

LANCASTER AREA SEWER AUTHORITY

2014 – 2015

**BUDGET
REPORT**



**Lancaster Area Sewer
Authority
130 Centerville Rd
Lancaster PA 17603**

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Overview

The Lancaster Area Sewer Authority (Authority) serves seven member municipalities in Lancaster County, including the Boroughs of East Petersburg and Mountville, and the Townships of East Hempfield, West Hempfield, Lancaster, Manheim, and Manor. The sewer system includes the Susquehanna Water Pollution Control Facility, 38 pumping stations and approximately 530 miles of pipeline. The service area encompasses a population of about 108,000, or about 23% of the County's population.

Although most of the sewage from Authority customers flows to the Authority's treatment plant in Manor Township, a significant number of Authority customers in Manheim Township discharge to the City of Lancaster treatment plant.

The Authority performs most operational and administrative functions using full-time staff, although it contracts-out some specialty work, professional services, and some functions such as legal services, certain engineering services, financial auditing, and grounds maintenance. Staffing is currently at 40 permanent full-time employees.

The Authority operates on a fiscal year from April 1 through March 31 and is required by its Trust Indenture to adopt a budget by March 1st for the next fiscal year.

Three key elements make up the Authority's budget, as follows:

- ❖ The 2014-2015 Operating Budget,
- ❖ The 2014-2015 Capital Improvements Budget, and
- ❖ The 2015-2019 Five-Year Comprehensive Plan.

Authority staff prepares a proposed budget for presentation to the Board Finance Committee. The Board Finance Committee recommends a final budget to the Board for review, approval, and adoption.

LANCASTER AREA SEWER AUTHORITY

2014 – 2015

OPERATING BUDGET



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**LANCASTER AREA SEWER AUTHORITY
OPERATING BUDGET OVERVIEW
FISCAL YEAR 2014-15**

Line		2013-14 Budget	2013-14 Y/E Projection	Over/(Under) Budget	% Over/(Under) Budget	2014-15 Budget	Increase/ (Decrease)	% Budget Over Y/E Projection
1	<u>Revenue</u>							
2	Sewer Rental Income							
3	Flat Rate Customers	\$ 12,478,000	\$ 12,496,000	\$ 18,000	0.14%	\$ 13,067,000	\$ 571,000	4.57%
4	Bulk Rate Customers	483,000	521,900	38,900	8.05%	549,000	27,100	5.19%
5	Metered Customers	2,888,000	2,691,000	(197,000)	-6.82%	2,743,000	52,000	1.93%
6	Surcharge Income	213,000	217,000	4,000	1.88%	223,000	6,000	2.76%
7	Interest & Penalty	181,000	179,000	(2,000)	-1.10%	182,000	3,000	1.68%
9	Sewer Rental Income	16,243,000	16,104,900	(138,100)	-0.85%	16,764,000	659,100	4.09%
11	Other Revenue:							
12	Tapping Fees	862,000	1,165,000	303,000	35.15%	1,184,000	19,000	1.63%
13	Special Purpose Fees	73,000	65,000	(8,000)	-10.96%	71,000	6,000	9.23%
14	Trucked Waste Fees	246,000	276,000	30,000	12.20%	276,000	-	0.00%
15	Sewer Capacity Reserve Fees	100,000	120,000	20,000	20.00%	110,000	(10,000)	-8.33%
16	Investment Income	204,000	160,000	(44,000)	-21.57%	192,000	32,000	20.00%
17	Miscellaneous Income	340,000	316,500	(23,500)	-6.91%	305,000	(11,500)	-3.63%
19	Other Revenue	1,825,000	2,102,500	277,500	15.21%	2,138,000	35,500	1.69%
21	Total Revenue	18,068,000	18,207,400	139,400	0.77%	18,902,000	694,600	3.81%
23	<u>Expenses</u>							
24	Operating Expenses							
25	LASA Collection and Treatment Costs							
26	Salaries and Wages	2,341,813	2,317,286	(24,527)	-1.05%	2,442,385	125,099	5.40%
27	Benefits	1,314,685	1,341,697	27,012	2.05%	1,365,298	23,601	1.76%
28	Utilities	755,550	768,613	13,063	1.73%	753,562	(15,051)	-1.96%
29	Maintenance	394,190	390,565	(3,625)	-0.92%	466,470	75,905	19.43%
30	Replacements and Improvements	378,065	198,398	(179,667)	-47.52%	250,000	51,602	26.01%
31	Materials & Supplies	932,090	871,235	(60,855)	-6.53%	866,620	(4,615)	-0.53%
32	Contract Services	725,550	966,260	240,710	33.18%	1,026,990	60,730	6.29%
33	Miscellaneous	88,385	73,305	(15,080)	-17.06%	80,150	6,845	9.34%
34	Interest Expense	2,145,281	2,145,281	-	0.00%	1,979,767	(165,514)	-7.72%
36	LASA Collection/Treatment Costs	9,075,609	9,072,641	(2,968)	-0.03%	9,231,243	158,602	1.75%
38	City of Lancaster Treatment Costs	1,708,000	2,200,000	492,000	28.81%	2,200,000	-	0.00%
40	Total Operating Expenses	10,793,609	11,272,641	489,032	4.53%	11,431,243	158,602	1.41%
42	Excess Funds for Reserve Accounts	7,284,391	6,934,759	(349,632)	-4.80%	7,470,757	535,998	7.73%
44	Depreciation Expense	3,713,000	3,713,000	-	0.00%	3,713,000	-	0.00%
46	Excess of Revenue Over Expenses Including Depreciation	\$ 3,571,391	\$ 3,221,759	\$ (349,632)	-9.79%	\$ 3,757,757	\$ 535,998	16.64%

<div><div>Lancaster Area Sewer Authority 2014-2015 Operating Budget Summary</div></div>

2013-14 Year End Projection

The operating budget summary begins with an overview of the 2013-14 (FY 14) year-end projections. It is important to understand how the current fiscal year is projected to end before examining the details of the budget for 2014-15 (FY 15). The line numbers referenced in this section of the report refer to the Operating Budget Overview on page 4.

Total Revenue (Line 21): Projections for the year show total revenue of \$18.2 million which is \$139,000, or 0.77% above budget.

Highlights of revenue line items:

- Line 4 – Bulk Rate Customers - \$38,900, or 8.0% over budget – Treatment fees from the City of Lancaster increased above budget increasing the fees passed on to our bulk rate customers.
- Line 5 – Metered Customers - \$197,000, or 6.82% below budget – Third and fourth quarter flow from commercial and industrial customers were well below budgeted flows.
- Line 12 – Tapping Fees - \$303,000, or 35.15% above budget – An apartment complex adding approximately 340 dwelling units is projected to be permitted to connect by the end of FY 14, adding \$270,000 to projected year end tapping fee income.
- Line 16 – Investment Income - \$44,000, or 21.57% below budget – Interest rates on invested funds decreased 10 basis points while the budget projected a flat interest rate.
- Line 17 – Miscellaneous Income - \$23,500, or 6.91% below budget – Below budget income from the sale of nutrient credits of \$70,000 was offset by above budget revenue from lateral connection fees of \$24,000.

Total Operating Expenses (Line 40): Projected total operating expenses for the year are \$11.2 million which is \$489,000, or 4.53% over budget.

Highlights of expense line items:

- Line 30 – Replacement and Improvements - \$180,000, or 47.52% below budget – Below budget construction and equipment costs and deferment of approximately half of the budgeted line items led to below budget expenditures.
- Line 31 – Materials and Supplies - \$61,000, or 6.53% below budget – A new inventory process for chemicals expenses chemicals as they are used rather than when they are purchased.
- Line 32 – Contract Services – \$241,000, or 33.18% over budget – Above budget costs of \$188,000 for biosolids and grit disposal, including \$20,000 for outside consultants,

resulted from a mid-year decision to discontinue land application in favor of landfill disposal. Additional above budget costs of \$30,000 for contract labor resulted from temporary personnel placements to cover vacant employee positions. Additionally, software license and maintenance agreements exceeded budgeted costs by \$14,000.

- Line 33 – Miscellaneous – \$15,000, or 17.06% below budget – Education and training and dues and subscription expenses remained below budget by \$17,000.
- Line 38 – City of Lancaster Treatment Costs - \$492,000, or 28.81% above budget – The treatment rate per 1,000 gallons charged by the City of Lancaster, which by agreement was retroactively applied to 2012-13 and 2013-14 flow, was 17% above budget.

Excess of Revenue over Expenses (Line 46): The projected excess of revenue over expenses is \$3.2 million which is 9.79% below the budgeted excess of \$3.6 million.

