>10,188</u>	<u>54,831</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>678,783</u>
Disbursements:							
Checks	319,678					0	319,678
Carmel Utilities	91,865					0	91,865
Plant Outflow 1701	1,036					0	1,036
Plant Odor Control-1505	78,593					0	78,593
LS 8 Upgrades - 1904						0	0
LS 4 Forcemain Extension 1901	0					0	0
	0						
LS 4 Elim - 1801		5,800					
106th St Parallel FM-1601	1,800	1,758				0	3,558
Office Consolidation						0	0
Neighborhood sewers	0						
96th Keystone Relocate - 1702	3,553						
Plant Expansion - 1902							
Springmill Interceptor-1602						0	0
Transfers						0	0
Total Disbursements	<u>496,526</u>	<u>7,558</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>494,730</u>
Net Increase/(Decrease)	117,239	2,630	54,831	0	0	0	174,700
Ending Balance	1,447,636	(60,191)	4,230,701	2,192,400	321,258	(0)	8,131,804

**Clay Township Regional Waste District**  
**Cash Generated**  
YTD June 2018

	<u>Operating</u>	<u>Interceptor</u>	<u>Plant Expansion</u>	<u>Operating Reserve</u>	<u>Reserve for Replacement</u>	<u>Retainage</u>	<u>TOTAL</u>
Beginning Balance	564,232	49,381	3,636,387	2,192,400	331,873	(0)	12,392,191
Receipts:							
Deposits	3,663,329	248,762	605,971	0	0	0	4,518,062
Interest	41,636	0	0	0	0	0	41,636
Transfers	0	0	0	0	0	0	0
Total Receipts	3,704,965	248,762	605,971	0	0	0	4,559,698
Disbursements:							
Checks	2,186,650	0	0	0	10,615	0	2,197,265
Carmel Utilities	525,434	0	0	0	0	0	525,434
Plant Outflow 1701	1,086	0	2,101	0	0	0	3,187
Plant Odor Control-1505	86,131	0	0	0	0	0	86,131
LS 8 Upgrades - 1904	0	637	0	0	0	0	637
LS 4 Forcemain Extension 1901	0	42,500	0	0	0	0	42,500
96th Keyston Repairs	0	0	0	0	0	0	0
LS 4 Elim - 1801	0	8,600	0	0	0	0	8,600
106th St Parallel FM-1601	4,080	306,596	0	0	0	0	310,676
Office Consolidation	5,541	0	0	0	0	0	5,541
Neighborhood sewers	7,710	0	0	0	0	0	7,710
96th Keystone Relocate - 1702	4,929	0	0	0	0	0	
Plant Expansion - 1902	0	0	9,555	0	0	0	
Springmill Interceptor-1602	0	0	0	0	0	0	0
Transfers	0	0	0	0	0	0	0
Total Disbursements	2,821,561	358,333	11,656	0	10,615	0	3,187,681
Net Increase/(Decrease)	883,404	(109,571)	594,315	0	(10,615)	0	1,372,017
Ending Balance	1,447,636	(60,190)	4,230,702	2,192,400	321,258	(0)	8,131,806

## 2018 Capital Budget

Location	Project No.	Project	Funding Source	2017 Projected to Complete	2018	June	YTD Spending	Justification
WWTP	Michigan Road Wastewater Treatment Plant							
	1505	Headworks	Operating Fund		\$ -	\$ 78,593	\$ 86,132	ongoing performance issues with existing equipment
	1701	Post Treatment Improvements	Plant Expansion Fund	\$ 25,000	\$ 250,000	\$ 1,036	\$ 3,188	Increase outfall capacity needed in 2018
	1902	WWTP Expansion	Plant Expansion Fund		\$ 50,000		\$ 9,555	capacity expansion: screen, VLRs, clarifier, UV (need online by 2021 based on current and projected flow growth)
	2502	WWTP Expansion	Plant Expansion Fund				\$ -	capacity expansion: grit removal, VLR, clarifiers, genset (need online by 2027 based on current and projected flow growth)
		WWTP Alternative Power					\$ -	Solar panel installation to reduce electric power consumption
		Annual Plant Improvement & Repair Projects	Operating Fund		\$ 150,000		\$ 10,615	Typical annual expenditures
LS 1	Carmel Creek							
	1606	Basin 1 I&I Removal	Operating Fund	\$ -	\$ 60,000		\$ -	Line repairs remain. Combine with Basin 8 efforts.
	1702	96th/Keystone force main relocation	Operating Fund	\$ 25,000	\$ 250,000	\$ 3,553	\$ 4,930	Relocate LS1 forcemain and southern interceptor for interchange project
	2001	Replace wet weather pumps, generator, wet well piping	Reserve for Replacement Fund				\$ -	Replace equipment at the end of its service life.
		Fence Replacement	Operating Fund		\$ 15,000		\$ 11,448	
LS 2	Meridian Corridor							
	1601	106th Street Parallel Force main (Ditch Road to Michigan Road WWTP)	Interceptor Fund			\$ 3,558	\$ 310,676	Increase capacity - LS 2 & 8 to MRWWTP
	1602	Springmill parallel interceptor	Interceptor Fund				\$ 220	Relief for existing Springmill Interceptor, service unsewered & undeveloped parcels.
	2401	106th Street Parallel Force main (LS 2 to Ditch Road)	Interceptor Fund				\$ -	Timing is based on when capacity is needed.
LS 3	Northern Heights						\$ -	
		(no projects)					\$ -	
LS 4	Springmill Ridge						\$ -	
	1801	Interceptor extension and lift station elimination	Interceptor Fund	\$ 25,000	\$ 300,000	\$ 5,800	\$ 8,600	LS4 pumps are past their useful life. LS is undersized. Proceed with completion of Jackson's Grant Section 6 sewers. This part of the project extends the interceptor across the Book property and eliminates LS4
LS 5	Springmill Streams						\$ -	
	2601	Interceptor extension & lift station elimination	Interceptor Fund				\$ -	This project can proceed following completion of Jackson's Grant Section 2. Can combine this project with the LS19 elimination project.
LS 6	Waldon Pond						\$ -	
	1705	Interceptor extension & lift station elimination	Interceptor Fund	\$ -	\$ 900,000		\$ -	Timing is development driven.
LS 7	Laurelwood Sub						\$ -	
		(no projects)					\$ -	
LS 8	Laurelwood						\$ -	
	1606	Basin 8 I&I removal	Operating Fund	\$ 10,000	\$ 60,000		\$ -	Manhole rehab & raising, line repairs. Combine with Basin 1 efforts.



## 2018 Capital Budget

Location	Project No.	Project	Funding Source	2017 Projected to Complete	2018	June	YTD Spending	Justification
	1904	Pump & electrical upgrades + new force main to 106th St	Interceptor Fund		\$ 50,000		\$ 638	Increase wet weather capacity
LS 9	Towne Road	(no projects)					\$ -	
LS 10	Michigan Road						\$ -	
	1903	Pump and controls upgrades	Reserve for Replacement Fund		\$ 50,000		\$ -	Increase wet weather capacity & redundancy.
LS 11	Boone County	(no projects)					\$ -	
LS 12	Kingsmill	(no projects)					\$ -	
LS 14	Austin Oaks						\$ -	
	1901	Parallel force main extension	Interceptor Fund		\$ 50,000		\$ 42,500	The lift station is near its wet weather capacity. This project would also allow us to serve a pending service area expansion.
	2002	Generator replacement	Reserve for Replacement Fund				\$ -	Replace equipment at the end of its service life.
	2301	LEC Interceptor extension	Interceptor Fund				\$ -	Extend service to area north of CR300S. Timing is developer driven.
LS 16	Zionsville Presbyterian						\$ -	
	1905	Replacement/relocation	Operating Fund				\$ -	Upsize to buildout capacity & relocate to The Farm development. Timing is development driven.
LS 17	Zion Hills						\$ -	
	2501	Pump & electrical upgrades	Reserve for Replacement Fund				\$ -	Timing is based on when capacity is needed. This project may be needed sooner pending a service area expansion.
LS 18	Train Express						\$ -	
		Pump replacements	Reserve for Replacement Fund				\$ -	Replace pumps at the end of their service life.
LS 19	Village of West Clay						\$ -	
	2601	Interceptor extension & lift station elimination	Interceptor Fund				\$ -	Can proceed following completion of Jackson's Grant Phase 2. Can combine with LS5 elimination project. Timing is development driven.
LS 20	Mayflower Park						\$ -	
		Pump replacement	Reserve for Replacement Fund				\$ -	Replace pumps at the end of their service life.
LS 21	High Grove						\$ -	
	2302	Interceptor extension & lift station elimination	Interceptor Fund				\$ -	Required with future development south of LS 21. Timing is development driven.
LS 22	North Augusta	(no projects)					\$ -	
LS 23	126th Street						\$ -	
	2201	Pump & electrical upgrades	Reserve for Replacement Fund				\$ -	Timing is based on when capacity is needed.
LS 24	Parkwood West						\$ -	

