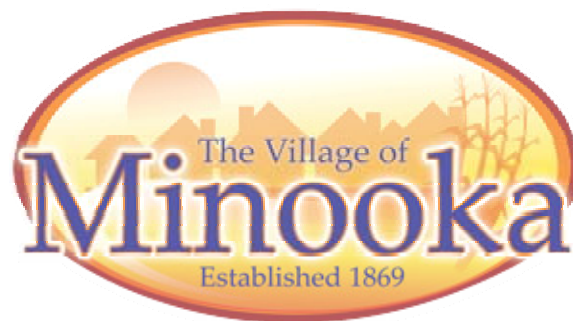




June 2, 2021

Water and Sewer User Rate Study

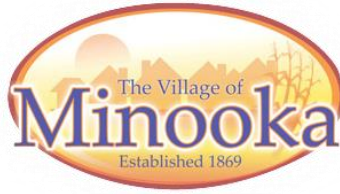
Village of Minooka, IL



Prepared by:

Jon Cameron, CIPMA
Senior Municipal Advisor

Water & Sewer User Rate Study Table of Content



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Executive Summary

KEY FINDINGS

- The Village annually increases user rates by 3.00% for both the Water and Sewer Utilities with the last rate increase taking effect May 1, 2020.
- Presently, all Water Utility customers pay \$14.96 for the first 4,000 gallons used bi-monthly and \$3.74/1,000 gallons used thereafter.
- All Sewer Utility customers presently pay \$22.84 for the first 4,000 gallons used bi-monthly and \$5.71/1,000 gallons thereafter.
- Historically, the Utility collects as a percentage of total sales revenue:
 - Apartments, 2%
 - Commercial, 15%
 - Governmental, 2%
 - Industrial, less than 1%
 - Non-Profit, less than 1%
 - Rental, 8%
 - Residential, 73%
- From 2019 to 2021 water operating and maintenance (O&M) Expenses have increased approximately 28%, and sanitary sewer O&M expenses have increased 34% over the same period when adjusting for repairs of Wastewater Treatment Expenses that may be capitalized.
- The study shows that sewer user rates are currently adequate to meet existing annual expenses, whereas water user rates are not sufficient to meet existing annual expenses.
- We recommend the Utility continue to charge users a volumetric rate each billing period (bi-monthly) with a minimum charge applied to the first 4,000 gallons used bi-monthly.
- To fund its Capital Improvement Plan (CIP), we recommend the Utility use a combination of debt and cash financing, with the majority of the cash funding coming from tap-on fees and other segregated funds such as the Wastewater Treatment Facility Land Fund, and the Deep Well Fund.
- For this study three rate setting scenarios were prepared for the Utilities summarized as follows:
 - A break-even scenario showing the recommended user rates to allow both Utilities to be self sufficient and make minimum investments in capital over the planning period.



- o A mid-level user rate scenario which calculates user rates again for both utilities to be self-sufficient, but to also provide for an additional level of capital spending and reinvestment into the utilities.
- o A full funding scenario establishing the user rates for both utilities to recover their full replacement expense, expressed as an annual contribution. The user rates in this scenario allow both utilities to establish reserves to be able to cash fund or have rates at a level to assume debt on the replacement of existing water and sewer infrastructure.

Further description and analysis of these findings are found in this Executive Summary, the Study and its Sections.

RECOMMENDATIONS

A summary of the current and recommended user rates by scenario are shown below. Based on historical performance and the results of the Study, we recommend the Village at a minimum adopt user rates for the break-even scenario. This would result in an approximate user rate increase of approximately 13% for the average single-family home on the total bi-monthly water and sewer utility bill, with almost all the increase attributed to the water utility.

	Water Rate Per 1,000 Gal	Sewer Rate Per 1,000 Gal	Total Bi-Monthly Utility Bill	\$ Increase Over Current	% Increase Over Current
Current User Rates	\$3.74	\$5.71	\$75.60		
Break Even Scenario	\$4.92	\$5.74	\$85.28	\$9.68	12.80%
Mid-Level Scenario	\$5.23	\$5.74	\$87.76	\$12.16	16.08%
Full Scenario	\$7.45	\$8.28	\$125.84	\$50.24	66.46%

* Based on assumed usage of 4,000 Gallons per Month (8,000 Bi-Monthly)

As the Village continues to refine its CIP and plan for an increase to future capital expenses the Village may need to consider additional rate increases in line with the mid-level or full funding scenarios. In addition, the mid-level scenario does show the need for a 12% rate increase to sewer rates in 2024 as the new debt for energy updates to the Treatment Facility and the Village’s share of the I-80 utilities extension project proceed. This is shown on Table 15 of the mid-level scenario. All scenarios recommend and show the Village continue with an annual 3.0% increase to both water and sewer rates.

