

Enterprise Fund - Wastewater

The Enterprise funds are used to account for the acquisition, operation and maintenance of City-owned utilities. Separate accounting and financial reporting of these municipal services allow for accountability of utility rates. The rates and fees charged for the service must be sufficient to provide for all operations and maintenance of the utility. Enterprise accounting allows the City to demonstrate the total cost of providing the service. Unlike, the General Fund, all direct and indirect costs, debt service and capital expenditures required to provide the service are reported within the fund so as to readily identify the true cost of the service. The existence of an enterprise fund does not create a separate or autonomous entity from the City. Like every other department, the budget is reviewed and analyzed by administration and finance.

The Batavia Wastewater Treatment Facility is a continuous aerobic biological treatment plant. There are 18 lift stations throughout the City that send wastewater back to the treatment plant through approximately 100 miles of sanitary sewer lines. There are approximately 9,100 sewer customers.

Wastewater Treatment and Sanitary Sewer Maintenance

The Wastewater Division has the ultimate responsibility for treating all of the City's sanitary sewerage and combination storm water before returning it to the Fox River. Capital assets of the division include the treatment plant and 18 Lift Stations throughout the City. The treatment plant has many components, which include an excess flow facility, a headworks facility, primary and secondary clarifiers, aeration nitrification basins, ultraviolet disinfection equipment, anaerobic digesters and a sludge handling facility.

In 2008 City Council adopted a comprehensive Master Plan for the Wastewater Utility. The Master Plan has served as the framework for development of five-year capital improvement plans for expansion and upgrade projects.

Phase I of the Wastewater Treatment Facility rehabilitation project began early in 2017 and was substantially completed in late Summer of 2019. Many structures, pieces of equipment and process items were replaced and/or repaired due to long-term wear. These items were all eligible for reimbursement through IEPA low interest loans. Phase I included many systems and equipment that improved our services. The 2020 budget reflects a significant decrease in Landfill Fees. This is due to upgraded sludge digestion and more efficient sludge dewatering that was completed with Phase I. We have seen nearly a 50% reduction in landfill costs since the new equipment was started up. "Main Building" odor control was also added as part of Phase I and has made a significant improvement to downtown and the surrounding area.

The 2020 budget includes funds to begin the process of designing Phase II of the treatment plant upgrades.

Also included in the 2020 "WWTP Infrastructure" budget are several pieces of equipment that are at the end of their useful life including rehabilitating our Randall Road lift station. The Randall Road rehab had been budgeted and then put off for many years. The 2019 budget had it scheduled for 2021; however, it has deteriorated to a point that it is now time to update the lift station.

As with 2019, the WWTP has again budgeted \$75,000 for SCADA upgrades in 2020. These upgrades originally included additional programming to the existing SCADA, Historical Data Access, Lift Station Flows etc. However, it was determined in 2019 that we needed to rebuild the system from the bottom up. This included servers, programming, tape backup etc. These upgrades ensure a more secure and redundant system. Items to be included in the 2020 budget are: Programming, Historical Data Access, Lift Station Flow Database, etc.

The Master Plan calls for the City to be an environmental leader and to support efforts to promote a healthy Fox River. In support of this goal the City has been a member of the Fox River Study Group (FRSG) since its inception in 2001. The FRSG is a coalition of stakeholders working to assess water quality issues within the Fox River watershed. These issues have a direct impact on the City's NPDES Permit. The FRSG meets monthly with IEPA, NGO's, Stakeholders (other NPDES Permit holders) and involved community members to formulate the most cost-effective and science-based efforts to remove the Fox River from the Illinois Environmental Protection Agency's list of impaired waters (1998 303(d) list). The 2020 budget includes funding to support FRSG's ongoing efforts. FRSG also receives funding through various grants, IEPA and community contributions.