## 2018 Capital Budget

Location	Project No.	Project	Funding Source	2017 Projected to Complete	2018	June	YTD Spending	Justification
		(no projects)					\$ -	
LS 25	Towne Oak Estates						\$ -	
		(no projects)					\$ -	
LS 26	Jacksons Grant						\$ -	
	N/A	Jackson's Grant Section 2 sewer oversized	Interceptor Fund		\$100,000		\$ -	Allows for future elimination of LS 5 & 19. Estimated sewer oversized cost less interceptor fees credited equals net estimated cost to CTRWD (\$100,000)
	N/A	Jackson's Grant Section 6 sewer oversized/extension	Interceptor Fund		\$350,000		\$ -	Allows for elimination of LS 4 (see #1801). CTRWD to pay full cost of sewer extension until developer proceeds with Section 6. At that time developer pays fees and reimburses CTRWD for non-oversizing costs (estimated at \$350,000 total)
	2202	LS 26 additional pumps & parallel force main extension	Interceptor Fund				\$ -	Timing is based on when capacity is needed in Springmill Interceptor and LS 26. Must be complete before elimination of LS 5 & 19.
General collection system projects								\$ -
		Annual Misc. Repairs, Replacements & Line Relocations	Reserve for Replacement Fund		\$ 150,000		\$ 6,640	Repairs are made as problems are found during televising.
	1707	Autumn Woods, W116thSt, Williams Manor, Springmill Place/Heights Neighborhood Sewer Extionsion Project	Operating Fund	\$ 50,000	\$ 325,000		\$ 7,710	extend service into unsewered neighborhoods
		Future Neighborhood Sewer Projects	Operating Fund				\$ -	extend service into unsewered neighborhoods
Equipment								\$ -
		Vehicles	Operating Fund		\$ 25,000		\$ -	Scheduled Replacement of Vehicles
		Gear Reducer	Reserve for Replacement Fund		\$ 60,000		\$ -	
		Chem Tank Drain Replacement	Reserve for Replacement Fund		\$ 8,000		\$ -	
		Refrigerated B.O.D. Incubators	Reserve for Replacement Fund		\$ 7,500		\$ -	Replacement and Upgrades to Lab equipment
		Clayapp Server Replacement	Operating Fund		\$ 8,000		\$ 16,159	
		Datto Replacement (Computer Backup)	Operating Fund		\$ 15,000		\$ -	
Administration Projects								\$ -
		Copier	Operating Fund		\$ 15,000		\$ -	Replacement of copier
		Admin office improvements	Operating Fund		\$ 300,000		\$ 5,540	Expand front office, expand storage, security improvements.
		Plant office/shop improvements	Operating Fund		\$ 200,000		\$ 3,000	Expand office and conference room space.
Totals				\$ 135,000	\$ 3,248,500	\$ 92,540	\$ 527,550	2.74%



## MEMORANDUM

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**To: C&C and B&F Committees**

**From: Wes Merkle**

**Date: July 25, 2018**

**Subject: #1902 WWTP Expansion**

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### Background & Need

TriCo's Michigan Road WWTP is located at 7236 Mayflower Park Drive in Zionsville, southwest of the intersection of 106th Street and Michigan Road. The plant was originally constructed in 1991 with a capacity of 0.6 million gallons per day (MGD). It has since undergone multiple expansion projects, with the most recent expansion project completed in 2014. The plant now has a capacity of 3.05 MGD average daily flow. The plant can treat 15.3 MGD peak hour flow in wet weather, however the outfall sewer currently limits effluent flows to approximately 11 MGD. A separate project that includes expansion of the outfall sewer is expected to be complete in 2019.

In addition to the Michigan Road WWTP, TriCo owns capacity at Carmel's WWTP, in the amount of 3.08 MGD average daily flow and 6.16 MGD peak 3-hour flow in wet weather. Total TriCo-owned average daily flow capacity at both plants is 6.11 MGD. Total combined daily flow to both plants averaged 4.49 MGD in 2017. The highest combined peak hour wet weather flow to both locations occurred on April 3, 2018, at 16.5 MGD.

Multiple master planning studies have been completed by HNTB, Strand Associates, GRW Engineers, and TriCo staff since 2008. Service area buildout is anticipated to be 21,900 equivalent dwelling units (EDUs), achieved in the year 2032, which is a growth rate of approximately 500 EDUs per year. TriCo has added an average of 520 (EDUs) per year since 2008 – see the attached graphs showing growth history and projections. At 310 gallons per day per EDU, adding 520 EDUs equals adding 0.16 MGD average daily flow per year. Buildout average daily flow from our service area is expected to be 7.64 MGD, which includes a 10 percent reserve factor. IDEM issues a warning notice when flows reach 90 percent of capacity. Buildout capacity of the Michigan Road WWTP will therefore be 4.56 MGD average daily flow and 23.0 MGD peak hour flow, with no changes to TriCo-owned capacity at Carmel. At our current growth rate, we will exceed 90 percent of average daily flow capacity in 2024 and peak hour flow (wet weather) in 2021.

As staff has previously discussed with the Board, average daily flow is generally a good statistic for tracking plant capacity. However, average daily flow is affected by wet weather, meaning more or less rainfall in a given year results a corresponding increase or decrease in average daily flow. Inflow and Infiltration (I&I) removal efforts impact both average daily flow as well as peak hour flow in wet weather. While I&I removal has obvious advantages in wet weather, it creates challenges elsewhere such as higher strength wastewater, which is an issue we already

deal with. Nutrient loadings will continue to increase as the area builds out. And as we approach plant capacity, operational trouble spots are far more likely to emerge.

### Proposed Projects

Staff has broken down plant expansion into two final projects: the first project constructed in 2020-2021, the second project constructed in 2026-2027. To increase wet weather capacity by 2021, the following improvements must be completed in the first project:

1. Add a third mechanical screen to the pretreatment building. This equipment removes unwanted debris from incoming flow. The pretreatment building was originally constructed with three channels to meet buildout needs; two of the three channels currently have screens.
2. Add a fourth 70' diameter secondary clarifier. The existing cluster of three clarifiers in the vertical loop reactor (VLR) treatment train was constructed to accommodate a fourth clarifier. Staff has already had challenges with wet weather performance of these clarifiers.
3. Add a third ultraviolet (UV) disinfection channel. Equipment was added to the second channel in the 2012 expansion; however, three channels are needed to accommodate wet weather flows.

To increase dry weather (average daily flow) capacity by 2024, at least two additional VLRs must be constructed. These large, deep tanks are constructed adjacent to each other. There are currently four VLRs; three additional VLRs (seven total) are needed for buildout capacity. Staff considered the following alternatives regarding VLR construction:

1. Add three VLRs under the 2020-2021 project at an estimated cost of \$6.33 million.
2. Add three VLRs under a separate project in 2022-2023 at an estimated cost of \$6.84 million. This option is \$510,000 more expensive than Option 1 due to price escalation.
3. Add two VLRs under the 2020-2021 project and add a third VLR under the 2026-2027 project at a combined estimated cost of \$7.85 million. This option is \$1.52 million more expensive than Option 1 due to both price escalation and efficiencies in constructing these large adjacent tanks simultaneously.

The cost to treat wastewater at TriCo's plant is substantially less than what Carmel charges, so constructing the VLRs sooner would allow staff to shift flow from Carmel to TriCo's plant. If Option 1 was selected instead of Option 2, TriCo would save \$740,000 in operating costs through 2023. If Option 1 was selected instead of Option 3, TriCo would save \$970,000 in operating costs through 2027. Due to long term savings in both construction and operating costs, staff recommends Option 1 – constructing the three final VLRs with the 2020-2021 project.

Plant staff has asked for a grit removal facility for many years. Grit removal effectively removes heavier inorganic particles from wastewater that would otherwise settle out in the oxidation ditch or VLRs. Staff drains these structures every few years to physically remove the sediment buildup from the bottoms of the tanks. A few years ago VLRs 1 and 2 had nearly 5 feet of sediment buildup that took weeks to remove. This buildup takes away from plant capacity and reduces treatment effectiveness. Postponing grit removal to 2026-2027 would add nearly \$700,000 to plant buildout costs due to price escalation and increase operating costs by \$100,000-200,000 for tank cleaning expenses. Operational difficulties and inefficiencies caused by sediment buildup and removal, while difficult to quantify, should not be discarded.

The emergency generator will be at the end of its useful life and due for replacement in 2027. Its replacement was included in the 2020 project because the equipment added in both projects

would exceed the working capacity of the existing generator. Staff will look into the possibility of adding electrical controls that allow only critical equipment to run during a power outage, postponing the need to replace the generator until the 2026-2027 project. This alternative will be evaluated further during the design process.

Typically IDEM requires construction of digesters to increase plant capacity. Upon further evaluation, no additional digesters are required through plant buildout. TriCo will continue to meet Class B biosolids requirements with existing infrastructure, saving over \$5 million from earlier cost estimates.

The belt filter press will be at the end of its useful life in 2027. While it is capable of handling sludge production from additional flow, it will require proportionally more run time in the future to operate. It is recommended to include replacement of the belt filter press in the 2026-2027 project; however, other technologies will be considered at that time, such as a centrifuge, screw press, and volute press.

The final two 70' diameter secondary clarifiers are recommended for the 2026-2027 project. One of the clarifiers will increase wet weather capacity and the second will replace the three smaller 40' diameter clarifiers. The smaller clarifiers, which will have been in service for over 30 years, will be due for major equipment replacement expenses. Larger clarifiers perform much better in wet weather flows.

An alternative scenario was evaluated by staff that would have further expanded plant capacity to 6.07 MGD average daily flow. This would have allowed all flow from Lift Station 2 (106<sup>th</sup>/Springmill) to be sent to our plant, alleviating some of TriCo's dependency on Carmel for treatment. The scenario would have required construction of three additional VLRs. The evaluation considered increased construction costs, increased operating costs at our plant, and reduced treatment expenses paid to Carmel. Because Carmel is not willing to reduce the 1.75 MGD minimum flow, TriCo would not be able to further reduce flows to Carmel until 2026. At this time there is no substantial benefit to TriCo to construct additional VLRs until 2026, therefore staff recommends re-evaluating this scenario before proceeding with design of the 2026 project.