**LANCASTER AREA SEWER AUTHORITY
REVENUE DETAIL
FISCAL YEAR 2014-15**

Line	Description	2013-14 Budget	2013-14 Y/E Projection	% Projected Over Budget	2014-15 Budget	Increase/ (Decrease)	% Budget Over Y/E Projection
1	Sewer Rental Income						
2	Flat Rate Customers						
3	LASA	8,015,000	8,017,000	0.0%	8,423,000	406,000	5.1%
4	Manheim Township	4,463,000	4,479,000	0.4%	4,644,000	165,000	3.7%
5	Total	12,478,000	12,496,000	0.1%	13,067,000	571,000	4.6%
6	Metered Customers						
7	LASA	1,754,000	1,588,000	-9.5%	1,624,000	36,000	2.3%
8	Manheim Township	1,134,000	1,103,000	-2.7%	1,119,000	16,000	1.5%
9	Total	2,888,000	2,691,000	-6.8%	2,743,000	52,000	1.9%
10	Bulk Customers						
11	East Lampeter Township	68,000	81,900	20.4%	84,000	2,100	2.6%
12	Leola Sewer Authority	306,000	326,000	6.5%	347,000	21,000	6.4%
13	Manor Township	109,000	114,000	4.6%	118,000	4,000	3.5%
14	Total	483,000	521,900	8.1%	549,000	27,100	5.2%
15	Interest and Penalty						
16	LASA	112,000	114,000	1.8%	112,000	(2,000)	-1.8%
17	Manheim Township	69,000	65,000	-5.8%	70,000	5,000	7.7%
18	Total	181,000	179,000	-1.1%	182,000	3,000	1.7%
19	Surcharge						
20	LASA	212,000	216,000	1.9%	221,000	5,000	2.3%
21	Manheim Township	1,000	1,000	0.0%	2,000	1,000	100.0%
22	Total	213,000	217,000	1.9%	223,000	6,000	2.8%
24	Total Sewer Rental Income	16,243,000	16,104,900	-0.9%	16,764,000	659,100	4.1%
26	Other Revenue						
27	Tapping Fee						
28	LASA	448,000	730,000	62.9%	778,000	48,000	6.6%
29	Manheim Township	414,000	435,000	5.1%	406,000	(29,000)	-6.7%
30	Total	862,000	1,165,000	35.2%	1,184,000	19,000	1.6%
32	Special Purpose Fee	73,000	65,000	-11.0%	71,000	6,000	9.2%
34	Investment Income	204,000	160,000	-21.6%	192,000	32,000	20.0%
36	Trucked Waste Fees	246,000	276,000	12.2%	276,000	-	0.0%
38	Sewer Capacity Reserve Fees	100,000	120,000	20.0%	110,000	(10,000)	-8.3%
40	Miscellaneous Income						
41	Lateral Connection Fee	2,000	26,000	1200.0%	2,000	(24,000)	0.0%
42	Industrial Waste Permits	1,000	1,000	0.0%	1,000	-	0.0%
43	Lab Testing Fees	5,000	4,500	-10.0%	5,000	500	11.1%
44	Inspection Fees						
45	LASA	13,000	16,000	23.1%	17,000	1,000	6.3%
46	Manheim Township	13,000	15,000	15.4%	15,000	-	0.0%
47	Total	26,000	31,000	19.2%	32,000	1,000	3.2%
48	Dev.Cons.Permits & Inspection	53,000	56,000	5.7%	63,000	7,000	12.5%
49	Rental Income	22,000	25,000	13.6%	28,000	3,000	12.0%
50	Lease Income	85,000	85,000	0.0%	88,000	3,000	3.5%
51	Facility Fees						
52	Leola Sewer Authority	-	-	0.0%	-	-	0.0%
53	Manor Township	41,000	41,000	0.0%	41,000	-	0.0%
54	Total	41,000	41,000	0.0%	41,000	-	0.0%
55	Grants	-	-	-	-	-	-
56	Reimbursed Escrow Funds	-	-	-	-	-	-
57	Sale of Assets	15,000	20,000	-	15,000	(5,000)	-
58	Miscellaneous	90,000	27,000	-70.0%	30,000	3,000	11.1%
59	Total Miscellaneous Income	340,000	316,500	-6.9%	305,000	(11,500)	-3.6%
61	Total Other Revenue	1,825,000	2,102,500	15.2%	2,138,000	35,500	1.7%
63	Total Revenue	18,068,000	18,207,400	0.8%	18,902,000	694,600	3.8%

2014-15 Budgeted Revenues

Page 7 contains the detailed report of all the income sources for the Authority. Important items of note from this report are highlighted below.

Total Revenue (Line 63): Budgeted revenues for FY 15 are approximately \$695,000, or 3.8% above projected revenues for FY 14.

Highlights of revenue line items:

- Line 5 - Flat Rate Customers - FY 15 income is budgeted to be \$571,000, or 4.6% above projected FY 14. A budgeted 3.0% rate increase will generate additional revenue of approximately \$375,000. The remaining increase results from a budgeted 0.75% residential customer growth rate of 26 new customers per month and approximately 340 new dwelling units from an apartment complex projected to connect in FY 15.
- Line 9 – Metered Customers – Income from metered customers is projected to grow approximately 1% in FY15 with the remaining increase resulting from the budgeted rate increase.
- Line 30 – Tapping Fee - The new home market is showing a few signs of increased activity and is projected to provide a budgeted average of 30 new tapping fees per month in FY 15. Additional tapping fee income of \$85,000 is budgeted from charges to existing industrial and commercial customers for capacity they are using in the sewer system in excess of their permitted capacity.
- Line 41 – Lateral Connection Fees – Residents connecting to the Pleasant Valley sewer extension in FY 14 paid \$24,000 for connection fees. No such sewer extension is planned for FY 15, resulting in the budget reduction in lateral connection fees.

Chart 1 shows a breakdown of budgeted revenue sources for FY 14.