The Village also relies on tap-on fees for both Utilities to wholly fund projects relating to serving future growth. Village staff have indicated to Ehlers that projects identified in the CIP as being funded by tap-on fees will not be needed unless there is significant new growth within the Village. Therefore, these projects currently do not have a component that will be paid for via user rates. If in the future the Village proceeds with these projects and tap on fees are not at a level sufficient to pay the cost of these new facilities,



additional user rate increases may need to be considered to help pay for the shortfall in tap-on fees.

Introduction and Overview

The Village engaged Ehlers in 2020 to perform a Utility Rate Study (the “Study”) to determine whether user rates are fully recovering current costs. In addition, the Village realizes that past levels of capital improvement spending have been lacking primarily due to user rates being set at low levels. Village staff asked that as part of this study two additional user rate scenarios be prepared to show what user rates would be with higher levels of planning for future capital projects.

Along with the Study, the Village engaged Ehlers to complete a long-range cash flow analysis for the Utilities which develops recommendations for future rate increases required to support both Utilities’ Capital Improvement Plans (“CIP”), and projected increases to the Utilities’ operating budgets. Lastly, the study develops recommendations about how to pay for capital projects in each year through a combination of debt instruments and available cash. This Executive Summary identifies the findings, recognizes the methodology used, and reviews the results of the Study completed for the Village.

RATE SETTING OBJECTIVES

When designing rates, we consider many generally accepted practices and industry standards. The subsequent guidelines were followed in completing the rate design portion of the Study.

- Rates should be fair and equitable to all customers
- Rates should be easy to administer and to understand
- Rates should be defensible

KEY ASSUMPTIONS

- The study develops recommended user rates based on a test year.
- The recommended rates follow the Village’s current user rate structure:
 - A volumetric rate per 1,000 gallons with a minimum charge applied to the first 4,000 gallons used bi-monthly. The minimum charge is based upon the calculated volumetric rate times 4,000 gallons of usage.
- The study was completed using the Cash-Basis to determine a revenue requirement, explained further in the “Study Methodology” Section.
- Flow projections are based on historical averages and held constant for a level of conservatism.



- After historical analysis and discussions with staff no material growth assumptions were made for meter counts or flows beyond the test year.
- Operating expenses beyond the 2021/2022 budget were projected at 3.0% increases per year.

STUDY PURPOSE

Several goals were established for the Study, including:

1. Assess financial performance trends in recent past.
2. Develop user rates at a level where both Utilities are self-sufficient, meaning they are generating adequate revenues from user rates to pay for all outstanding financial obligations.
3. Develop user rates at a level where the Utility is building adequate cash to maintain at least a minimum level of reinvestment with other rate scenarios showing larger capital investments.
4. Incorporate the Village's CIP for both Utilities.
5. Develop a rate structure that is fair and equitable for all customer classes and consistent with current billing practices.

STUDY METHODOLOGY AND USER RATE SCENARIOS

Rate development and planning require projections of revenue needs. To establish those revenue needs, the generally accepted methodology of the cash-based method was used. Under the cash-based method, a revenue requirement is established for a test year using several components. These components include: The Utility's current year budgeted operation and maintenance expenses, transfers, debt service on existing and/or planned utility debt, and cash funded capital. The components added together less other revenues not generated through user rates serve as the requirement that should be recovered through user rates. The test year for this study is the 2021/2022 Fiscal Year.

As stated in the sections above the Village requested three user rate scenarios for the test year:

- A break-even scenario showing user rates for the current operating and maintenance budget, current CIP less any Utility financed portion of the I-80 utilities extension project and a minimum level positive annual cash flow for both utilities. The result is a 31.6% increase to water rates and a 0.5% increase to sewer rates.
- A mid-level user rate scenario which includes the same revenue requirements as the break-even scenario, but adds the estimated Village financed portion of the I-80 utility extension project for both utilities as planning for an additional \$100,000 of annual capital project funding within the water utility. This scenario results in a 39.8% increase to water rates and a 0.5% increase to sewer rates. However, this



scenario does also show the need for a 12% increase to sewer user rates in 2024 when the I-80 project is completed.

- A full-funding scenario showing what user rates would need to be cover the revenue requirements in the break-even scenario plus fully fund each Utility's annual depreciation expense. Prior to this rate study the Village completed an analysis examining the estimated replacement cost for all utility assets in service as well as developing an annual contribution required to cash fund assets when they require replacement. This scenario would require a water rate increase of 99.2% and a sewer rate increase of 45.0%.