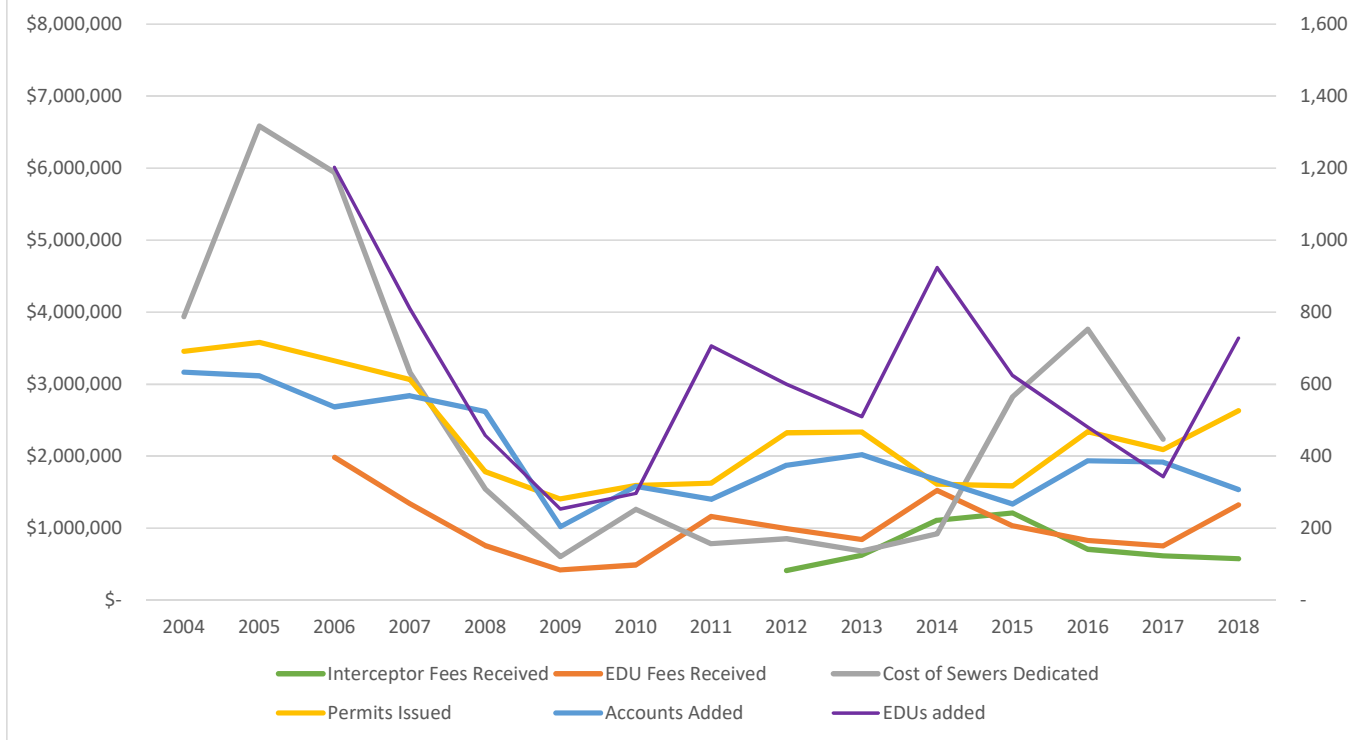
### Financials

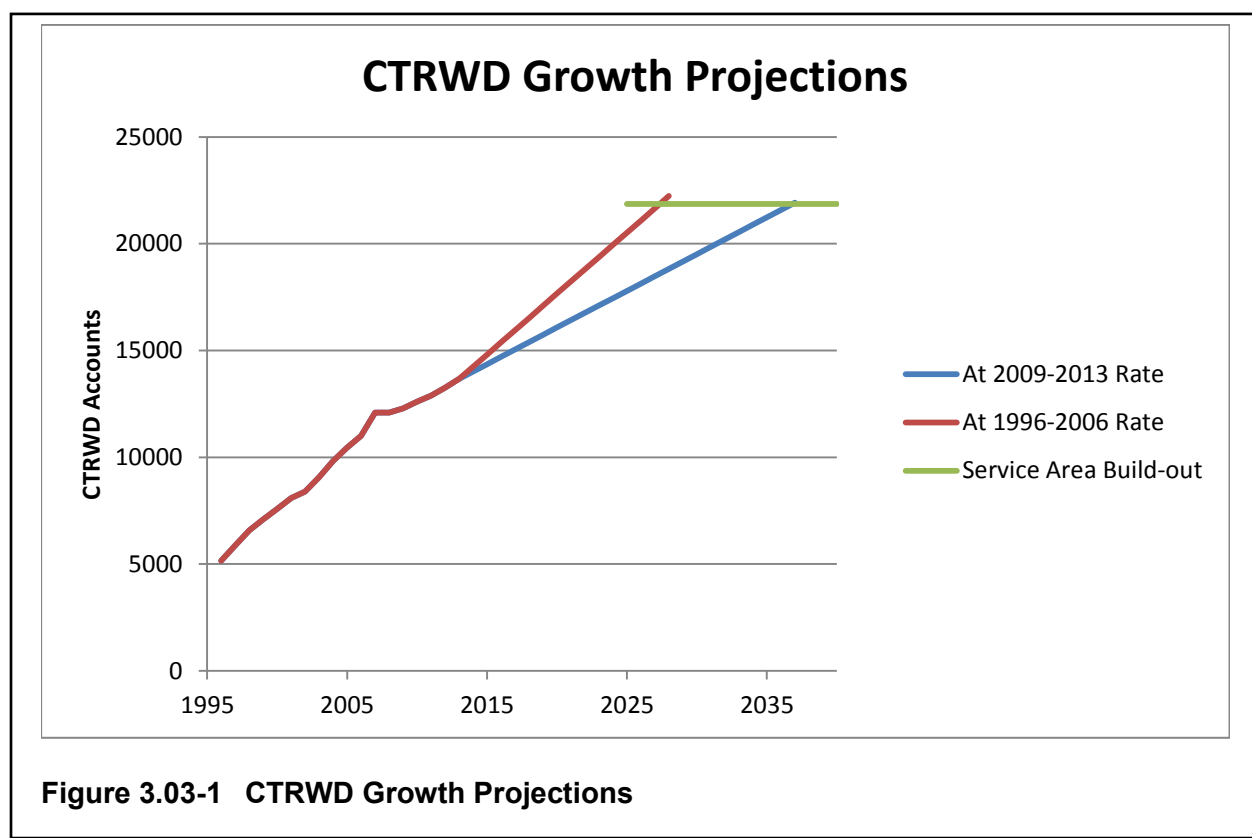
The recommended scope of work for the 2020-2021 project is estimated to cost \$13.4 million – see the attached breakdown of project costs. It is unlikely TriCo would be able to fund this and other scheduled projects, while maintaining adequate cash reserves, without financing. Financial information was analyzed by O.W. Krohn & Associates to determine financing need, options, and risk in an economic downturn (report attached). O.W. Krohn & Associates recommends a 10-year bond for up to \$6.5 million, with an option to call (pay it off early) after five years. The results of this analysis will be presented separately.

Funding for plant improvement projects will ultimately be paid for by Connection (EDU) Fees - except the belt filter press replacement, generator replacement, and smaller clarifier replacements will be paid for by the Reserve for Replacement fund. Connection (EDU) Fees should increase by 5 percent annually through 2021 with no further increases anticipated.

Recommendation: Direct staff to proceed with the 2020-2021 plant expansion project as outlined above, including the addition of a third mechanical screen, grit removal, three VLRs, a secondary clarifier, a third UV disinfection channel and backup power upgrades.

# TriCo Growth History (2018 projected)





A summary of the existing and proposed flows for the CTRWD Service Area is shown in Table 3.04-1. A summary of the existing and proposed loadings for the Michigan Road WWTP is shown in Table 3.04-2. A 10 percent reserve factor has been added to the flow values for unplanned commercial or other growth.

Table 3.03-2 shows that the total daily average flow from the CTRWD service area has increased, as discussed above, to 4.40 mgd average to date in 2014. Note also that the balance of flow has tilted toward the Michigan Road WWTP because of the capacity increase from the recent improvements projects. CTRWD has sent all flow from LS No. 2 to the Michigan Road WWTP for approximately a month, and the remaining flow from LS No. 1 to the Carmel WWTP has averaged 1.08 mgd.

The expected 7,963 additional EDUs (customers) to build-out, at 311 gpd per EDU, results in 2.48 mgd of additional average daily flow. Adding this to the existing 4.40 mgd yields a proposed total average daily flow of 6.88 mgd for the current service area. With the addition of a 10 percent reserve factor, the anticipated average daily flow at build-out is 7.57 mgd.

The Master Plan predicted an additional 9.08 mgd of peak hourly flow. This value was a sum of the peak flows for each lift station basin, each of which had an individual peaking factor. The overall peaking factor was 3.18 for this 9.08 mgd. For the 1,813 (13,900 - 12,087) customers which have been connected since the Master Plan, using this same peaking factor of 3.18 yields a peak hourly flow of 1.79 mgd. Therefore, an additional  $9.08 - 1.79 = 7.29$  mgd of peak hourly flow is yet anticipated at

Attachment: Project Cost Breakdown & Estimate by GRW Engineers in 2018  
(Baseline Scenario Phase 1 Construction 2020-2021; Phase 2 Construction 2026-2027)

**Table No.4**  
**Project Cost Summary**

Description	Baseline		Scenario A1	Scenario A2	
	Phase 1 - 2021	Phase 2 - 2027	Full Build Out - 2021	Phase 1 - 2021	Phase 2 - 2027
P1 - Mechanical Fine Screen	\$274,000	---	\$274,000	\$274,000	---
P2 - Grit Removal & Class.	\$1,593,000	---	\$1,593,000	\$1,593,000	---
B2 & B3 - VLR Aeration <sup>1</sup>	\$3,858,000	---	\$7,424,000	\$3,858,000	\$3,858,000
C1 - Clarifiers <sup>1,2</sup>	\$1,311,000	\$3,189,000	\$4,410,000	\$1,311,000	\$3,189,000
D1 - U.V. Disinfection	\$754,000	---	\$754,000	\$754,000	---
S2 & S3 - Aerobic Digesters	---	---	---	---	---
Replace Sludge Dewatering <sup>3</sup>	---	\$1,100,000	\$1,100,000	---	\$1,100,000
New Emergency Generator	\$400,000	---	\$500,000	\$500,000	---
Bonds, General Conditions, Mobilization @ 8%	\$655,000	\$343,000	\$1,284,000	\$663,000	\$652,000
<b>Construction Sub-Total</b>	<b>\$8,845,000</b>	<b>\$4,632,000</b>	<b>\$17,339,000</b>	<b>\$8,953,000</b>	<b>\$8,799,000</b>
Technical Services and Contingencies @ 35%	\$3,096,000	\$1,621,000	\$6,069,000	\$3,134,000	\$3,080,000
<b>PROJECT COST OPINION (Year 2016)</b>	<b>\$11,941,000</b>	<b>\$6,253,000</b>	<b>\$23,408,000</b>	<b>\$12,087,000</b>	<b>\$11,879,000</b>
<b>PROJECT COST OPINION (Project Year) <sup>4</sup></b>	<b>\$13,432,000</b>	<b>\$8,900,000</b>	<b>\$26,331,000</b>	<b>\$13,596,000</b>	<b>\$16,908,000</b>

<sup>1</sup> The prior GRW 11/2016 memo included demolition of existing 40' diameter clarifiers in this line item to match the 2014 PER format.