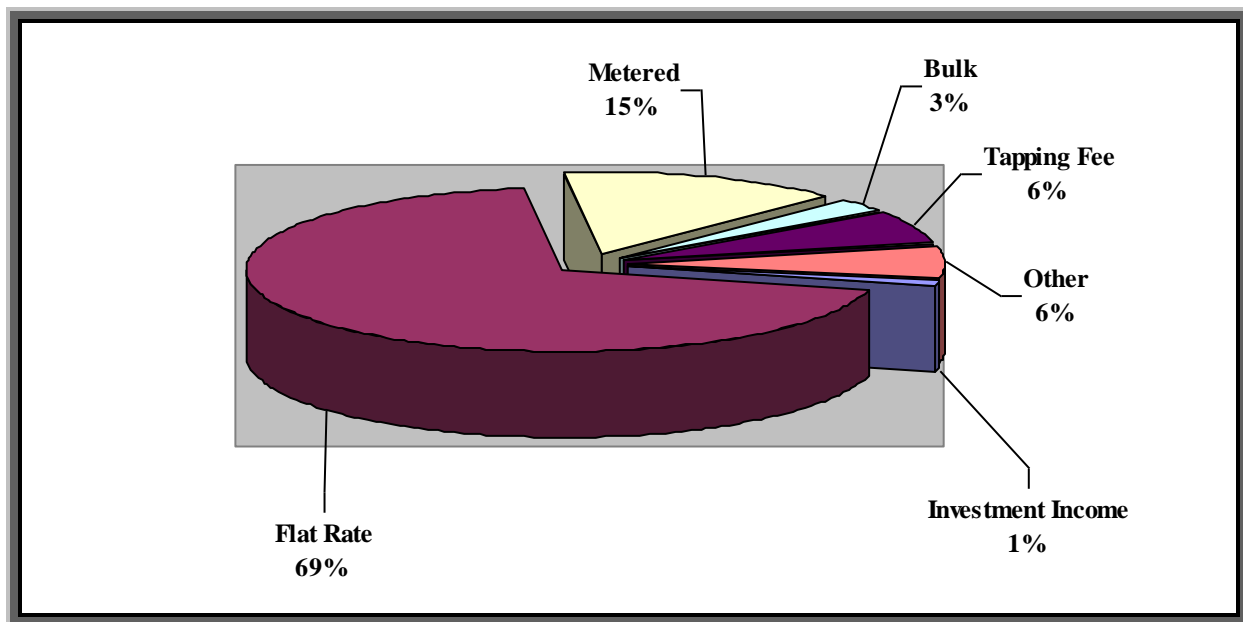


Chart 1 – FY 15 Allocation of Revenue

**LANCASTER AREA SEWER AUTHORITY
OPERATING EXPENSES DETAIL
FISCAL YEAR 2014-15**

Line	Description	2013-14 Budget	2013-14 Y/E Projection	% Projected Over Budget	2014-15 Budget	Increase/ Decrease	% of Budget Over Y/E Projection
1	Wages and Benefits						
2	Salaries and Wages	\$ 2,341,813	\$ 2,317,286	-1.05%	2,442,385	\$ 125,099	5.40%
3	Deferred Compensation	6,400	6,400	0.00%	6,400	-	0.00%
4	Unemployment Compensation	8,856	9,200	3.88%	11,200	2,000	21.74%
5	FICA	179,149	177,272	-1.05%	186,842	9,570	5.40%
6	Worker's Compensation	20,400	46,550	128.19%	45,631	(919)	-1.97%
7	Pension Plan	371,000	371,000	0.00%	371,100	100	0.03%
14	Health Insurance	709,050	711,275	0.31%	726,675	15,400	2.17%
15	Uniforms and Boots	15,330	15,600	1.76%	12,450	(3,150)	-20.19%
16	Other Employee Benefits	3,500	2,400	-31.43%	4,500	2,100	87.50%
17	Wellness Program	1,000	2,000	100.00%	500	(1,500)	-75.00%
18	Total Wages and Benefits	3,656,498	3,658,984	0.07%	3,807,684	148,700	4.06%
20	Utilities						
21	Natural Gas/Propane	5,150	5,100	-0.97%	5,150	50	0.98%
22	Electricity	639,460	639,130	-0.05%	629,299	(9,831)	-1.54%
23	Water	12,200	19,097	56.53%	12,297	(6,800)	-35.61%
24	Communications	98,740	105,286	6.63%	106,816	1,530	1.45%
25	Total Utilities	755,550	768,613	1.73%	753,562	(1,501)	-1.96%
27	Maintenance						
28	Grounds Maintenance	42,460	39,900	-6.03%	40,730	830	2.08%
29	Vehicle Maintenance	33,550	40,125	19.60%	44,500	4,375	10.90%
30	Equipment Maintenance	260,930	247,170	-5.27%	314,670	67,500	27.31%
31	Cleaning Service	3,770	3,770	0.00%	3,770	-	0.00%
32	Building Maintenance	48,430	42,150	-12.97%	40,750	(1,400)	-3.32%
33	Replacements and Improvements	378,065	198,398	-47.52%	250,000	51,602	26.01%
36	Rental Property Maintenance	3,000	15,400	413.33%	21,000	5,600	36.36%
37	On-Call Mileage Reimbursement	300	250	-16.67%	300	50	20.00%
38	Sewer Backup Costs	1,750	1,800	2.86%	750	(1,050)	-58.33%
39	Total Maintenance	772,255	588,963	-23.73%	716,470	127,507	21.65%
41	Materials and Supplies						
42	Gas, Oil, and Grease	42,460	34,185	-19.49%	35,010	825	2.41%
43	Equipment Rental	-	550	0.00%	-	(550)	0.00%
44	Diesel Fuel	23,700	22,895	-3.40%	27,170	4,275	18.67%
45	Postage	47,500	45,000	-5.26%	43,000	(2,000)	-4.44%
46	Office Supplies	18,460	18,700	1.30%	15,200	(3,500)	-18.72%
47	Operating Supplies	66,570	71,100	6.80%	65,450	(5,650)	-7.95%
48	Chemicals	676,350	625,000	-7.59%	635,000	10,000	1.60%
49	Small Hand Tools	4,760	4,305	-9.56%	4,260	(45)	-1.05%
50	Expendable Items	7,630	7,900	3.54%	7,630	(270)	-3.42%
51	Health and Safety	16,660	13,600	-18.37%	20,200	6,600	48.53%
52	Computer Supplies	28,000	28,000	0.00%	13,700	(14,300)	-51.07%
53	Total Materials and Supplies	932,090	871,235	-6.53%	866,620	(4,615)	-0.53%
55	Contract Services						
56	Meter Reading	2,000	2,000	0.00%	2,000	-	0.00%
57	Contract Labor	7,160	37,060	417.60%	9,600	(27,460)	-74.10%
58	Engineers	20,000	7,500	-62.50%	10,000	2,500	33.33%
59	Legal	35,000	44,000	25.71%	35,000	(9,000)	-20.45%
60	Accounting	14,500	14,300	-1.38%	14,500	200	1.40%
61	Trustees	30,420	26,000	-14.53%	26,000	-	0.00%
62	Computer Services	86,000	110,000	27.91%	116,490	6,490	5.90%
63	Employee Testing Services	1,900	2,400	26.32%	2,400	-	0.00%
64	Outside Consultants	22,000	42,000	90.91%	52,000	10,000	23.81%
65	Outside Laboratory Services	15,000	11,000	-26.67%	25,000	14,000	127.27%
66	Sludge Disposal	387,000	550,000	42.12%	620,000	70,000	12.73%
67	Grit Disposal	7,570	12,500	65.13%	-	(12,500)	-100.00%
68	Insurance	97,000	107,500	10.82%	114,000	6,500	6.05%
69	Total Contract Services	725,550	966,260	33.18%	1,026,990	60,730	6.29%
71	Miscellaneous						
72	Education and Training	32,270	18,500	-42.67%	25,000	6,500	35.14%
73	Advertising	4,500	4,550	1.11%	4,300	(250)	-5.49%
74	Dues and Subscriptions	17,010	13,700	-19.46%	12,750	(950)	-6.93%
75	Miscellaneous	18,590	16,000	-13.93%	17,300	1,300	8.13%
76	WTMA Tapping Fees	-	4,200	0.00%	4,200	-	0.00%
77	Railroad Permits	1,025	600	-41.46%	600	-	0.00%
78	Real Estate Taxes	14,990	15,755	5.10%	16,000	245	1.56%
79	Total Miscellaneous	88,385	73,305	-17.06%	80,150	6,845	9.34%
81	Interest						
88	Interest	2,145,281	2,145,281	0.00%	1,979,767	(165,514)	-7.72%
89	Total Interest	2,145,281	2,145,281	0.00%	1,979,767	(165,514)	-7.72%
91	Sewer Treatment						
92	City of Lancaster - Sewer Treatment	1,708,000	2,200,000	28.81%	2,200,000	-	0.00%
93	Total Sewer Treatment	1,708,000	2,200,000	28.81%	2,200,000	-	0.00%
95	Total Operating Expenses	\$ 10,783,609	\$ 11,272,641	4.53%	\$ 11,431,243	\$ 158,602	1.41%

2014-15 Budgeted Expenses

Page 10 contains the detailed report of all the expenditures of the Authority. Important items of note from this report are highlighted below.

Total Expenses (Line 95): Total operating expenses in FY 15 are budgeted to be \$159,000, or 1.41%, above FY 14 projected year end.

Highlights of expense line items:

- Line 2 – Salaries and Wages – The overall budgeted salary increase is \$124,000, or 5.34% for FY 15. Budgeted increases for collective bargaining unit employees are 2.50% as well as 2.75% increases for non-union employees. One additional employee to fill the vacant Plant Director position is planned for FY 15.
- Line 22 – Electricity – Contracted electricity generation costs have been contracted for three years at a 10% reduction leading to a budget reduction of \$10,000, or 1.54%, in total electricity costs.
- Line 30 – Equipment Maintenance – Scheduled maintenance and planned rehabilitation across the system will result in \$62,500, or 25.29%, additional expenditures for equipment maintenance in FY15.
- Line 33 – Replacements and Improvements –A detailed list of the items budgeted for FY 15 is included at page 13.
- Line 51 – Health and Safety - Additional budgeted purchases in FY 15 include new gas detection meters and additional personal protection equipment totaling \$6,000.
- Line 64 – Outside Consultants – Outside printing of the LASA sewer bills will add \$24,000 to this line for FY15.
- Outside Laboratory Service – Additional testing of LASA influent and biosolids to comply with EPA and DEP regulations will increase the budgeted lab fees by \$14,000 in FY15.
- Line 88 – Interest – Continued annual reduction of outstanding debt reduces interest expense each year. Combined with the partial refinancing of the 2004 series bond issue in FY 12 and FY 13, interest expense will drop \$166,000, or 7.72%.

Chart 2 shows a breakdown of budgeted expenses in FY 15.