City of Batavia 2020 Annual Budget

Fund #31 — Wastewater Utility Summary

Description	Actual 2017	Actual 2018	Approved Budget 2019	Estimated 2019	Proposed Budget 2020
Surplus and Reserves	\$2,264,930	\$5,447,442		\$6,837,561	\$6,634,697
01 Utility Operating Revenues	\$5,433,377	\$5,593,732	\$5,774,725	\$5,770,772	\$5,900,600
02 Utility Nonoperating Revenues	\$84,581	\$185,900	\$42,500	\$70,525	\$75,500
06 Other Revenues	\$11,371	\$62,364	\$40,000	\$108,000	\$65,000
08 Bond/Loan Debt Proceeds	\$10,428,454	\$18,242,202	\$571,700	\$1,729,344	\$437,096
Total Revenue	\$15,957,783	\$24,084,198	\$6,428,925	\$7,678,641	\$6,478,196
Sewer Capital Improvements	\$9,073,023	\$18,741,041	\$2,270,448	\$2,678,250	\$2,617,797
Waste Water Treatment	\$2,554,650	\$2,639,174	\$2,776,227	\$2,726,865	\$2,855,917
Sanitary Sewer	\$283,451	\$199,726	\$267,624	\$269,124	\$309,715
Revenue Bond Payments	\$864,147	\$1,114,138	\$2,704,834	\$2,207,266	\$2,262,401
Total Expense	\$12,775,271	\$22,694,079	\$8,019,133	\$7,881,505	\$8,045,830
Surplus/(Deficit)	\$3,182,512	\$1,390,119	(\$1,590,208)	(\$202,864)	(\$1,567,634)
Surplus and Reserves	\$5,447,442	\$6,837,561		\$6,634,697	\$5,067,063

City of Batavia 2020 Annual Budget

Revenues

Fund #31 — Wastewater Utility

Acct.	Description	Actual 2017	Actual 2018	Approved Budget 2019	Estimated 2019	Proposed Budget 2020
4710	Residential Sewer Charges	\$3,671,904	\$3,784,467	\$3,916,725	\$3,828,857	\$3,925,600
4715	Comm & Indust Sewer Charges	\$1,707,771	\$1,754,801	\$1,810,000	\$1,889,915	\$1,925,000
4721	Sewer Penalties	\$53,702	\$54,464	\$48,000	\$52,000	\$50,000
	01 Utility Operating Revenues	\$5,433,377	\$5,593,732	\$5,774,725	\$5,770,772	\$5,900,600
4725	Sewer Treatment Charges	\$15,795	\$17,550	\$17,000	\$28,000	\$25,000
4735	Sanitary Sewer Inspection	\$315	\$350	\$500	\$525	\$500
4740	Sewer Connections	\$68,471	\$168,000	\$25,000	\$42,000	\$50,000
	02 Utility Nonoperating Revenues	\$84,581	\$185,900	\$42,500	\$70,525	\$75,500
5000	Investment Income	\$11,371	\$62,364	\$40,000	\$108,000	\$65,000
	06 Other Revenues	\$11,371	\$62,364	\$40,000	\$108,000	\$65,000
4750	Bond/Loan Proceeds	\$10,428,454	\$18,242,202	\$571,700	\$1,729,344	\$437,096
	08 Bond/Loan Debt Proceeds	\$10,428,454	\$18,242,202	\$571,700	\$1,729,344	\$437,096
	Total Revenue	\$15,957,783	\$24,084,198	\$6,428,925	\$7,678,641	\$6,478,196

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #00 — Revenues

Detail on Significant Items

Account

4750	Bond/Loan Proceeds		
	Area 3 IEPA Loan		\$437,096
		Total	\$437,096

City of Batavia 2020 Annual Budget

Expenditures

Fund #31 — Wastewater Utility

Department #81 — Sewer Capital Improvements

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2017	2018	Budget	2019	Budget
				2019		2020
6450	Vehicles & Equipment	\$208,001	\$245,550	\$75,000	\$29,130	\$75,000
6473	Sanitary Sewer Capital	\$274,519	\$479,405	\$1,750,448	\$741,737	\$1,802,797
6475	Wastewater Treatment Infrastructure	\$8,590,503	\$18,016,086	\$445,000	\$1,907,383	\$740,000
	Sewer Capital Improvements	\$9,073,023	\$18,741,041	\$2,270,448	\$2,678,250	\$2,617,797

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #81 — Sewer Capital Improvements

Detail on Significant Items

Account

6450	Vehicles & Equipment	
	SCADA for Lift Stations	\$75,000
	Total	\$75,000
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6473	Sanitary Sewer Capital	
	CIPP Lining (Morton, S.Batavia Ave, Morton St Alley)	\$150,000
	Design Engineering for Main St. CIPP Lining	\$47,950
	Sanitary Sewer Collection System Rehabilitation (Scheduled for 2022 however Main St. project postponed)	\$300,000
	Ward 1 Sanitary Sewer Repairs/Replacements	\$35,000
	50% of Area 3 Sewer Separation	\$480,806
	50 % of Main Street Sewer Separation	\$789,041
	Total	\$1,802,797
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6475	Wastewater Treatment Infrastructure	
	Design Engineering WWTP (PH2)	\$375,000
	Replacement Grit Washer	\$50,000
	Update Facility Plan	\$75,000
	Repair of Fine Screens in Headworks	\$100,000
	Replacement of Randall Rd. Lift Station	\$140,000
	Total	\$740,000