However, for this supplemental report this demolition has been removed and included in the C1-Clarifiers line item where applicable.

<sup>2</sup> In addition to Note 1 above, the clarifier equipment cost amounts have been revised since the 11/2016 memo for Baseline and Scenario A2.

<sup>3</sup> Refer to Appendix A - taken as approximate average of Appendix A1, A2, and A4 options before mark-ups and adjusted down for Year 2016.

<sup>4</sup> Assume 4% per year average inflation and bidding two years prior to the Phase/Scenario Year date (i.e. Years 2019 and 2025).

### 5. Plant capacity with three VLRs and one 70' clarifier constructed by the 2021 expansion project.

As noted in Item 4 above, three additional VLR's (7 total) and one additional 70 ft. clarifier (4 total) would result in an ADF rating of 4.56 MGD, PHF capacity of 19.2 MGD, and CBOD<sub>5</sub> capacity of 9,130 lbs/day. Under the Growth Projection Table (Table No.5 in the 11/2016 memo), this capacity should be adequate through 2026 for both the Baseline and Scenario A. Depending on exact timing, some additional flow may potentially need to be sent to Carmel under Scenario A in Year 2027 if growth varies from the projections or if construction is delayed.

**Table No.5** is provided to present a quick reference summary of the estimated ADF, PHF and CBOD<sub>5</sub> loading based on the quantity of VLRs/Oxidation ditch and final clarifiers in service.






# **TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties**



## **Special Purpose Report Capital Project Feasibility Projections**

*July 20, 2018*



**O.W. Krohn & Associates, LLP**  
*CPA's and Consultants*

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Otto W. Krohn, CPA, CMC  
James W. Treat, CPA

231 E. Main Street, Westfield, Indiana 46074

American Institute of CPAs  
Indiana CPA Society

July 19, 2018

Mr. Andrew Williams  
TriCo Regional Sewer Utility  
10701 North College Avenue, Suite A  
Indianapolis, Indiana 46280

Re: Capital Project Feasibility Projections

The attached schedules as listed below represent unaudited and limited financial information for the purpose of discussion and consideration by Members of the Board. The projected operating expenditures are based upon information provided by the Utility. The actual results may vary because events and circumstances frequently do not occur as expected and such variances may be material. Use of these schedules should be limited to the proposed change in rates and charges of the Utility.

Page  
Number

1	Cash Operating Receipts & Expenditures (2015-2017)
2	Cash & Investments by Fund (2015-2017)
3	Calculation of Current & Projected Cost per MG
4	Schedule of Projected Receipts & Disbursements
5	Comparison of Financing Costs – Bond vs. Short-term Credit Line
6	Schedule of Prior, Current & Projected Monthly User Rates
7	Monthly Wastewater Rate Comparison
8	Chart – Monthly Rate Comparison – 4,000 Gallons
9	Chart – Monthly Rate Comparison – 7,500 Gallons
10	Schedule of Projected Receipts & Disbursements (2018-2038)
11	Schedule of Projected Receipts & Disbursements with 3-year Recession (2018-2038)

We would appreciate your questions and comments on this information and will provide any additional information that we have available upon request.

*O.W. Krohn & Associates, LLP*  
O.W. Krohn & Associates, LLP

## TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

Cash Operating Receipts (For the 12 Months Ended December 31st)		2017	2016	2015
Total Charges for Services		\$ 7,078,480	\$ 6,575,693	\$ 6,523,222
Total Utility Penalties		94,379	73,751	76,215
Earnings on Investments and Deposits		141,922	160,856	121,897
Other Receipts/4801 - Misc		68,466	234,181	-
<b>Total Cash Receipts</b>		<b>\$ 7,383,247</b>	<b>\$ 7,044,481</b>	<b>\$ 6,721,334</b>
Cash Operating Expenditures (For the 12 Months Ended December 31st)		2017	2016	2015
Salaries and Wages		\$ 1,408,270	\$ 1,395,761	\$ 1,278,517
Insurance		98,546	92,480	88,651
Bad Debt		107	-	21
Contractual Services		462,575	369,275	390,788
Employee Pensions and Benefits		545,869	547,515	536,391
Materials and Supplies		134,274	434,613	497,214
Purchase Power		-	378,517	373,529
Purchased Wastewater Treatment		1,027,132	1,046,735	731,734
Sludge Removal & Transportation		155,900	156,535	231,864
Sub-total WWTP Operations		3,832,673	4,421,431	4,128,709
Admin & Contract Services		1,351,566	705,848	787,629
Total O&M Disbursements		\$ 5,184,239	\$ 5,127,279	\$ 4,916,338
<b>Net Operating Receipts (Annual)</b>		<b>\$ 2,199,008</b>	<b>\$ 1,917,202</b>	<b>\$ 1,804,996</b>
Non-Operating Receipts & Expenditures		2017	2016	2015
Annual Growth - EDUs / Yr = 400				
Wastewater Construction Fund Receipts	\$1,800	\$ 617,128	\$ 706,605	\$ 1,211,306
Wastewater Improvement Fund Receipts	2 EDUs / Acre \$2,000	750,443	829,434	1,029,867
Bond / BAN Proceeds	Terms Coverage			
Principal & Interest on Long-Term Debt	15yr @ 3.0% 211.7%			
Capital Replacements, Improvements & Outlays		(9,184,497)	(3,858,783)	(2,291,899)
<b>Net Non-Operating Receipts &amp; Expenditures</b>		<b>\$ (7,816,926)</b>	<b>\$ (2,322,744)</b>	<b>\$ (50,726)</b>
<b>Net Increase (Decrease) in Cash &amp; Investments</b>		<b>(5,617,918)</b>	<b>(405,542)</b>	<b>1,754,270</b>
<b>Beginning Cash &amp; Investments</b>		<b>12,392,390</b>	<b>12,704,071</b>	<b>10,949,801</b>
<b>Ending Cash &amp; Investments</b>		<b>\$ 6,774,472</b>	<b>\$ 12,298,529</b>	<b>\$ 12,704,071</b>

## TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

	Beg Cash & Inv Bal Jan 1, 2017	Receipts	Disbursement	End Cash & Inv Bal Dec 31, 2017
<b>Cash &amp; Investments by Fund</b>				
Wastewater Utility - Construction	\$ 2,322,331	\$ 617,128	\$ 2,890,078	\$ 49,381
Wastewater Utility - Improvement	2,931,246	750,443	45,302	3,636,387
Wastewater Utility - Operating	4,307,001	7,383,247	11,126,016	564,232
Wastewater Utility - Operating Reserve	2,192,400	-	-	2,192,400
Wastewater Utility - Petty Cash	200	-	-	200
Wastewater Utility - Reserve For Repl	639,212	-	307,340	331,872
<b>TOTALS</b>	<b>\$ 12,392,390</b>	<b>\$ 8,750,818</b>	<b>\$ 14,368,736</b>	<b>\$ 6,774,472</b>
<b>Utility Plant in Service</b>				<b>\$ 156,242,316</b>

	Beg Cash & Inv Bal Jan 1, 2016	Receipts	Disbursement	End Cash & Inv Bal Dec 31, 2016
<b>Cash &amp; Investments by Fund</b>				
Wastewater Utility - Construction	\$ 2,183,670	\$ 706,605	\$ 661,605	\$ 2,228,670
Wastewater Utility - Improvement	2,103,462	829,434	1,650	2,931,246
Wastewater Utility - Operating	4,434,506	7,044,481	7,172,186	4,306,801
Wastewater Utility - Operating Reserve	2,192,400	-	-	2,192,400
Wastewater Utility - Petty Cash	200	-	-	200
Wastewater Utility - Reserve For Repl	1,789,833	500,000	1,650,621	639,212
<b>TOTALS</b>	<b>\$ 12,704,071</b>	<b>\$ 9,080,520</b>	<b>\$ 9,486,062</b>	<b>\$ 12,298,529</b>
<b>Utility Plant in Service</b>				<b>\$ 145,018,835</b>

## TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

	Beg Cash & Inv Bal Jan 1, 2015	Receipts	Disbursement	End Cash & Inv Bal Dec 31, 2015
<b>Cash &amp; Investments by Fund</b>				
Wastewater Utility - Construction	\$ 1,861,920	\$ 1,211,305	\$ 889,556	\$ 2,183,669
Wastewater Utility - Improvement	1,302,264	1,029,867	228,669	2,103,462
Wastewater Utility - Operating	2,874,716	6,721,334	5,161,544	4,434,506
Wastewater Utility - Operating Reserve	2,192,400	-	-	2,192,400
Wastewater Utility - Petty Cash	200	-	-	200
Wastewater Utility - Reserve For Repl	2,718,301	-	928,467	1,789,834
<b>TOTALS</b>	<b>\$ 10,949,801</b>	<b>\$ 8,962,506</b>	<b>\$ 7,208,236</b>	<b>\$ 12,704,071</b>
<b>Utility Plant in Service</b>				<b>\$ 136,227,892</b>

## TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

<b>Cash &amp; Investments by Fund</b>	<b>Beg Cash &amp; Inv Bal Jan 1, 2017</b>	<b>Receipts</b>	<b>Disbursement</b>	<b>End Cash &amp; Inv Bal Dec 31, 2017</b>
Wastewater Utility - Construction	\$ 2,322,331	\$ 617,128	\$ 2,890,078	\$ 49,381
Wastewater Utility - Improvement	2,931,246	750,443	45,302	3,636,387
Wastewater Utility - Operating	4,307,001	7,383,247	11,126,016	564,232
Wastewater Utility - Operating Reserve	2,192,400	-	-	2,192,400
Wastewater Utility - Petty Cash	200	-	-	200
Wastewater Utility - Reserve For Repl	639,212	-	307,340	331,873
<b>TOTALS</b>	<b>\$ 12,392,390</b>	<b>\$ 8,750,818</b>	<b>\$ 14,368,736</b>	<b>\$ 6,774,473</b>
<b>Utility Plant in Service</b>				<b>\$156,242,316</b>
<b>Long-Term Debt</b>				<b>N/A</b>
<b>20 Yr Capital Improvement Plan - Estimated Total Cost</b>				<b>\$50M - \$55M</b>
			<b>EDUS</b>	<b>MGD</b>
Existing User Base			14,900	4.619
Growth Projection (15-20 Yr)			7,000	2.170
Projected User Base (2033 - 2038)			21,900	6.789
<b>Total Capacity - MGD</b>			<b>Average Daily Flows - MGD</b>	
<b>Current</b>		<b>Proposed</b>	<b>Current</b>	<b>Projected</b>
Carmel ADF - MGD	3.060	3.060	2.019	2.789
TriCo ADF - MGD	3.050	4.560	2.600	4.000
<b>Total ADF - MGD</b>	<b>6.110</b>	<b>7.620</b>	<b>4.619</b>	<b>6.789</b>
			<b>Current</b>	<b>Projected</b>
Carmel WWTP Charges			\$ 1,027,132	\$ 1,418,856
TriCo Collection / Treatment Costs	<i>Var. Costs</i>	<b>\$615,000</b>	\$ 4,157,107	\$ 4,488,261
Total Annual Cost			\$ 5,184,239	\$ 5,907,117
<b>Carmel WWTP</b>		<b>TriCo Var.</b>	<b>Current</b>	<b>Projected</b>
<b>Variable Cost per MG</b>	<b>\$1,393.79</b>	<b>\$648.05</b>	<b>\$3,074.99</b>	<b>\$2,383.84</b>



## TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

Detailed Cash Operating Receipts for Calendar Year 2017 & Projected Cash Receipts		Test Year Actual Cash Flow	Projected Bonding Capacity \$12.5M
		<i>2.0%</i>	
Total Charges for Services		\$ 7,078,480	\$ 7,220,050
Total Utility Penalties		94,379	96,267
Earnings on Investments and Deposits		141,922	144,760
Other Receipts/4801 - Misc		68,466	69,835
<b>Total Cash Receipts</b>		<b>\$ 7,383,247</b>	<b>\$ 7,530,912</b>
Detailed O&M Disbursements for Calendar Year 2017 & Projected O&M Disbursements		Test Year Amount	Projected Amount
		<i>3.5%</i>	
Salaries and Wages		\$ 1,408,270	\$ 1,457,559
Insurance		98,546	101,995
Bad Debt		107	111
Contractual Services		462,575	478,765
Employee Pensions and Benefits		545,869	564,974
Materials and Supplies		134,274	138,974
Purchased Wastewater Treatment		1,027,132	1,063,082
Sludge Removal & Transportation		155,900	161,357
Sub-total WWTP Operations		3,832,673	3,966,817
Admin & Contract Services		1,351,566	1,398,871
Total O&M Disbursements		\$ 5,184,239	\$ 5,365,687
<b>Net Operating Receipts</b>		<b>\$ 2,199,008</b>	<b>\$ 2,165,225</b>
Non-Operating Receipts & Expenditures		Test Year Amount	Projected Amount
Annual Growth - EDUs / Yr = 500			
Wastewater Construction Fund Receipts	\$1,800	\$ 617,128	\$ 900,000
Wastewater Improvement Fund Receipts	2 EDUs / Acre \$2,000	750,443	1,000,000
Bond / BAN Proceeds	<u>Terms</u> <u>Coverage</u>		12,500,000
Principal & Interest on Long-Term Debt	15yr @ 3.0% 206.8%		(1,047,082)
Capital Replacements, Improvements & Outlays		(9,184,496)	(14,400,000)
<b>Net Non-Operating Receipts &amp; Expenditures</b>		<b>\$ (7,816,925)</b>	<b>\$ (1,047,082)</b>
<b>Net Increase (Decrease) in Cash &amp; Investments</b>		<b>(5,617,917)</b>	<b>1,118,142</b>
<b>Beginning Cash &amp; Investments</b>		<b>12,392,390</b>	<b>6,774,473</b>
<b>Ending Cash &amp; Investments</b>		<b>\$ 6,774,473</b>	<b>\$ 7,892,615</b>

Preliminary - For Deliberative Purposes

**TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties**

**Comparison of Financing Costs - Bonds vs. Short-Term Credit Line**

		<i>Illustration</i>	<i>Baseline Illustration</i>	
		<b><u>Bond Issue</u></b>	<b><u>Credit Line</u></b>	<b><u>Variance</u></b>
		<i>10 Yr Amort</i>	<i>8 Yr Term</i>	
<b>Principal Amount of Borrowing</b>		<b>\$ 6,500,000</b>	<b>\$ 6,500,000</b>	<b>\$ -</b>
	<i>1 Time</i>	<i>10 Yr Total</i>	<i>Per Yr</i>	<i>8 Yr Total</i>
<b>Issuance Cost vs. LOC Fees</b>	<b>2.0%</b>	<b>130,000</b>	<b>0.5%</b>	<b>260,000</b>
	<i>Per Yr</i>		<i>Per Yr</i>	
<b>Interest Costs</b>	<b>3.0%</b>	<b>761,998</b>	<b>4.0%</b>	<b>990,000</b>
		<b>\$ 891,998</b>	<b>\$ 1,250,000</b>	<b>\$ (358,002)</b>

**Preliminary - For Deliberative Purposes**

# TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

## SCHEDULE OF PRIOR, CURRENT & PROJECTED MONTHLY USER RATES

Metered Users:	Actual Monthly Rates		Projected Monthly Rates - Not Final			
	2017	2018	2019	2020	2021	2022
			5.0%	5.0%	0.0%	0.0%
(1) Treatment Rate (per 1,000 Gallons)	\$ 2.73	\$ 2.86	\$ 3.00	\$ 3.15	\$ 3.15	\$ 3.15
<i>Average Bill @ 4,100 Gal / Mo</i>	<i>\$ 24.00</i>	<i>\$ 25.20</i>	<i>\$ 26.45</i>	<i>\$ 27.78</i>	<i>\$ 27.78</i>	<i>\$ 27.78</i>
(2) Base Rate (per month)						
5/8 inch water meter	\$ 12.81	\$ 13.45	\$ 14.12	\$ 14.83	\$ 14.83	\$ 14.83
3/4 inch water meter (residential)	12.81	13.45	14.12	14.83	14.83	14.83
3/4 inch water meter	16.13	16.93	17.78	18.67	18.67	18.67
1 inch water meter (residential)	12.81	13.45	14.12	14.83	14.83	14.83
1 inch water meter	25.29	26.55	27.88	29.27	29.27	29.27
1 1/4 inch water meter	37.82	39.71	41.70	43.78	43.78	43.78
1 1/2 inch water meter	50.30	52.81	55.45	58.22	58.22	58.22
2 inch water meter	87.82	92.21	96.82	101.66	101.66	101.66
3 inch water meter	196.19	205.99	216.29	227.10	227.10	227.10
4 inch water meter	337.89	354.78	372.52	391.14	391.14	391.14
6 inch water meter	763.00	801.15	841.21	883.27	883.27	883.27
8 inch water meter	1,355.63	1,423.41	1,494.58	1,569.31	1,569.31	1,569.31
Unmetered Users:	Actual Monthly Rates		Projected Monthly Rates - Not Final			
	2017	2018	2019	2020	2021	2022
<u>Residential:</u>						
Single family residence/unit	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Apartment or trailer court/unit	23.94	25.13	26.39	27.71	27.71	27.71
Duplexes	63.84	67.03	70.38	73.90	73.90	73.90
Triplexes	95.76	100.54	105.57	110.85	110.85	110.85
<u>Commercial:</u>	Actual Monthly Rates		Projected Monthly Rates - Not Final			
	2017	2018	2019	2020	2021	2022
Retail establishment:						
First 3 employees	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional employee	7.98	8.37	8.79	9.23	9.23	9.23
Gasoline service station:						
With car wash facilities	\$ 71.87	\$ 75.46	\$ 79.23	\$ 83.19	\$ 83.19	\$ 83.19
Without car wash facilities	47.91	50.30	52.82	55.46	55.46	55.46
Restaurants, drive-ins and taverns with eating and/or drinking facilities:						
First 2 employees	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional employee	10.53	11.05	11.60	12.18	12.18	12.18
Laundromats - per washer	23.25	24.41	25.63	26.91	26.91	26.91
Car wash, manual - per bay	71.87	75.46	79.23	83.19	83.19	83.19
Professional office:						
First 2 employees	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional employee	10.53	1.33	1.40	1.47	1.47	1.47
<u>Governmental/Institutional:</u>	Actual Monthly Rates		Projected Monthly Rates - Not Final			
	2017	2018	2019	2020	2021	2022
School/student:						
First 25 students	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional student	1.27	8.37	8.79	9.23	9.23	9.23
Churches, lodges and veterans organizations w/o eating or drinking						
For each 200 members or fraction thereof	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Government offices:						
First 3 employees	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional employee	7.98	8.37	8.79	9.23	9.23	9.23
Industrial (sanitary flow only):						
First 3 employees	\$ 31.92	\$ 33.51	\$ 35.19	\$ 36.94	\$ 36.94	\$ 36.94
Each additional employee	7.98	8.37	8.79	9.23	9.23	9.23