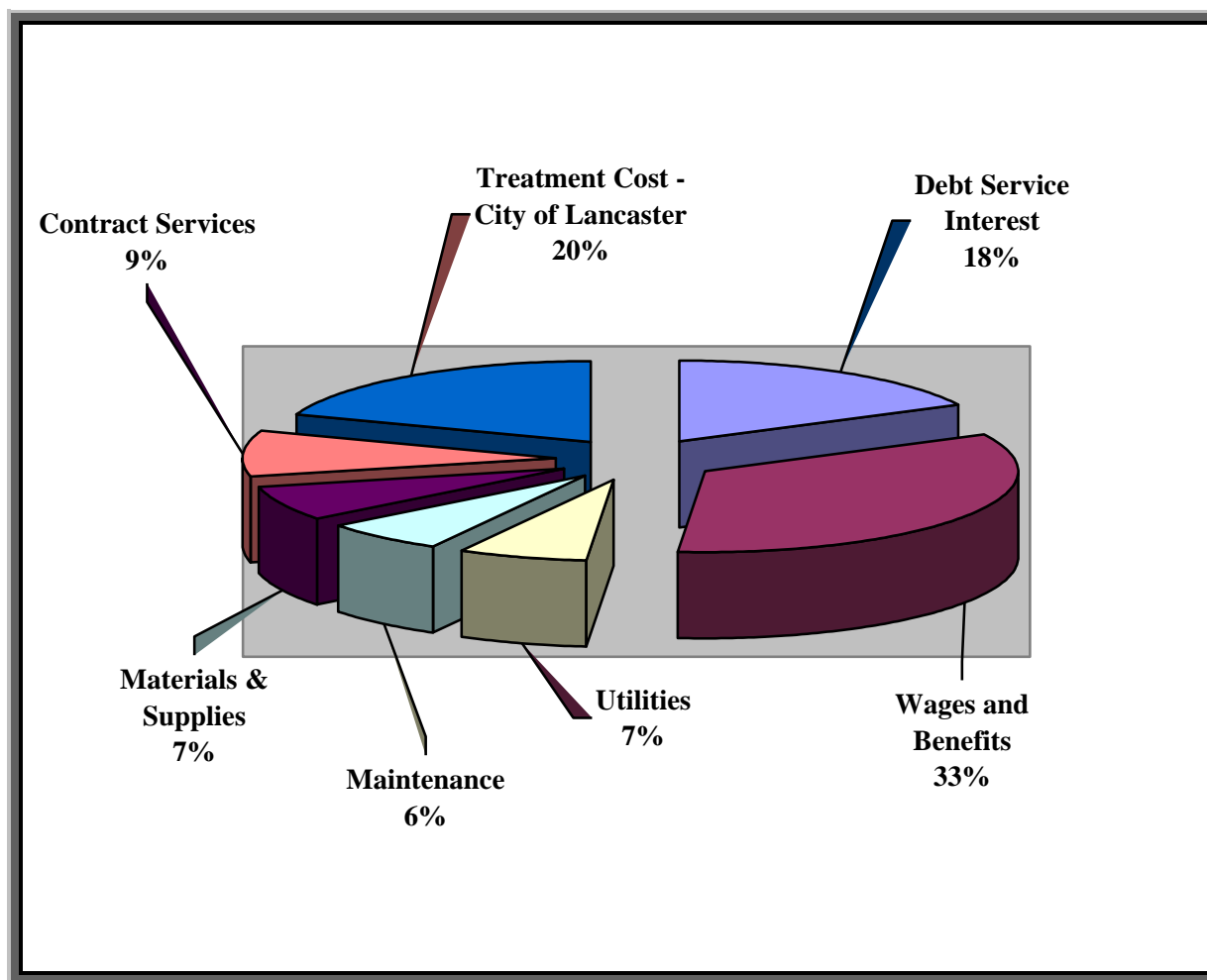


Chart 2 – FY 15 Allocation of Expenses

2014-15 Budgeted Excess of Revenue Over Expenses

The Authority's Trust Indenture requires revenue to exceed expenses by at least 5% each year. The budgeted excess of revenue over expenses for FY 15 is \$3,757,757 (Page 4, Line 46), which is 25% over expenses and sufficient to comply with this requirement.

This \$3.7 million excess will fund the Authority's Capital Improvements Budget. For additional details on the Authority's Capital Improvements Budget, see Section 3 and 4 of this report.

**LANCASTER AREA SEWER AUTHORITY
REPLACEMENTS AND IMPROVMENTS DETAIL
FISCAL YEAR 2014-15**

<u>Line</u>	<u>Description</u>	<u>Amount</u>
1	Administration	
2	Computer Work Station Upgrades	\$ 13,400
3	Mobile Tablets	5,600
4	Smart Phone Replacements	1,000
5	Total Administration	<u>20,000</u>
7	Maintenance	
8	Verbatims for Pump Stations	4,200
9	Vactor Truck Repairs	3,000
10	Tracemaster Pipe and Cable Locator	4,000
11	Suction Plate and Volute at Bausman PS	6,000
12	Mechanical Seal at Blue Rock PS	5,500
13	Impellers and Volutes at Blue Rock 1 PS	13,500
14	Drill Well for Water Source at Charlestown PS	14,750
15	New Motors and Drives at Graystone PS	5,000
16	Outside Gate Valve Replacement at Landisville 1 PS	5,000
17	Rebuild Pump # 1 at Locust Grove PS	18,250
18	Transfer Switch Replacement at Salunga PS	11,500
19	Pump Seal Replacement at LeTort PS	5,000
20	Wet Well Piping Replacement at Butter Road PS	5,000
21	Mechanical Seals at Eden Road PS	13,000
22	Gas Detection System at Fruitville PS	5,800
23	Wet Well Piping Replacement at Fruitville PS	6,000
24	Signal Replacement at Pleasure Road PS	5,200
25	Total Maintenance	<u>130,700</u>
27	Treatment Plant	
28	Valve Replacement for Return Activated Sludge	8,000
29	Sludge Valve Replacement at Primary Clarifier	10,000
30	Mixer Rebuild on West Train of Aeration Basin	8,000
31	LDO Probe Replacements for Aeration Basin	5,000
32	Heater for Temperature Control Replacement at Chlorination Building	5,300
	Butterfly Isolation Valve Replacement for Blowers	10,000
34	Augers for Conveyors at Headworks	16,000
35	Coating for Conveyors at Headworks	8,000
36	Pump Rebuild for Biosolids Sludge Pumps	14,000
37	Total Treatment Plant	<u>84,300</u>
39	Laboratory	
40	Ammonia Meter, Spectrophotometer, Desiccator, Jar Testing Apparatus, and Probe Replacements	15,000
41	Total Laboratory	<u>15,000</u>
43	Total Replacements and Improvements	<u>\$ 250,000</u>

LANCASTER AREA SEWER AUTHORITY

2014 – 2015

CAPITAL IMPROVEMENTS BUDGET



**Lancaster Area Sewer
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**LANCASTER AREA SEWER AUTHORITY
CAPITAL IMPROVEMENTS BUDGET
FISCAL YEAR 2014-15**

<u>Line</u>		<u>BRIF</u>	<u>CARF</u>	<u>TOTAL</u>
1	Beginning Balance	\$ 6,803,361	\$ 914,363	\$ 7,717,724
3	Sources of Funds			
4	Operating Budget Excess of Revenue Over Expenses	5,827,191	1,643,567	7,470,757
5	Bond Proceeds	<u>25,000,000</u>		<u>25,000,000</u>
7	Total Funds Available	37,630,552	2,557,930	40,188,482
9	Use of Funds			
10	Debt Service - Principal	4,768,000		4,768,000
12	Capital Improvements			
13	Administration/Engineering			
14	Backup Server Upgrade	23,600		23,600
15	Firewall Upgrade	25,000		25,000
16	Redundant Server	25,000		25,000
17	Pick-up Truck		22,000	22,000
18	Vehicle		<u>24,000</u>	<u>24,000</u>
19	Total Administrative/Engineering	<u>73,600</u>	<u>46,000</u>	<u>119,600</u>
21	Collection System			
22	Little Conestoga Interceptor Expansion	645		645
23	Mountville Interceptor Expansion	645		645
24	Granite Run Interceptor Expansion	32,448		32,448
25	Raintree Road Area Sewer Extension	290,078		290,078
26	Impeller Replacements		25,000	25,000
27	Pleasure Road PS Channel Grinder Rebuild		26,000	26,000
28	Pleasure Road/Eden Road PS Impeller Replacements		28,000	28,000
29	Pleasure Road/Eden Road PS Valve Replacements		32,000	32,000
30	Dump Truck Replacement		35,000	35,000
31	Charlestown Road PS Channel Grinder Rebuild		37,000	37,000
32	Sewer System Televising		150,000	150,000
33	Laterals, Manholes, and Structures Rehabilitation		<u>399,780</u>	<u>399,780</u>
34	Total Collection System	<u>323,816</u>	<u>732,780</u>	<u>1,056,596</u>
36	Treatment Plant			
37	Trucked Waste Receiving Station Improvements	15,000		15,000
38	Forklift Purchase	20,000		20,000
39	Nitrate Probe Purchase	20,000		20,000
40	SCADA Upgrade	53,000		53,000
41	Chlorination Upgrade	94,000		94,000
42	Anoxic Zone Modifications	1,100,000		1,100,000
43	Biosolids and Chlorination Upgrade	1,468,878		1,468,878
44	Well Water Pipe Replacement		35,000	35,000
45	Aeration System Membrane Replacement		45,000	45,000
46	Centrifuge Rebuild		<u>95,000</u>	<u>95,000</u>
47	Total Treatment Plant	<u>2,770,878</u>	<u>175,000</u>	<u>2,945,878</u>
55	Total Capital Improvements	3,168,294	953,780	4,122,074
57	Total Uses of Funds	7,936,294	953,780	8,890,074
59	Ending Balance	<u>\$ 29,694,258</u>	<u>\$ 1,604,150</u>	<u>\$ 31,298,408</u>

**Lancaster Area Sewer Authority
2014-2015 Capital Improvements
Budget Summary**

The Capital Improvements Budget is used to repay debt and to plan for purchases the Authority makes in excess of \$20,000 where the purchased item has an estimated life of more than one year. The Authority has established two separate funds from which to fund these purchases – the Bond Redemption and Improvement Fund and the Capital Asset Replacement Fund.

Bond Redemption and Improvement Fund (BRIF)

The BRIF is used to repay principal on bond issues and to fund the expansion or addition of fixed assets owned by the Authority. The Capital Improvements Budget on page 15 shows that at the start of FY 15, the BRIF will have a balance of approximately \$6.8 million (Line 1). 78.0% of the excess cash generated by the operating fund in FY 15, or approximately \$5.8 million (Line 4), will be transferred to this account.

During FY 15, \$4.8 million will be paid in debt service principal payments for the Series 2002, 2004, 2005, 2010, 2012 and 2013 bond issues (Line 10). The total principal amount of the bonds when issued was \$80.0 million. At the end of FY 15, the unpaid principal will be \$47.9 million.