City of Batavia 2020 Annual Budget

Expenditures

Fund #31 — Wastewater Utility

Department #82 — Waste Water Treatment

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2017	2018	Budget 2019	2019	Budget 2020
6101	Salaries and Wages	\$529,828	\$560,319	\$611,901	\$628,746	\$663,783
6102	Overtime	\$28,707	\$31,594	\$38,000	\$36,770	\$29,645
6103	Double-time	\$20,528	\$14,647	\$27,206	\$19,080	\$35,573
6104	Stand-by	\$39,459	\$39,659	\$38,283	\$39,146	\$38,933
6107	Part-time Wages	\$21,096	\$21,528	\$13,569	\$15,870	\$5,000
6120	City Health Ins Contribution	\$129,751	\$135,522	\$147,854	\$155,214	\$150,402
6121	City IMRF Pension Contribution	\$144,074	\$166,958	\$73,971	\$74,835	\$98,449
6122	City Share FICA and Medicare	\$47,274	\$49,081	\$55,765	\$56,580	\$59,129
6126	Workers Compensation Contrib	\$10,000	\$10,000	\$10,000	\$10,000	\$25,000
6205	Memberships	\$270	\$270	\$350	\$380	\$400
6210	Training & Seminars	\$2,962	\$2,570	\$3,800	\$2,000	\$3,800
6230	Office Supplies	\$585	\$579	\$5,000	\$6,500	\$700
6238	Lab Supplies	\$7,301	\$3,577	\$15,000	\$12,000	\$20,000
6241	Fuel	\$3,800	\$7,074	\$7,000	\$3,600	\$7,000
6248	Regulatory Fees	\$15,500	\$15,500	\$15,500	\$15,656	\$15,656
6250	Telephone	\$35,749	\$6,265	\$6,000	\$3,000	\$3,500
6255	Clothing & Uniforms	\$3,777	\$4,117	\$4,200	\$4,200	\$4,500
6258	Chemicals	\$26,069	\$74,694	\$100,000	\$136,810	\$40,000
6260	Utilities	\$497,496	\$508,717	\$550,000	\$521,400	\$550,000
6261	Safety Supplies	\$436	\$593	\$2,000	\$3,000	\$2,000
6264	General Supplies	\$10,853	\$7,831	\$24,000	\$17,500	\$15,000
6310	R & M Vehicles	\$4,891	\$3,541	\$4,000	\$1,500	\$4,000
6315	R & M Building	\$57	\$18,366	\$10,000	\$5,000	\$48,300
6340	R & M Field Equipment	\$113,883	\$73,069	\$135,000	\$75,000	\$155,000
6351	Property & Liability Insurance	\$28,039	\$54,243	\$45,000	\$60,000	\$62,250
6355	Professional Services	\$61,162	\$27,278	\$15,750	\$36,000	\$19,000
6365	Landfill Fees	\$144,379	\$200,028	\$180,000	\$150,000	\$100,000
6625	Bad Debt Expense	\$5,164	\$10,006	\$10,000	\$10,000	\$10,000
6629	Water/Sewer Metering	\$121,560	\$121,548	\$127,078	\$127,078	\$138,897
6630	General Fund Administration	\$500,000	\$470,000	\$500,000	\$500,000	\$550,000
	Waste Water Treatment	\$2,554,650	\$2,639,174	\$2,776,227	\$2,726,865	\$2,855,917

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #82 — Waste Water Treatment

Detail on Significant Items

Account

Personnel

- (1) Superintendent of Wastewater
- (1) Chief Operator
- (4) Wastewater Plant Operator
- (1) Lab Technician
- (1) PT Administrative Assistant

6101	Salaries and Wages	
	Requesting Administrative Assistant to increase hours again due to additional workload.	\$16,252
	Total	\$16,252

6210	Training & Seminars	
	As of 2019 the IEPA requires continuing education credits for all Wastewater Operators.	\$3,800
	Total	\$3,800

6238	Lab Supplies	
	Purchase New Lab equipment.	\$20,000
	Total	\$20,000

6241	Fuel	
	Generator and Vehicle Fuel	\$7,000
	Total	\$7,000

6315	R & M Building	
	Several lift stations in need of new roofs	\$40,000
	Building Access and Security Monitoring	\$8,300
	Total	\$48,300