2017 Per Ordinance No. 05-08-2017-A effective July 1, 2017.

2018 Per Ordinance No. 05-14-2018-A effective July 1, 2018.



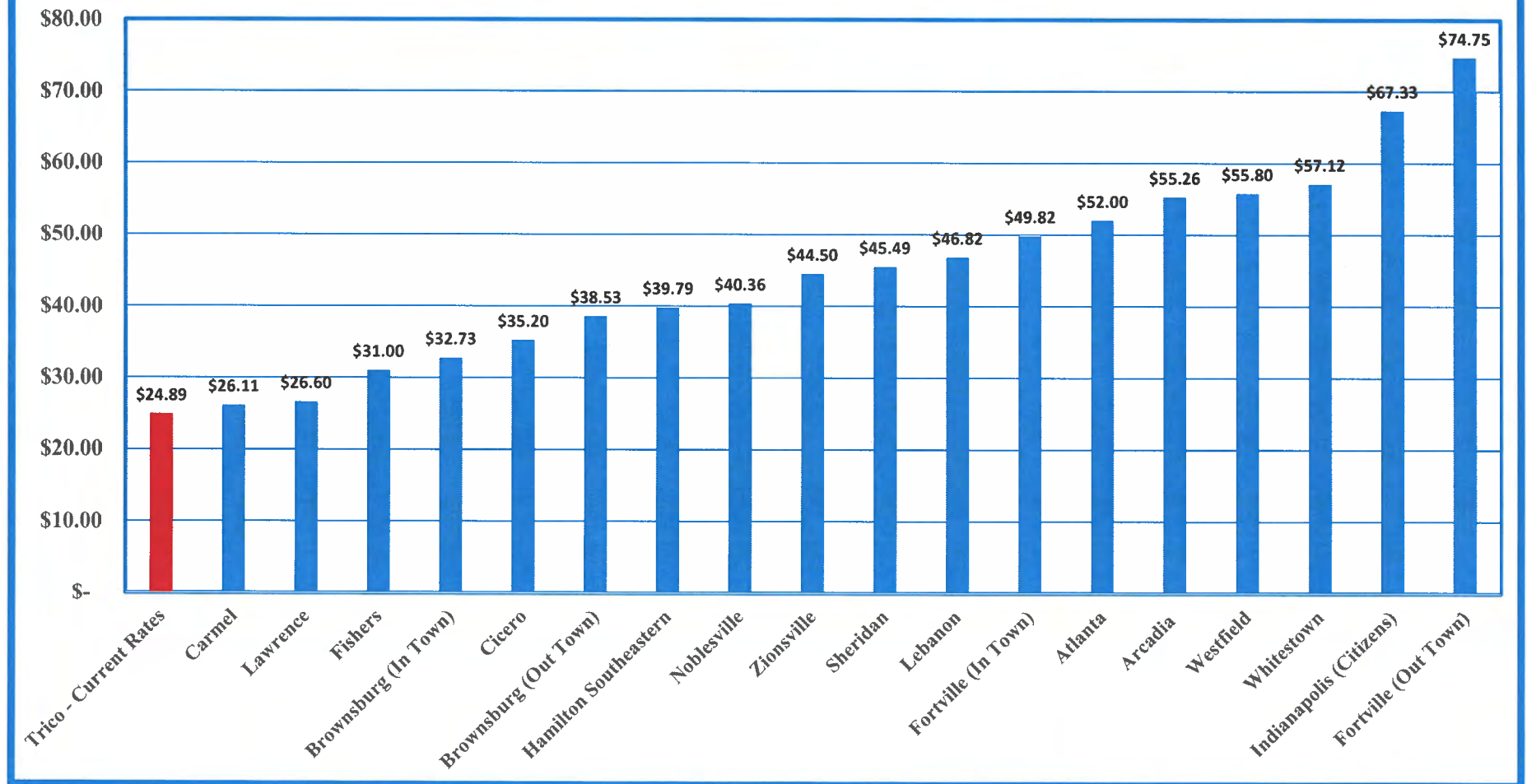
# TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties

## MONTHLY WASTEWATER RATE COMPARISON

	<u>0 Gallons</u>	<u>2,000 Gallons</u>	<u>3,000 Gallons</u>	<u>4,000 Gallons</u>	<u>5,000 Gallons</u>	<u>7,500 Gallons</u>	<u>10,000 Gallons</u>
<b>Trico - Current Rates</b>	<b>\$13.45</b>	<b>\$19.17</b>	<b>\$22.03</b>	<b>\$24.89</b>	<b>\$27.75</b>	<b>\$34.90</b>	<b>\$42.05</b>
<b>Arcadia</b>	<b>\$26.10</b>	<b>\$40.68</b>	<b>\$47.97</b>	<b>\$55.26</b>	<b>\$62.55</b>	<b>\$87.84</b>	<b>\$99.00</b>
<b>Atlanta</b>	<b>31.52</b>	<b>31.52</b>	<b>41.76</b>	<b>52.00</b>	<b>62.24</b>	<b>76.80</b>	<b>113.44</b>
<b>Brownsburg (In Town)</b>	<b>10.85</b>	<b>21.79</b>	<b>27.26</b>	<b>32.73</b>	<b>38.20</b>	<b>51.88</b>	<b>65.55</b>
<b>Brownsburg (Out Town)</b>	<b>16.65</b>	<b>27.59</b>	<b>33.06</b>	<b>38.53</b>	<b>44.00</b>	<b>57.68</b>	<b>71.35</b>
<b>Carmel</b>	<b>8.71</b>	<b>17.41</b>	<b>21.76</b>	<b>26.11</b>	<b>30.46</b>	<b>41.34</b>	<b>52.21</b>
<b>Cicero</b>	<b>26.40</b>	<b>26.40</b>	<b>26.40</b>	<b>35.20</b>	<b>44.00</b>	<b>63.75</b>	<b>83.50</b>
<b>Fishers</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>
<b>Fortville (In Town)</b>	<b>25.06</b>	<b>37.44</b>	<b>43.63</b>	<b>49.82</b>	<b>56.01</b>	<b>71.49</b>	<b>86.96</b>
<b>Fortville (Out Town)</b>	<b>37.59</b>	<b>56.17</b>	<b>65.46</b>	<b>74.75</b>	<b>84.04</b>	<b>107.27</b>	<b>130.49</b>
<b>Hamilton Southeastern</b>	<b>39.79</b>	<b>39.79</b>	<b>39.79</b>	<b>39.79</b>	<b>39.79</b>	<b>39.79</b>	<b>39.79</b>
<b>Indianapolis (Citizens)</b>	<b>39.57</b>	<b>39.57</b>	<b>39.57</b>	<b>67.33</b>	<b>53.16</b>	<b>70.37</b>	<b>87.58</b>
<b>Lawrence</b>	<b>26.60</b>	<b>26.60</b>	<b>26.60</b>	<b>26.60</b>	<b>30.42</b>	<b>43.99</b>	<b>57.57</b>
<b>Lebanon</b>	<b>16.65</b>	<b>31.71</b>	<b>39.27</b>	<b>46.82</b>	<b>54.33</b>	<b>73.19</b>	<b>92.06</b>
<b>Noblesville</b>	<b>40.36</b>	<b>40.36</b>	<b>40.36</b>	<b>40.36</b>	<b>40.36</b>	<b>40.36</b>	<b>40.36</b>
<b>Sheridan</b>	<b>17.37</b>	<b>31.43</b>	<b>38.46</b>	<b>45.49</b>	<b>52.52</b>	<b>70.10</b>	<b>87.67</b>
<b>Westfield</b>	<b>55.80</b>	<b>55.80</b>	<b>55.80</b>	<b>55.80</b>	<b>55.80</b>	<b>74.91</b>	<b>94.02</b>
<b>Whitestown</b>	<b>37.04</b>	<b>47.08</b>	<b>52.10</b>	<b>57.12</b>	<b>62.14</b>	<b>74.69</b>	<b>87.24</b>
<b>Zionsville</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>	<b>44.50</b>

Preliminary - For Deliberative Purposes

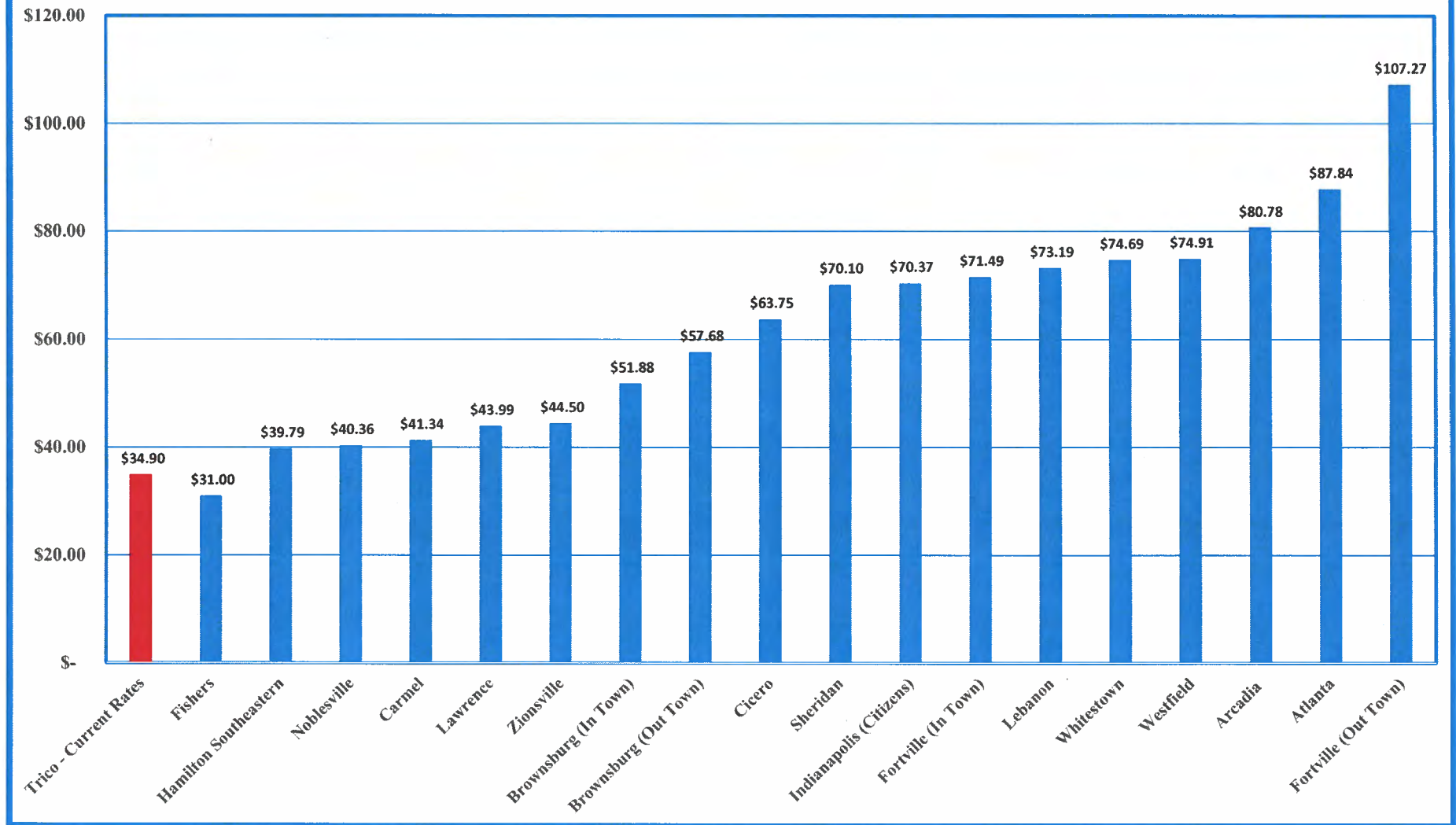
**TRICO REGIONAL SEWER UTILITY  
MONTHLY RATE COMPARISON WITH NEIGHBORING COMMUNITIES  
Based on 5/8" meter - 4,000 gallons**