Over \$3.0 million is budgeted in FY 15 from the BRIF for capital improvements (Line 534). 34.0% of these improvements are to upgrade the City of Lancaster's treatment facility (Line 40). 47.0% will be used to complete the design of the upgrades to the biosolids handling and chlorination process at the Authority's treatment facility (Line 41). The remaining 19.0% is for design of sewer extensions and various equipment purchases throughout the system.

Capital Asset Replacement Fund (CARF)

The CARF is used to fund the replacement of assets that have reached the end of their useful life. The Capital Improvements Budget on page 15 shows that at the beginning of FY 15, the CARF will have a balance of approximately \$0.9 million (Line 1). 22.0% of the excess cash generated by the operating fund in FY 15, or more than \$1.6 million (Line 4), will be transferred to this account.

During FY 15, over \$0.9 million is budgeted to be spent from the CARF. 62.0% will be used to identify, refurbish, or replace portions of the collection system that are either undersized or are sources of infiltration and inflow (Lines 30 and 31). 29.0% will be used to rebuild or replace obsolete equipment throughout the treatment plant. The remaining 9.0% will be used to replace two vehicles in the automotive fleet (Lines 17 and 18).

The BRIF and CARF policy defines the minimum balance that should be maintained in these Funds. It is based on the following formula (the numbers shown represent the calculated amounts for FY 15):

Average Annual Debt Service for the next 5 years	=	\$7,362,168
+ 5% of Average Annual Operating Expenses for next 5 years	=	\$ 506,547
+ Self-Insured Pollution Liability Coverage	=	<u>\$1,030,000</u>
Minimum Reserve Balance	=	\$8,898,715

At the end of FY 14, the balance in the BRIF and CARF is projected to be \$0.9 million below the minimum funding amount. The Board has approved an exception for FY14 allowing the balance in the BRIF and CARF to drop below the minimum.

At the end of FY 15, the balance in the BRIF and CARF is projected to exceed the above-referenced minimum balance.

LANCASTER AREA SEWER AUTHORITY

2015 – 2019

FIVE YEAR COMPREHENSIVE PLAN



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LANCASTER AREA SEWER AUTHORITY
FIVE YEAR COMPREHENSIVE PLAN
FISCAL YEARS 2015 - 2019

Line	2013-14 Budget	2013-14 Y/E Projection	2014-15 Budget	% Budget Over Y/E Projected	2015-16 Projection	2016-17 Projection	2017-18 Projection	2018-19 Projection
<u>Revenue</u>								
1								
2								
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11								
12								
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LANCASTER AREA SEWER AUTHORITY
FIVE YEAR COMPREHENSIVE PLAN
FISCAL YEARS 2015 - 2019

Line		2013-14 Budget	2013-14 Y/E Projection	2014-15 Budget	% Budget Over Y/E Projected	2015-16 Projection	2016-17 Projection	2017-18 Projection	2018-19 Projection
	Summary								
87									
88	Sewer Rental Income	\$ 16,243,000	\$ 16,104,900	\$ 16,764,000	4.1%	\$ 17,744,270	\$ 18,470,634	\$ 19,224,634	\$ 20,032,625
89	Other Revenue	1,825,000	2,102,500	2,138,000	1.7%	2,347,807	2,356,868	2,514,521	3,030,901
90	Total Revenue	18,068,000	18,207,400	18,902,000	3.8%	20,092,077	20,827,502	21,739,154	23,063,526
92	Operating Expenses	10,783,609	11,272,641	11,431,243	1.4%	12,524,413	12,706,786	12,784,844	12,888,479
93	Total Expenses	10,783,609	11,272,641	11,431,243	1.4%	12,524,413	12,706,786	12,784,844	12,888,479
95	Excess Funds for Reserve Accounts	\$ 7,284,391	\$ 6,934,759	\$ 7,470,757	7.7%	\$ 7,567,664	\$ 8,120,716	\$ 8,954,310	\$ 10,175,047
97	Capital Improvements								
105	Transfer to CARF Fund	\$ 1,821,098	\$ 693,476	\$ 1,643,567		\$ 756,766	\$ 812,072	\$ 895,431	\$ 1,017,505
107	Transfer to BRI Fund	\$ 5,463,293	\$ 6,241,283	\$ 5,827,191		\$ 6,810,898	\$ 7,308,645	\$ 8,058,879	\$ 9,157,542
109	Bond Redemption & Improvement Fund								
110	Beginning Balance	\$ 13,404,152	\$ 11,232,078	\$ 6,803,361		\$ 29,694,258	\$ 20,864,611	\$ 9,580,547	\$ 10,793,046
111	Grant/Other Funding	-	-	-		-	-	-	-
112	Short-Term Borrowing	-	-	-		-	-	-	-
113	New Bond Issue	-	-	25,000,000		-	-	-	-
114	Year End Carry Over from Revenue	5,463,293	6,241,283	5,827,191		6,810,898	7,308,645	8,058,879	9,157,542
115	Less: Bond Principal Payment	(4,670,000)	(4,670,000)	(4,768,000)		(3,398,500)	(5,162,500)	(5,512,500)	(5,797,500)
116	Less: Minimum Balance	(7,692,974)	(7,115,321)	(7,398,725)		(7,690,577)	(8,075,809)	(7,546,554)	(6,992,415)
117	Total Funds Available	6,504,471	5,688,040	25,463,827		25,426,079	14,934,947	4,580,371	7,160,673
118	Capital Improvements	(7,080,788)	(6,000,000)	(3,168,294)		(12,252,045)	(13,430,209)	(1,333,879)	(1,652,425)
119	Add: Minimum Balance	7,692,974	7,115,321	7,398,725		7,690,577	8,075,809	7,546,554	6,992,415
120	Ending Balance	\$ 7,116,657	\$ 6,803,361	\$ 29,694,258		\$ 20,864,611	\$ 9,580,547	\$ 10,793,046	\$ 12,500,663
122	Excess/(Shortfall)	\$ (576,317)	\$ (311,960)	\$ 22,295,533		\$ 13,174,034	\$ 1,504,738	\$ 3,246,492	\$ 5,508,248
124	Capital Asset Replacement Fund								
125	Beginning Balance	\$ 1,549,670	\$ 1,020,887	\$ 914,363		\$ 1,604,149	\$ 1,803,506	\$ 1,802,613	\$ 1,809,728
126	Year End Carry Over from Revenue	1,821,098	693,476	1,643,567		756,766	812,072	895,431	1,017,505
127	Grant Funding	(1,500,000)	(1,500,000)	(1,500,000)		(1,500,000)	(1,500,000)	(1,500,000)	(1,500,000)
128	Less: Minimum Balance	-	-	-		-	-	-	-
129	Total Funds Available	1,870,768	214,363	1,057,930		860,915	1,115,578	1,198,044	1,327,232
130	Replacement Expenditures	(1,537,332)	(800,000)	(953,781)		(557,409)	(812,965)	(888,316)	(759,341)
131	Add: Minimum Balance	1,500,000	1,500,000	1,500,000		1,500,000	1,500,000	1,500,000	1,500,000
132	Ending Balance	1,833,436	914,363	1,604,149		1,803,506	1,802,613	1,809,728	2,067,891
134	Excess/(Shortfall)	\$ 333,436	\$ (585,637)	\$ 104,149		\$ 303,506	\$ 302,613	\$ 309,728	\$ 567,891
136	Capital Expenditure Reserves	\$ 8,950,093	\$ 7,717,724	\$ 31,298,407		\$ 22,668,117	\$ 11,383,159	\$ 12,602,774	\$ 14,568,554

Lancaster Area Sewer Authority 2015-2019 Five Year Comprehensive Plan

The Authority's operating budget provides a framework for short-term operational expenditures, while the Five Year Comprehensive Plan, coupled with the Five Year Capital Improvements Plan, allows the Authority to look to the future for long-range planning and ongoing implementation of the Authority's Strategic Plan.

The Five Year Comprehensive Plan incorporates all revenue sources available to meet operating expenses and debt service costs as well as the requirements of the Five Year Capital Improvements Plan. It is a dynamic five year document, subject to annual review, that provides the LASA Board and management with a long-range planning tool. Since 1994, the Authority has used the Five Year Comprehensive Plan to implement over \$88 million in capital improvements as well as the \$25 million acquisition of the Manheim Township sewer system, while maintaining rates at an affordable level.

The current Five Year Comprehensive Plan follows the same principles established in previous years. Excess cash generated in the Operating Fund is deposited in the Bond Redemption and Improvement Fund and the Capital Asset Replacement Fund. Each of these funds acts as the repository for the funding of the Five Year Capital Improvements Plan as well as self-insured pollution liability coverage. Policies currently in place define the minimum balance the Authority will maintain in each of these funds (See Page 17 for a discussion of the changes in the policy for FY 14).

The following are several key elements included in the plan as shown on pages 19 and 20, which covers FY 15 through FY 19.