IMPLEMENTATION OF FUTURE PROJECTS

As stated above the Village has identified a Capital Improvement Plan (CIP) that will provide for reinvestment and maintenance of the Utility infrastructure by scenario. Currently the Village plans to issue debt for upcoming energy efficiency projects at the Wastewater Treatment Plant and possibly issue debt for a portion of the I-80 Utilities extension project. There are other projects and annual capital expenses the Village plans to cash fund, which are incorporated into the revenue requirement for both utilities. The larger projects shown in the out years of each CIP are planned to fund be funded with tap-on fees, or through existing segregated Village accounts such as the Wastewater Treatment Facility Land Fund and the Deep Well Fund. It is understood from Village staff that projects anticipated to be paid via tap-on fees will only occur if there is significant continued future growth within the Village.

PROJECTED FUTURE DEBT CONSIDERATIONS

To the extent debt instruments are used, it was assumed that the Village would issue IEPA loans to fund the projects listed for debt financing in the CIP for each scenario. The IEPA loan program offers subsidized loans for water and sewer infrastructure projects. Consideration should be given to any debt issuance recommended after 2022, at the time planning to finance the projects, as other debt instruments may be more attractive to the Village at that time.

USER RATE PEER COMMUNITY COMPARISON ANALYSIS

A user rate comparison was prepared as part of the study showing current and calculated user rates in Minooka by scenario compared to peer communities. The results of the analysis show the Village's current water and sewer rates are lower than its peer communities, and even with the break-even rate increase they still will be lower than all peer communities surveyed.



**Village of Minooka, IL
User Rate Comparison Analysis**

Municipality	<u>Monthly Water User Rates (4,000 Gal/Month Use)</u>			<u>Monthly Sewer User Rates (4,000 Gal/Month Use)</u>			Total Monthly User Charges
	Customer Charge	Volumetric Rate/ 000 Gallons	Total Monthly Water Bill	Customer Charge	Volumetric Rate/ 000 Gallons	Total Monthly Sewer Bill	
Yorkville ²	\$8.25	(See Note)	\$58.17	\$52.49	(See Note)	\$52.49	\$110.66
Plainfield ⁴	\$6.50	\$10.28	\$47.62	\$0.00	\$5.45	\$21.82	\$69.44
Channahon	\$2.50	\$6.60	\$28.90	\$2.50	\$8.14	\$35.06	\$63.96
Minooka (Full Scenario)	\$0.00	\$7.45	\$29.80	\$0.00	\$8.28	\$33.12	\$62.92
Shorewood	\$3.38	\$4.48	\$21.30	\$12.55	\$7.15	\$41.15	\$62.45
Joliet ³	\$6.18	(See Note)	\$25.91	\$5.37	\$5.37	\$26.87	\$52.78
Minooka (Mid-Level)	\$0.00	\$5.23	\$20.92	\$0.00	\$5.74	\$22.96	\$43.88
Morris ¹	(See Note)	\$7.74	(See Note)	(See Note)	\$7.74	(See Note)	\$42.76
Minooka (Break Even)	\$0.00	\$4.92	\$19.68	\$0.00	\$5.74	\$22.96	\$42.64
Minooka (Current)	\$0.00	\$3.74	\$14.96	\$0.00	\$5.71	\$22.84	\$37.80

Notes:

- Morris has a flat rate up to 4,000 gallons used per quarter of 66.37 and a volumetric rate of \$7.74/1,000 gallons for usage above 4,000 gallons.
- Yorkville water rates: \$17 for up to 350 cubic feet, \$4.30 per 100 cubic ft thereafter. Rate payers also pay \$6.24 per 1,000 gallons to Fox Metro for Grande Reserve.
- Joliet has a water volumetric rate of \$1.64 for the first two hundred cubic feet and a rate of \$4.91 for any usage over 200 cubic feet.
- Plainfield has a \$6.50 Capital Improvement Charge for maintenance of water and sewer infrastructure.



ACKNOWLEDGEMENTS

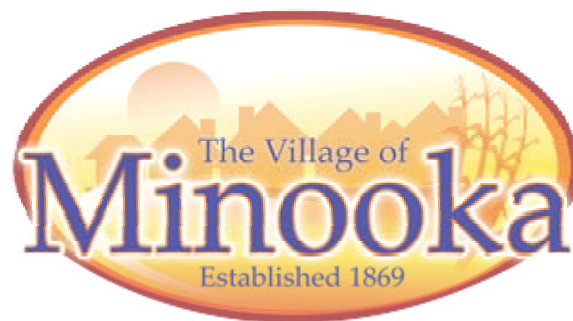
On behalf of the project team, we would like to acknowledge the commitment and contributions provided by several members of Village staff in completing this project. In particular we would like to recognize: Mr. John Harrington, Finance Director and Mr. Ryan Anderson, Superintendent of Public Works for their input and guidance throughout the course of this study.