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #82 — Waste Water Treatment

Detail on Significant Items

Account

6340 R & M Field Equipment

R&M as necessary \$140,000

SCADA R&M \$15,000

Total \$155,000

6351 Property & Liability Insurance

Increased cost for property/WWTP \$62,250

Total \$62,250

6355 Professional Services

Annual Backflow Prevention Testing \$750

Outsourced lab analysis \$2,000

Annual Contribution to Fox River Study Group \$6,250

Various Professional Services \$10,000

Total \$19,000

6365 Landfill Fees

Expect significant reduction in fees due to new processes and equipment \$100,000

Total \$100,000

City of Batavia 2020 Annual Budget

Expenditures

Fund #31 — Wastewater Utility

Department #83 — Sanitary Sewer

Acct.	Description	Actual	Actual	Approved	Estimated	Proposed
		2017	2018	Budget	2019	Budget
				2019		2020
6210	Training & Seminars	\$294	\$0	\$500	\$300	\$500
6240	Materials	\$1,048	\$0	\$1,200	\$1,000	\$1,200
6241	Fuel	\$2,815	\$2,936	\$2,900	\$2,900	\$3,000
6255	Clothing & Uniforms	\$845	\$779	\$800	\$800	\$800
6264	General Supplies	\$5,219	\$159	\$1,500	\$2,400	\$2,000
6268	Water/Sewer Meters	\$98,337	\$96,265	\$100,000	\$98,000	\$100,000
6310	R & M Vehicles	\$1,034	\$309	\$2,000	\$1,000	\$1,500
6340	R & M Field Equipment	\$4,455	\$3,313	\$5,500	\$3,500	\$5,500
6351	Property & Liability Insurance	\$0	\$255	\$1,250	\$1,250	\$1,315
6355	Professional Services	\$67,186	\$20,975	\$23,500	\$29,500	\$61,500
6627	SS Share Water Salaries	\$102,218	\$74,735	\$128,474	\$128,474	\$132,400
	Sanitary Sewer	\$283,451	\$199,726	\$267,624	\$269,124	\$309,715

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #83 — Sanitary Sewer

Detail on Significant Items

Account

6355	Professional Services	
	Reimbursements/Sewer Roddings	\$10,000
	Root Foaming	\$12,000
	Emergency Sanitary Sewer Point Repairs	\$15,000
	General Consulting and Engineering	\$20,000
	Julie Services	\$4,500
	Total	\$61,500

City of Batavia 2020 Annual Budget

Expenditures

Fund #31 — Wastewater Utility

Department #98 — Revenue Bond Payments

Acct.	Description	Actual 2017	Actual 2018	Approved Budget 2019	Estimated 2019	Proposed Budget 2020
6601	Principal Payment	\$797,752	\$816,662	\$2,136,084	\$1,780,885	\$1,843,945
6602	Interest Expense	\$66,395	\$297,476	\$568,750	\$426,381	\$418,456
	Revenue Bond Payments	\$864,147	\$1,114,138	\$2,704,834	\$2,207,266	\$2,262,401

City of Batavia 2020 Annual Budget

Fund # 31 — Wastewater Utility

Department #98 — Revenue Bond Payments

Detail on Significant Items

Account

6601	Principal Payment	
	GO Bond Series 2013 - Treatment Plant Due 11/01/2020	\$680,000
	GO Bond Series - Lift Station Due 11/01/2020	\$20,000
	Recovery Bonds Payment Due 12/15/2020	\$110,911
	L17-4245 IEPA Phase 1 WTP 04/30/2020	\$514,267
	L17-4245 IEPA Loan Phase 1 WTP 10/30/20	\$518,767
	Total	\$1,843,945

6602	Interest Expense	
	GO Bonds Series 2013 - Treatment Plant Due 05/01/2020	\$6,800
	GO Bond Series 2013 - Treatment Plant Due 11/01/2020	\$6,800
	GO Bond Series 2013 - Lift Station Due 05/01/2020	\$200
	GO Bond Series 2013 - Lift Station Due 11/01/2020	\$200
	Recovery Bonds Interest Due 06/15/2020	\$2,662
	Recovery Bonds Interest Due 12/15/2020	\$2,662
	L17-4245 IEPA Loan for WTP 04/30/2020	\$201,816
	L17-4245 IEPA Loan for WTP 10/30/2020	\$197,316
	Total	\$418,456