Revenue

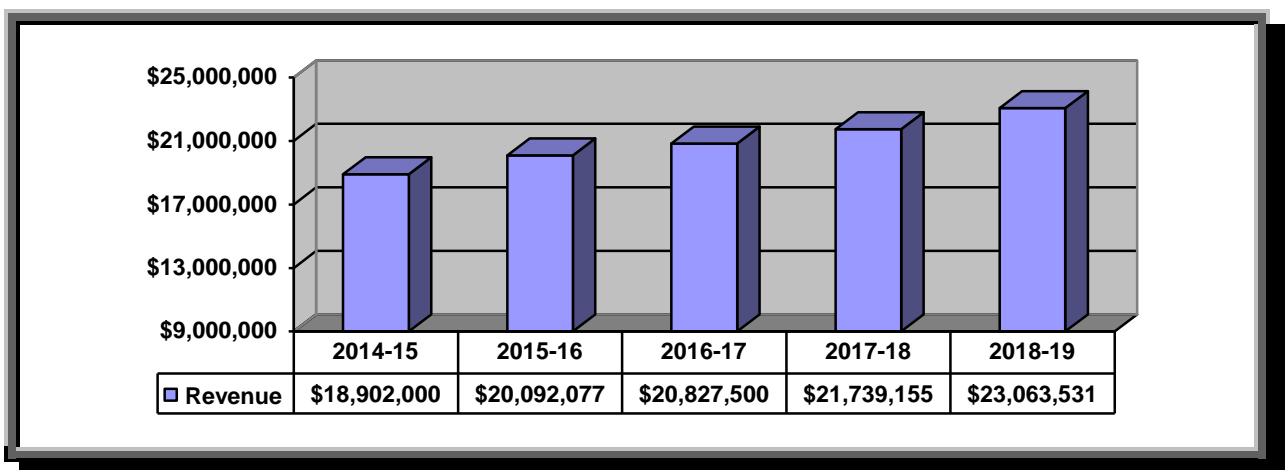


Chart 3 – FY 15–19 - Total Revenue Projections

Chart 3 shows the projected revenue growth over the next five years. Sewer rental income should continue to grow at 1.0% to 1.25% for the forecast period. Starting in FY 15 through the remainder of the planning period, additional increases in flat rate rental income (Line 3) are the result of annual rate increases and new connections resulting from the sewerage of the needs areas identified in the Act 537 Plan.

Revenue from metered customers is expected to follow recent trends with a minimal 2.0% - 2.25% annual growth in addition to annual rate increases over the next five years (Line 5). The major industrial/commercial customer base remains solid and should continue to provide a strong base of revenue. The same growth can be projected for surcharge income (Line 6), which is generated by high strength industrial and commercial wastes.

Investment income (Line 16) will increase slightly over the last three years of the projection period as projected increases in the rate of return offset projected capital reserve decreases. The current rate of return on reserves is projected to be 0.61% in FY 15 before moving back up to 2.5% by the end of the planning period.

Expenses

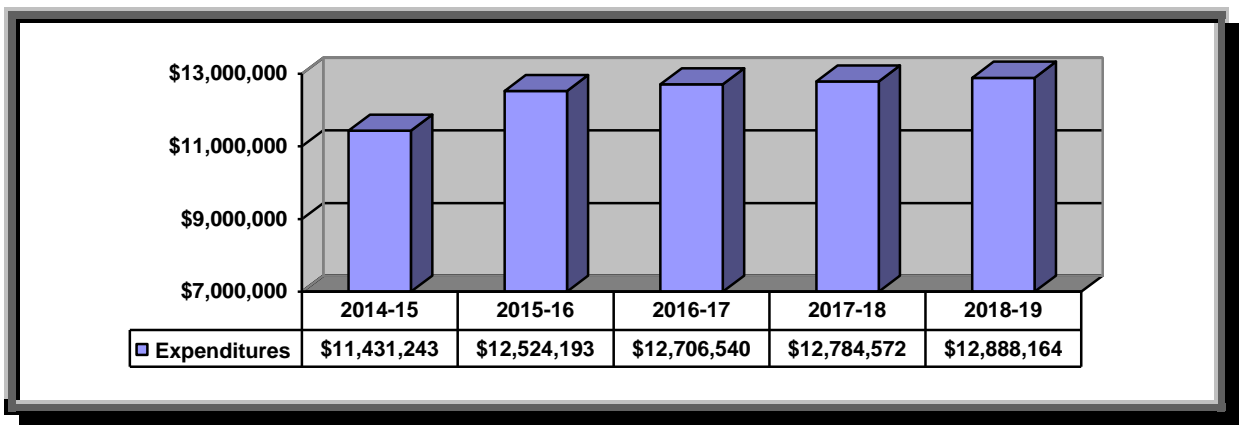


Chart 4 – FY 15-19 - Total Operating Expense Projections (without Depreciation)

Chart 4 depicts total operating expenses, without depreciation, over the next five years (Line 38). Total operating expenses in FY 15 are budgeted to increase 1.40% (see Section 2 for additional details). Operating expenses in FY 16-19, with the exception of employee benefits, are projected to increase at an average annual rate of 3.0%. Health care costs are projected to increase at an annual rate of 4.5% for the next five years.

Sewer Rental Rates

Sewer rental rates are budgeted to increase 3.0% in FY 15, increasing the monthly rate for all residential customers \$0.85 per month. Manheim Township commercial customers will also see a 3.0% increase in their base rate and the rate per 1,000 gallons for all discharge in excess of

500,000 gallons per quarter. All other commercial customers will see a 3.0% increase for all gallons discharged. Additional 3.0% rate increases per year are projected through FY 19.

The Authority's current monthly rate of \$28.15 ranks as the 14th lowest rate among 41 local sewer providers. The rate is 21.0% below the average monthly rate of \$35.60. In FY 198, after the projected increases mentioned above, the projected rate of \$32.63 would still rank the Authority as the 17th lowest and 8.0% below the current average monthly rate.

Capital Improvements

The current Capital Improvements Plan reflects the Authority's commitment to upgrade the performance of the collection and conveyance system as well as the treatment plant. A well-defined and planned Capital Improvements Plan allows for timely maintenance and improvements of the facilities while reducing costly emergency repairs and unexpected improvements.

By looking forward at least five years, the Authority can put into place funding necessary to accomplish the required upgrades, replacements, and improvements that keep the system operating efficiently and within regulatory requirements. The asset management plan implemented in FY13 provides a mechanism for management to project and rank those assets whose rehabilitation or replacement are critical to limiting the risk exposure of the Authority.

Bond Redemption and Improvement Fund: Total improvements for the five-year period are estimated to be \$73.4 million (Line 118). Chart 5 below depicts the anticipated capital improvement costs over the next five years and Chart 6 depicts the various areas in which these funds will be expended.