**Preliminary - For Deliberative Purposes**

**TRICO REGIONAL SEWER UTILITY  
MONTHLY RATE COMPARISON WITH NEIGHBORING COMMUNITIES**

**Based on 5/8" meter - 7,500 gallons**



**Preliminary - For Deliberative Purposes**

TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties																								
Detailed Cash Operating Receipts for Calendar Year 2017 & Projected Cash Receipts	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038		
					Rates Level Out												Full Build Out							
Annual Rate Increases thru 2020: 5.0%		\$24.00	\$25.20	\$26.46	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$28.62	\$29.47	\$30.36	\$31.27	\$32.21	\$33.17	\$34.17	
Retail Charges for Sewer Services - Baseline Users (2033) 3.0%		\$ 7,078,480	\$ 7,220,050	\$ 7,581,052	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 8,198,908	\$ 8,444,875	\$ 8,698,221	\$ 8,959,168	\$ 9,227,943	\$ 9,504,781	\$ 9,789,925	
Retail Charges for Sewer Services - Growth after 2017 500			151,200	317,520	500,094	666,792	833,490	1,000,188	1,166,886	1,333,584	1,500,282	1,666,980	1,833,678	2,000,376	2,167,074	2,333,772	2,575,484	2,652,749	2,732,331	2,814,301	2,898,730	2,985,692	3,075,263	
Total Utility Penalties		94,379	96,267	101,080	106,134	111,441	117,013	122,863	129,006	135,457	142,230	149,341	156,808	164,649	172,881	172,881	178,067	178,067	178,067	178,067	178,067	178,067	178,067	
Earnings on Investments and Deposits		141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	
Other Receipts/4801 - Misc		68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	
Total Cash Receipts		\$ 7,383,247	\$ 7,677,904	\$ 8,210,040	\$ 8,776,721	\$ 8,948,725	\$ 9,120,995	\$ 9,293,544	\$ 9,466,385	\$ 9,639,533	\$ 9,813,004	\$ 9,986,814	\$ 10,160,979	\$ 10,335,517	\$ 10,510,448	\$ 10,677,146	\$ 11,162,847	\$ 11,486,079	\$ 11,819,008	\$ 12,161,924	\$ 12,515,128	\$ 12,878,929	\$ 13,253,643	
Detailed O&M Disbursements for Calendar Year 2017 & Projected O&M Disbursements	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038		
Annual O&M Increases as per Mgmt OR Increased Annually by 3.50%																								
Salaries and Wages	\$ 1,408,270	\$ 1,457,559	\$ 1,508,574	\$ 1,561,374	\$ 1,616,022	\$ 1,672,583	\$ 1,731,123	\$ 1,791,713	\$ 1,854,423	\$ 1,919,327	\$ 1,986,504	\$ 2,056,032	\$ 2,127,993	\$ 2,202,472	\$ 2,279,559	\$ 2,359,343	\$ 2,441,921	\$ 2,527,388	\$ 2,615,846	\$ 2,707,401	\$ 2,802,160	\$ 2,900,236		
Insurance	98,546	101,995	105,565	109,260	113,084	152,663	158,006	163,537	169,260	175,184	181,316	187,662	194,230	201,028	208,064	215,346	222,884	230,684	238,758	247,115	255,764	264,716		
Bad Debt	107	111	115	119	123	127	132	136	141	146	151	156	162	167	173	179	186	192	199	206	213	220		
Contractual Services	462,575	478,765	495,522	512,865	530,815	690,060	714,212	739,210	765,082	791,860	819,575	848,260	877,949	908,677	940,481	973,398	1,007,467	1,042,728	1,079,224	1,116,996	1,156,091	1,196,555		
Employee Pensions and Benefits	545,869	564,974	584,749	605,215	626,397	648,321	671,012	694,498	718,805	743,963	770,002	796,952	824,846	853,715	883,595	914,521	946,529	979,658	1,013,946	1,049,434	1,086,164	1,124,180		
Materials and Supplies	134,274	138,974	143,838	148,872	154,083	200,307	207,318	214,574	222,084	229,857	237,902	246,229	254,847	263,766	272,998	282,553	292,443	302,678	313,272	324,236	335,585	347,330		
Purchased Wastewater Treatment	1,027,132	1,074,465	1,184,194	1,311,407	1,446,076	1,040,000	1,075,000	1,115,000	1,160,000	1,225,000	1,380,000	1,540,000	1,710,000	1,890,000	2,085,000	2,270,000	2,350,000	2,430,000	2,515,000	2,600,000	2,700,000	2,800,000		
Sludge Removal & Transportation	155,900	161,357	167,004	172,849	178,899	232,568	240,708	249,133	257,853	266,878	276,218	285,886	295,892	306,248	316,967	328,061	339,543	351,427	363,727	376,457	389,633	403,271		
Sub-total WWTP Operations	3,832,673	3,978,200	4,189,560	4,421,960	4,665,499	4,636,630	4,797,512	4,967,800	5,147,648	5,352,216	5,651,668	5,961,177	6,285,918	6,626,075	6,986,838	7,343,402	7,600,971	7,864,755	8,139,972	8,421,846	8,725,610	9,036,507		
Admin & Contract Services	1,351,566	1,398,871	1,447,831	1,498,505	1,550,953	1,605,236	1,661,420	1,719,569	1,779,754	1,842,046	1,906,517	1,973,245	2,042,309	2,113,790	2,187,772	2,264,345	2,343,597	2,425,622	2,510,519	2,598,387	2,689,331	2,783,458		
Total O&M Disbursements	\$ 5,184,239	\$ 5,377,071	\$ 5,637,391	\$ 5,920,466	\$ 6,216,452	\$ 6,241,867	\$ 6,458,932	\$ 6,687,370	\$ 6,927,402	\$ 7,194,262	\$ 7,558,186	\$ 7,934,422	\$ 8,328,227	\$ 8,739,865	\$ 9,174,610	\$ 9,607,747	\$ 9,944,568	\$ 10,290,378	\$ 10,650,491	\$ 11,020,233	\$ 11,414,941	\$ 11,819,964		
Net Operating Receipts	\$ 2,199,008	\$ 2,300,833	\$ 2,572,649	\$ 2,856,255	\$ 2,732,273	\$ 2,879,129	\$ 2,834,612	\$ 2,779,016	\$ 2,712,131	\$ 2,618,743	\$ 2,428,628	\$ 2,226,557	\$ 2,007,290	\$ 1,770,583	\$ 1,502,535	\$ 1,555,101	\$ 1,541,511	\$ 1,528,630	\$ 1,511,434	\$ 1,494,895	\$ 1,463,987	\$ 1,433,679		
Non-Operating Receipts & Expenditures	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038		
Annual Growth - EDUs / Yr = 500		\$1,818	\$1,909	\$2,004	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105		
Wastewater Construction Fund Receipts \$1,800	\$ 617,128	\$ 909,000	\$ 954,450	\$ 1,002,173	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	Build							
Wastewater Improvement Fund Receipt 3 EDUs / Acre \$1,420	750,443	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	Out							
Draw BAN Proceeds (Principal Payments) \$6,500,000			1,500,000	2,500,000	2,500,000	(1,500,000)	(1,750,000)	(2,000,000)	(1,250,000)															
Interest on Debt Obligations 4.0%			(30,000)	(110,000)	(210,000)	(260,000)	(200,000)	(130,000)	(50,000)	-	-	-	-	-	-	-	-							
Capital Replacements, Improvements & Outlays	(9,184,496)	(3,148,500)	(7,975,000)	(7,465,000)	(6,830,000)	(2,505,000)	(2,330,000)	(2,005,000)	(2,530,000)	(6,400,000)	(4,430,000)	(305,000)	(650,000)	(700,000)	(750,000)	(800,000)	(850,000)	(900,000)	(950,000)	(1,000,000)	(1,050,000)	(1,100,000)		
Net Non-Operating Receipts & Expenditures	\$ (7,816,925)	\$ (1,529,500)	\$ (4,840,550)	\$ (3,362,828)	\$ (2,777,719)	\$ (2,502,719)	\$ (2,517,719)	\$ (2,372,719)	\$ (2,067,719)	\$ (4,637,719)	\$ (2,667,719)	\$ 1,457,281	\$ 1,112,281	\$ 1,062,281	\$ 1,012,281	\$ 962,281	\$ (850,000)	\$ (900,000)	\$ (950,000)	\$ (1,000,000)	\$ (1,050,000)	\$ (1,100,000)		
Net Increase (Decrease) in Cash & Investments	(5,617,917)	771,333	(2,267,901)	(506,573)	(45,445)	376,410	316,893	406,297	644,412	(2,018,976)	(239,091)	3,683,838	3,119,571	2,832,864	2,514,817	2,517,382	691,511	628,630	561,434	494,895	413,987	333,679		
Beginning Cash & Investments	12,392,390	6,774,473	7,545,806	5,277,905	4,771,333	4,725,887	5,102,297	5,419,190	5,825,487	6,469,899	4,450,923	4,211,832	7,895,670	11,015,241	13,848,105	16,362,921	18,880,303	19,571,815	20,200,445	20,761,878	21,256,774	21,670,761		
Ending Cash & Investments	\$ 6,774,473	\$ 7,545,806	\$ 5,277,905	\$ 4,771,333	\$ 4,725,887	\$ 5,102,297	\$ 5,419,190	\$ 5,825,487	\$ 6,469,899	\$ 4,450,923	\$ 4,211,832	\$ 7,895,670	\$ 11,015,241	\$ 13,848,105	\$ 16,362,921	\$ 18,880,303	\$ 19,571,815	\$ 20,200,445	\$ 20,761,878	\$ 21,256,774	\$ 21,670,761	\$ 22,004,440		