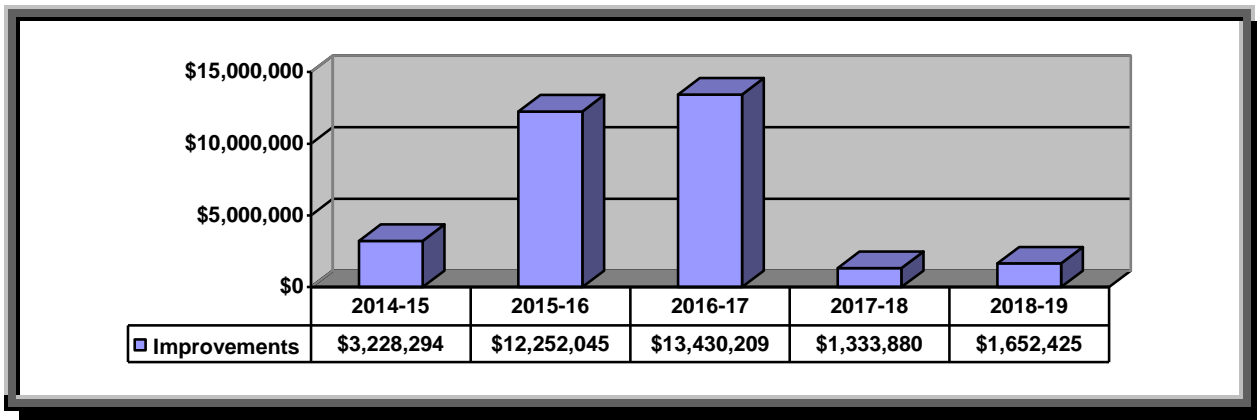


Chart 5 – FY 15-19 - BRIF Improvements

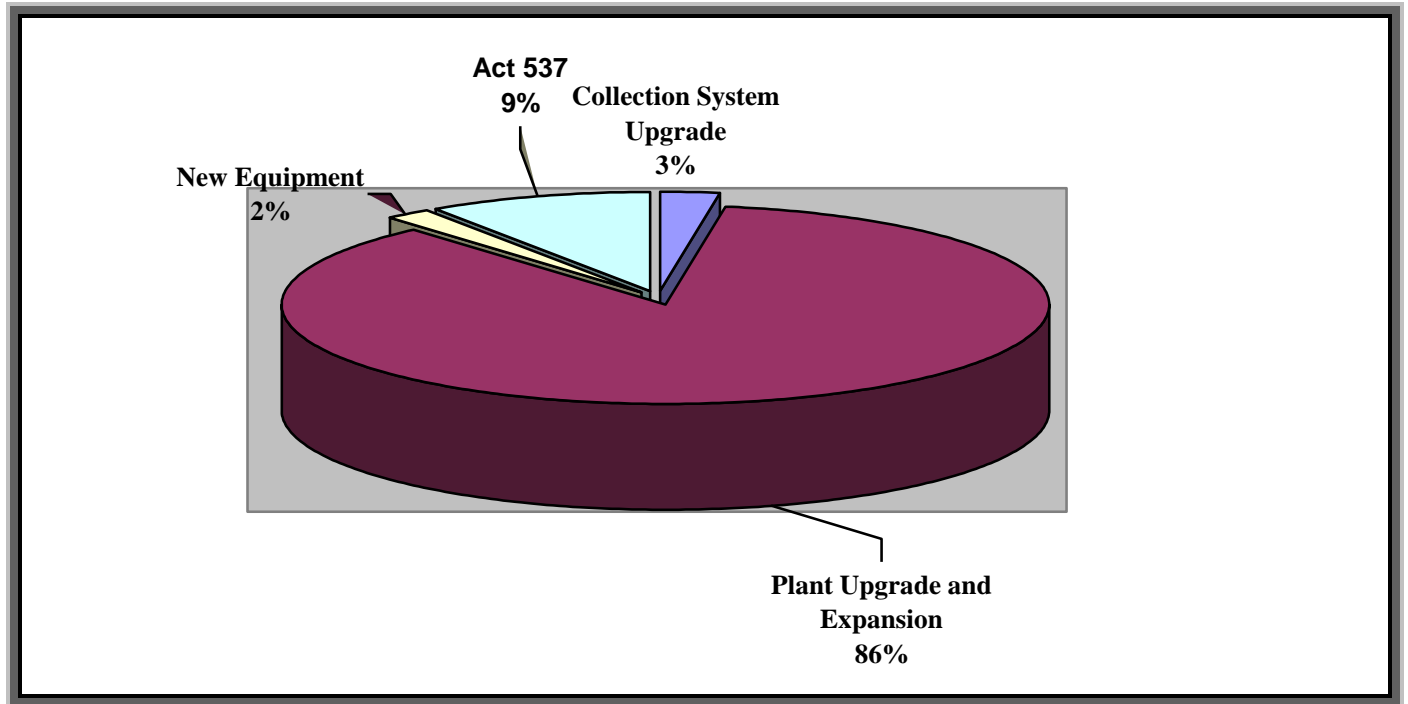


Chart 6 – FY 15-19 - Allocation of BRIF Improvements

86.0% of the BRIF improvements planned over the next five years are designated for treatment plant upgrades to allow the plant to remain in compliance with discharge regulations and to expand the plant to receive most of the flow currently going to the City of Lancaster. A bond issue (Line 113) of \$25.0 million is planned in FY 15 to fund the upgrade and expansion. The remaining BRIF projects will require an additional \$4.4 million to fund Act 537 sewer extensions and other collection system upgrades. A reserve balance of \$12.4 million will remain at the end of the five-year period (Line 120).

Capital Asset Replacement Fund: Total CARF replacements for the five-year period are estimated to be \$3.9 million (Line 130). Chart 7 provides a year by year graphic of the planned replacement costs. Chart 8 depicts the various areas in which these funds will be expended.

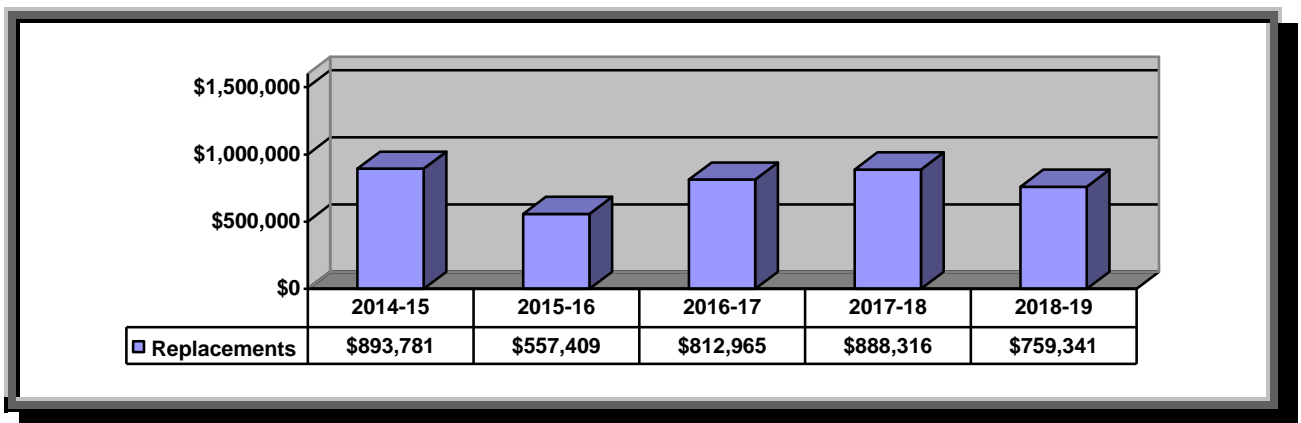


Chart 7 – FY 15-19 - CARF Replacements

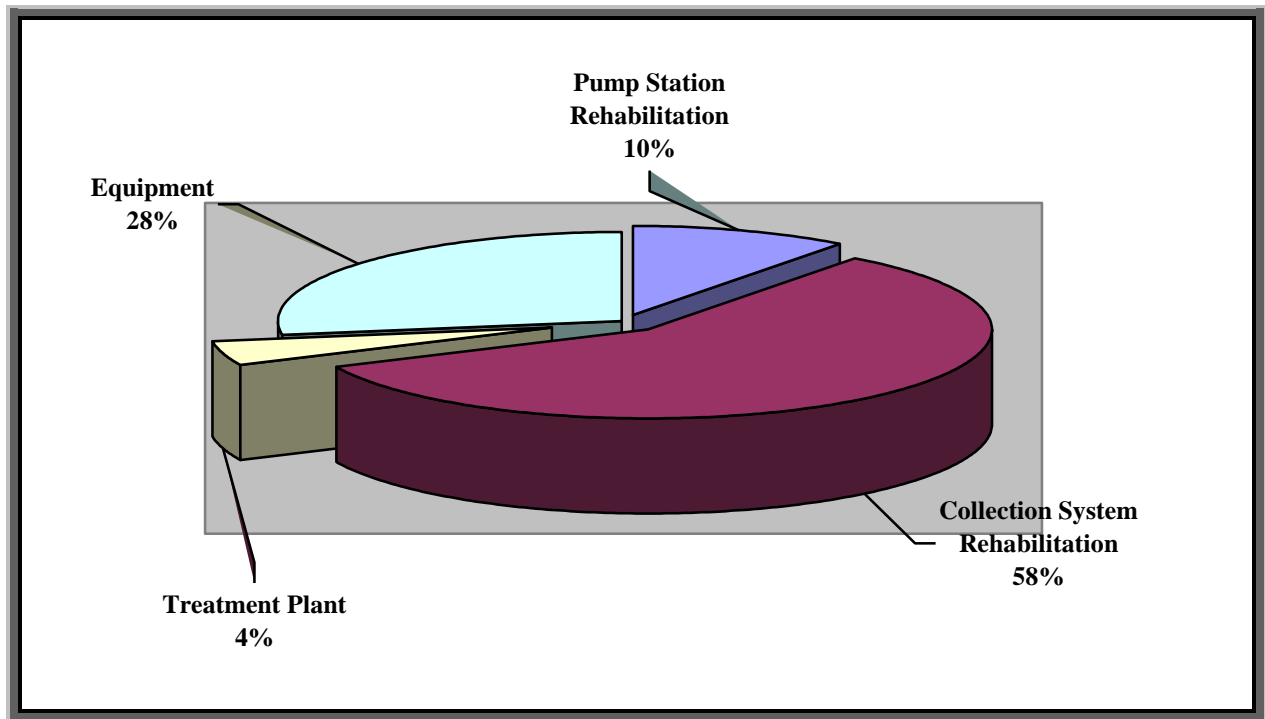


Chart 8 – FY 15-19 - Allocation of CARF Replacements

Over half of the CARF replacement costs over the next five years are designated to rehabilitate or replace deteriorating sections of the collection system. \$2.3 million will be spent to rehabilitate these sections. The remaining \$1.6 million will be used to replace obsolete equipment throughout the Authority's asset base. The CARF is projected to have a \$2.1 million reserve at the end of the five year planning period (Line 132).

For additional details on the planned capital improvements for the next five years, see the Five Year Capital Improvements Plan shown on pages 26-28 of this report.

LANCASTER AREA SEWER AUTHORITY
FIVE YEAR CAPITAL IMPROVEMENTS PLAN
FISCAL YEAR 2015 - 2019

Line	Inflation factor 4.0%		Fund Source	2014-15 Total Cost	2014-15 Budget	2015-16		2016-17		2017-18		2018-19		Total Cost
	Project #	Project Description				Projection	Projection	Projection	Projection					
ALL DEPARTMENTS														
1	11502	Firewall Upgrade	BRI	25,000	100%	-	-	-	-	-	-	-	-	25,000
4	11503	Redundant Server	BRI	25,000	100%	-	-	-	-	-	-	-	-	25,000
5	11505	Backup Server Upgrade	BRI	23,600	100%	-	-	-	-	-	-	-	-	23,600
6		New capital purchases	BRI	60,000		0%	-	50%	32,448	0%	-	50%	35,096	67,544
7		Vehicle Replacements - See attached Exhibit A	CARF	926,000			88,497		328,481		382,373		233,161	1,111,511
8		Total		1,099,600			88,497		358,929		382,373		268,256	1,252,655
9														
MAINTENANCE														
INFLOW AND INFILTRATION, SEWER LINE REHABILITATION														
12	21504	Rehabilitate Laterals, Manholes, & Structures	CARF	1,000,000	20%	199,890	20%	216,202	20%	224,850	20%	233,844	20%	1,083,242
13	21505	Sewer System Telesizing	CARF	75,000	100%	75,000	0%	-	-	-	-	-	-	75,000
14	11404	Sewer Extension for City Flow DvERSION	BRI	35,000,000		-	-	-	-	-	-	2%	818,901	818,901
15		Total		36,075,000		274,890		216,202		224,850		1,052,745		1,977,143
PUMP STATION REHABILITATION AND EXPANSION														
19	21508	Rebuild Charlestown PS Channel Grinder	CARF	37,000	100%	37,000		-	-	-	-	-	-	37,000
20	21510	Impellers	CARF	25,000	100%	25,000		-	-	-	-	-	-	25,000
21		Pump Station Rehabilitation	CARF	200,000		62,000	25%	52,000	25%	54,080	25%	58,493	25%	220,816
22		Total		262,000		62,000		52,000		54,080		58,493		282,819
EQUIPMENT														
25		New Maintenance Equipment	BRI	60,000		-	50%	31,200	0%	-	50%	33,746	0%	64,946
26		Total		60,000		-		31,200		-		33,746		64,946
27														
ACT 537 PLAN														
29	30805	Extend Sewer to Raintree Road Area	BRI	1,183,000	25%	290,078	75%	928,583	-	-	-	-	-	1,218,661
30	30811	Expand Little Conestoga Interceptor	BRI	160,000	0%	645	19%	30,974	81%	140,462	-	-	-	172,081
31	30812	Expand Mountville Interceptor	BRI	285,000	0%	645	19%	55,810	81%	249,166	-	-	-	305,621
32		Total		1,628,000		291,368		1,015,367		389,628		-	-	1,696,363
33														
TREATMENT PLANT OPERATIONS														
36	11204	Biosolids and Chlorination Upgrade	BRI	24,560,000	6%	1,468,878	43%	10,614,113	47%	11,500,274	4%	976,735	0%	24,560,000
37	11401	Treatment Plant Expansion	BRI	11,700,000	0%	-	-	-	-	-	-	-	-	-
38	11402	Expansion for City of Lancaster Flow Diversion	BRI	26,000,000	0%	-	-	-	-	-	-	2%	608,326	608,326
39	31501	Rebuild Centrifuge	CARF	95,000	100%	95,000		-	-	-	-	-	-	95,000
40	31502	Aeration System Membrane Replacement	CARF	45,000	100%	45,000		-	-	-	-	-	-	45,000
41	31503	Well Water Pipe Replacement	CARF	35,000	100%	35,000		-	-	-	-	-	-	35,000
42	31504	Trucked Waste Receiving Improvements	BRI	365,000	4%	15,000	96%	364,000	-	-	-	-	-	379,000
43	31505	Chlorination Upgrade	BRI	94,000	100%	94,000		-	-	-	-	-	-	94,000
44	11504	SCADA Upgrade	BRI	53,000	100%	53,000		-	-	-	-	-	-	53,000
45		Upgrade operations	BRI	250,000		1,805,878	25%	65,000	25%	67,600	25%	70,304	25%	276,020
46		Total		63,197,000		11,043,113		11,567,874		11,567,874		1,047,039		26,145,347
47														
EQUIPMENT														
49	31510	Forklift	BRI	20,000	100%	20,000		-	-	-	-	-	-	20,000
50		Upgrade equipment	BRI	200,000		52,000	25%	54,080	25%	56,243	25%	58,493	25%	220,816
51		Total		220,000		20,000		52,000		56,243		58,493		240,816
52														

LANCASTER AREA SEWER AUTHORITY
FIVE YEAR CAPITAL IMPROVEMENTS PLAN
FISCAL YEAR 2015 - 2019

FISCAL YEAR 2015 - 2019																										
Line	Inflation factor 4.0%		Project #	Project Description	Fund Source	2014-15 Total Cost	2014-15 Budget	2015-16		2016-17		2017-18		2018-19		Total Cost										
								Projection		Projection		Projection		Projection												
55	LABORATORY EQUIPMENT	31511	Nitrate Probe	BRI	20,000	100%	-	0%	-	-	-	-	-	-	-	20,000										
56																	Upgrade Lab equipment	BRI	50,000	-	50%	27,040	0%	-	29,246	56,286
57																			70,000	-		27,040		29,246	76,286	
58																	Total									
59																										
62	MANHEIM TOWNSHIP	21505	SEWER SYSTEM TELEVISIONING	CARF	75,000	100%	-	20%	208,456	20%	216,202	20%	224,850	20%	233,844	75,000										
63																	Rehabilitate Laterals, Manholes, & Structures	CARF	1,000,000	-	-	-	-	233,844	1,083,242	
64																			1,075,000	-	-	-	-	233,844	1,158,242	
65																	Total									
66																										
68	PUMP STATION REHABILITATION AND EXPANSION	21509	Rebuild Pleasure Road PS Channel Grinder	CARF	26,000	100%	-	25%	26,000	25%	27,040	25%	28,122	25%	29,246	26,000										
69																	Replace Pleasure Road/Eden Road PS Impellers	CARF	28,000	-	-	-	-	28,000	28,000	
70																	Replace Pleasure Road/Eden Road PS Valves	CARF	32,000	-	-	-	-	32,000	32,000	
71																	Pump Station Rehabilitation	BRI	100,000	-	-	-	-	100,000	110,408	
72																										
73																										
75	ACT 537	21506	Expand Granite Run Interceptor	BRI	1,150,000	3%	32,448	7%	84,365	94%	1,169,859	-	-	-	-	1,286,672										
76																	Total									
77																										
80	CITY OF LANCASTER	11306	WWTP DO Control and BNR System Impr.	BRI	1,100,000	100%	-	-	-	-	-	-	-	-	-	1,100,000										
81																	Treatment Plant Upgrades	BRI	300,000	-	50%	162,240	50%	168,730	-	330,970
82																			1,400,000	-	-	162,240	-	168,730	-	1,430,970
86	TOTAL		Total		106,382,600		4,122,075		12,809,454		14,243,174		2,222,195		2,411,767		35,808,668									

LANCASTER AREA SEWER AUTHORITY
VEHICLE REPLACEMENT SCHEDULE

LASA #	YEAR	MAKE	MODEL	COST NEW	REPLACEMENT YEAR	Capital Project #	COMMENTS	REPLACEMENT COST WITH 4% ANNUAL INCREASE IN COST										
								2015	2016	2017	2018	2019	2020	2021	2022	2023		
5	1990	FORD	DUMP TRUCK	26,000	2015	21502		35,000										
30	2001	GMC	SAVANNAH	17,048	2016				30,702									
33	2003	FORD	EXPLORER	23,530	2015	11501		24,000										
34	2003	FREIGHTLINER	VACTOR	212,318	2018						382,373							
38	2004	MACK	DUMP TRUCK	80,242	2019							144,511						
42	2005	FORD	ESCAPE	19,717	2016				30,353									
46	2005	GMC	CANYON	17,825	2016				27,441									
47	2005	GMC	CANYON	17,825	2015	21501		22,000										
48	2007	FORD	F-250 4 X4	32,276	2019							51,675						
49	2006	DODGE	TV TRUCK	212,076	2017					326,481								
50	2007	GMC	4 X4 TRUCK	23,094	2019						36,974							
52	2008	MACK	DUMP TRUCK	121,308	2023											216,469		
53	2008	GMC	CANYON	18,723	2020								29,976					
54	2008	GMC	CANYON	18,723	2020								29,976					
56	2009	FORD	ESCAPE	19,160	2020								29,496					
57	2008	FORD	CRANE TRUCK	55,770	2021									92,861				
58	2009	FORD	ESCAPE	19,500	2021									31,220				
60	2000	INTERNATIONAL	VACTOR	83,500	2025													
61	2011	FORD	F-250 W/ SNOW PLOW	36,769	2022										56,604			
62	2011	FORD	UTILITY TRUCK	31,273	2022										48,143			
63	1998	CHEVROLET	DUMP TRUCK	13,950	2022										35,758			
65	2011	FORD	F-350	32,213	2022										49,590			
66	2011	FORD	RANGER	18,391	2022										28,312			
67	2012	FORD	F-250 W/ SNOW PLOW	27,617	2023											42,515		
68	2013	FREIGHTLINER	TANKER	137,301	2023											203,239		
69	2013	FORD	F-150 4X4	20,293	2024													
70	2014	FORD	F-250 UTILITY TRUCK	31,930	2024													

ADDITIONAL VEHICLE REQUESTS

81,000	88,497	326,481	382,373	233,160	89,448	124,081	219,408	464,223
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