TriCo Regional Sewer Utility - Hamilton, Boone & Marion Counties																							
Detailed Cash Operating Receipts for Calendar Year 2017 & Projected Cash Receipts	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	
					Rates Level Out												3 Yrs to Full Build Out			Full Build Out			
Annual Rate Increases thru 2020: 5.0%		\$24.00	\$25.20	\$26.46	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$27.78	\$28.62	\$29.47	\$30.36	\$31.27	\$32.21	\$33.17	\$34.17	
Retail Charges for Sewer Services - Baseline Users (2033) 3.0%		\$ 7,078,480	\$ 7,220,050	\$ 7,581,052	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 7,960,105	\$ 8,198,908	\$ 8,444,875	\$ 8,698,221	\$ 8,959,168	\$ 9,227,943	\$ 9,504,781	\$ 9,789,925	
Retail Charges for Sewer Services - Growth after 2017 500			151,200	317,520	416,745	520,931	630,327	797,025	963,723	1,130,421	1,297,119	1,463,817	1,630,515	1,797,213	1,963,911	2,130,609	2,366,226	2,525,638	2,692,485	2,867,069	2,953,081	3,041,674	3,132,924
Total Utility Penalties		94,379	96,267	101,080	106,134	111,441	117,013	122,863	129,006	135,457	142,230	149,341	156,808	164,649	172,881	172,881	178,067	178,067	178,067	178,067	178,067	178,067	178,067
Earnings on Investments and Deposits		141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922	141,922
Other Receipts/4801 - Misc		68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466	68,466
Total Cash Receipts		\$ 7,383,247	\$ 7,677,904	\$ 8,210,040	\$ 8,693,372	\$ 8,802,865	\$ 8,917,832	\$ 9,090,381	\$ 9,263,222	\$ 9,436,370	\$ 9,609,841	\$ 9,783,651	\$ 9,957,816	\$ 10,132,354	\$ 10,307,284	\$ 10,473,982	\$ 10,953,589	\$ 11,358,968	\$ 11,779,161	\$ 12,214,693	\$ 12,569,480	\$ 12,934,910	\$ 13,311,304
Detailed O&M Disbursements for Calendar Year 2017 & Projected O&M Disbursements	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	
Annual O&M Increases as per Mgmt OR Increased Annually by 3.50%																							
Salaries and Wages	\$	1,408,270	\$ 1,457,559	\$ 1,508,574	\$ 1,561,374	\$ 1,616,022	\$ 1,672,583	\$ 1,731,123	\$ 1,791,713	\$ 1,854,423	\$ 1,919,327	\$ 1,986,504	\$ 2,056,032	\$ 2,127,993	\$ 2,202,472	\$ 2,279,559	\$ 2,359,343	\$ 2,441,921	\$ 2,527,388	\$ 2,615,846	\$ 2,707,401	\$ 2,802,160	\$ 2,900,236
Insurance		98,546	101,995	105,565	109,260	113,084	152,663	158,006	163,537	169,260	175,184	181,316	187,662	194,230	201,028	208,064	215,346	222,884	230,684	238,758	247,115	255,764	264,716
Bad Debt		107	111	115	119	123	127	132	136	141	146	151	156	162	167	173	179	186	192	199	206	213	220
Contractual Services		462,575	478,765	495,522	512,865	530,815	690,060	714,212	739,210	765,082	791,860	819,575	848,260	877,949	908,677	940,481	973,398	1,007,467	1,042,728	1,079,224	1,116,996	1,156,091	1,196,555
Employee Pensions and Benefits		545,869	564,974	584,749	605,215	626,397	648,321	671,012	694,498	718,805	743,963	770,002	796,952	824,846	853,715	883,595	914,521	946,529	979,658	1,013,946	1,049,434	1,086,164	1,124,180
Materials and Supplies		134,274	138,974	143,838	148,872	154,083	200,307	207,318	214,574	222,084	229,857	237,902	246,229	254,847	263,766	272,998	282,553	292,443	302,678	313,272	324,236	335,585	347,330
Purchased Wastewater Treatment		1,027,132	1,074,465	1,184,194	1,311,407	1,446,076	1,040,000	1,075,000	1,115,000	1,160,000	1,225,000	1,380,000	1,540,000	1,710,000	1,890,000	2,085,000	2,270,000	2,350,000	2,430,000	2,515,000	2,600,000	2,700,000	2,800,000
Sludge Removal & Transportation		155,900	161,357	167,004	172,849	178,899	232,568	240,708	249,133	257,853	266,878	276,218	285,886	295,892	306,248	316,967	328,061	339,543	351,427	363,727	376,457	389,633	403,271
Sub-total WWTP Operations		3,832,673	3,978,200	4,189,560	4,421,960	4,665,499	4,636,630	4,797,512	4,967,800	5,147,648	5,352,216	5,651,668	5,961,177	6,285,918	6,626,075	6,986,838	7,343,402	7,600,971	7,864,755	8,139,972	8,421,846	8,725,610	9,036,507
Admin & Contract Services		1,351,566	1,398,871	1,447,831	1,498,505	1,550,953	1,605,236	1,661,420	1,719,569	1,779,754	1,842,046	1,906,517	1,973,245	2,042,309	2,113,790	2,187,772	2,264,345	2,343,597	2,425,622	2,510,519	2,598,387	2,689,331	2,783,458
Total O&M Disbursements		\$ 5,184,239	\$ 5,377,071	\$ 5,637,391	\$ 5,920,466	\$ 6,216,452	\$ 6,241,867	\$ 6,458,932	\$ 6,687,370	\$ 6,927,402	\$ 7,194,262	\$ 7,558,186	\$ 7,934,422	\$ 8,328,227	\$ 8,739,865	\$ 9,174,610	\$ 9,607,747	\$ 9,944,568	\$ 10,290,378	\$ 10,650,491	\$ 11,020,233	\$ 11,414,941	\$ 11,819,964
Net Operating Receipts		\$ 2,199,008	\$ 2,300,833	\$ 2,572,649	\$ 2,772,906	\$ 2,586,413	\$ 2,675,966	\$ 2,631,449	\$ 2,575,852	\$ 2,508,968	\$ 2,415,580	\$ 2,225,465	\$ 2,023,393	\$ 1,804,127	\$ 1,567,420	\$ 1,299,372	\$ 1,345,843	\$ 1,414,400	\$ 1,488,784	\$ 1,564,202	\$ 1,549,247	\$ 1,519,969	\$ 1,491,340
Non-Operating Receipts & Expenditures	Test Year Amount	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	
Annual Growth - EDUs / Yr = 500		\$1,818	\$1,909	\$2,004	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	\$2,105	
Wastewater Construction Fund Receipts \$1,800	\$	617,128	\$ 909,000	\$ 954,450	\$ 501,086	\$ 526,141	\$ 526,141	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 1,052,281	\$ 526,141	\$ 526,141	\$ 526,141	Build		
Wastewater Improvement Fund Receipt: 3 EDUs / Acre \$1,420		750,443	710,000	710,000	355,000	355,000	355,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	710,000	355,000	355,000	355,000	Out		
Draw BAN Proceeds (Principal Payments) \$6,500,000					3,500,000	3,000,000	(750,000)	(1,000,000)	(2,000,000)	(2,000,000)	(750,000)												
Interest on Debt Obligations 4.0%					(70,000)	(200,000)	(260,000)	(230,000)	(190,000)	(110,000)	(30,000)												
Capital Replacements, Improvements & Outlays		(9,184,496)	(3,148,500)	(7,975,000)	(7,465,000)	(6,830,000)	(2,505,000)	(2,330,000)	(2,005,000)	(2,530,000)	(400,000)	(430,000)	(6,785,000)	(4,970,000)	(700,000)	(750,000)	(800,000)	(850,000)	(900,000)	(950,000)	(1,000,000)	(1,050,000)	(1,100,000)
Net Non-Operating Receipts & Expenditures		\$ (7,816,925)	\$ (1,529,500)	\$ (6,310,550)	\$ (3,178,914)	\$ (3,148,859)	\$ (2,633,859)	\$ (1,797,719)	\$ (2,432,719)	\$ (2,877,719)	\$ 582,281	\$ 1,332,281	\$ (5,022,719)	\$ (3,207,719)	\$ 1,062,281	\$ 1,012,281	\$ 962,281	\$ 31,141	\$ (18,859)	\$ (68,859)	\$ (1,000,000)	\$ (1,050,000)	\$ (1,100,000)
Net Increase (Decrease) in Cash & Investments		(5,617,917)	771,333	(3,737,901)	(406,008)	(562,447)	42,106	833,730	143,134	(368,751)	2,997,861	3,557,746	(2,999,325)	(1,403,592)	2,629,701	2,311,653	2,308,124	1,445,541	1,469,924	1,495,342	549,247	469,969	391,340
Beginning Cash & Investments		12,392,390	6,774,473	7,545,806	3,807,905	3,401,897	2,839,451	2,881,557	3,715,287	3,858,420	3,489,669	6,487,530	10,045,276	7,045,950	5,642,358	8,272,059	10,583,712	12,891,836	14,337,377	15,807,301	17,302,644	17,851,890	18,321,860
Ending Cash & Investments		\$ 6,774,473	\$ 7,545,806	\$ 3,807,905	\$ 3,401,897	\$ 2,839,451	\$ 2,881,557	\$ 3,715,287	\$ 3,858,420	\$ 3,489,669	\$ 6,487,530	\$ 10,045,276	\$ 7,045,950	\$ 5,642,358	\$ 8,272,059	\$ 10,583,712	\$ 12,891,836	\$ 14,337,377	\$ 15,807,301	\$ 17,302,644	\$ 17,851,890	\$ 18,321,860	\$ 18,713,200