June 2, 2021

Test Year 2022 Water and Sewer Utility User Rate Study Break Even Scenario

Village of Minooka, IL



Prepared by:

Jon Cameron, CIPMA
Senior Municipal Advisor

Table 1

Water Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,148,996	\$1,200,000	\$1,350,000
Percent Increase to User Rates			
Cumulative Percent Rate Increase			
Dollar Amount Increase to Revenues			
Other Revenues			
Interest Income	\$28,092	\$28,000	\$6,500
Other Income	\$126,921	\$87,100	\$51,500
Total Other Revenues	\$155,013	\$115,100	\$58,000
Total Revenues	\$1,304,009	\$1,315,100	\$1,408,000
Expenses			
Operating and Maintenance	\$738,442	\$860,200	\$944,300
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$565,567	\$454,900	\$463,700
Debt Service			
Existing Debt P&I ¹	\$325,200	\$330,100	\$327,200
New (2022-2031) Debt Service P&I			
Total Debt Service	\$325,200	\$330,100	\$327,200
Transfer In (Out)/Cap. Contrib.	(\$125,000)	(\$135,000)	(\$125,000)
Capital Improvements	\$174,427	\$197,400	\$173,600
Bond Proceeds/Grants	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	(\$59,060)	(\$207,600)	(\$162,100)

Notes:

Table 2 Water Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Drill Deep Well #10	Deep Well Fund							750,000				750,000
Cation Exchange Treatment Plant for Potable Well 10	Tap-On Fees										3,000,000	3,000,000
Cation Exchange Treatment Plant for Potable Wells 3,6,7,11	Tap-On Fees										3,000,000	3,000,000
Utility Extensions I-80 North	IEPA Loan			0								0
Routine Capital Replacement (meters, hydrants, etc)	Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Actual CIP Costs		304,500	185,000	188,700	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	8,859,106

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
IEPA Loan	0	0	0	0	0	0	0	0	0	0	0
Equipment Replacement Fund	0	0	0	0	0	0	0	0	0	0	0
Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Tap-On Fees	0	0	0	0	0	0	0	0	0	6,000,000	6,000,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
Water Tower Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	0	0	0
Deep Well Fund	0	0	0	0	0	0	750,000	0	0	0	750,000
Total	304,500	185,000	188,700	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	8,859,106

Notes:

1. I80 extension costs are taken from the cost analysis for the project provided by Village staff as of March, 2021. Costs are the Village portion only and prorated between water and sewer.
2. Routine capital expenses include a larger than normal meter replacement project in 2022 with more routine levels planned in 2023 and beyond. Capital expenses are inflated by 2.0% annually.

Table 3 Water Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget	Projected								
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$1,600,600	\$1,648,618	\$1,698,077	\$1,749,019	\$1,801,489	\$1,855,534	\$1,911,200	\$1,968,536	\$2,027,592	\$2,088,420
Percent Increase to User Rates	31.55%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	31.55%	35.50%	39.56%	43.75%	48.06%	52.50%	57.08%	61.79%	66.64%	71.64%
Dollar Amount Increase to Revenues	\$1,600,600	\$48,018	\$49,459	\$50,942	\$52,471	\$54,045	\$55,666	\$57,336	\$59,056	\$60,828
Other Revenues										
Interest Income	\$0	\$0	\$188	\$697	\$1,319	\$2,049	\$2,866	\$3,802	\$12,936	\$18,578
Other Income	\$77,700	\$78,477	\$79,262	\$80,054	\$80,855	\$81,663	\$82,480	\$83,305	\$84,971	\$86,670
Total Other Revenues	\$77,700	\$78,477	\$79,450	\$80,752	\$82,174	\$83,712	\$85,346	\$87,107	\$97,907	\$105,249
Total Revenues	\$1,678,300	\$1,727,095	\$1,777,526	\$1,829,770	\$1,883,664	\$1,939,246	\$1,996,546	\$2,055,643	\$2,125,499	\$2,193,668
Expenses										
Operating and Maintenance	\$939,200	\$967,376	\$996,397	\$1,026,289	\$1,057,078	\$1,088,790	\$1,121,454	\$1,155,098	\$1,189,750	\$1,225,443
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$739,100	\$759,719	\$781,129	\$803,481	\$826,586	\$850,456	\$875,092	\$900,545	\$935,748	\$968,225
Debt Service										
Existing Debt P&I ¹	\$328,550	\$325,150	\$331,600	\$327,600	\$325,400	\$327,800	\$324,600	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Debt Service	\$328,550	\$325,150	\$331,600	\$327,600	\$325,400	\$327,800	\$324,600	\$0	\$0	\$0
Transfer In (Out)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)
Capital Improvements										
Deep Well Fund	\$304,500	\$185,000	\$188,700	\$192,474	\$196,323	\$200,250	\$954,255	\$208,340	\$212,507	\$6,216,757
Tap On Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000	\$0	\$0	\$0
Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000,000
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Annual Cash Flow	(\$52,950)	\$90,569	\$101,829	\$124,407	\$145,862	\$163,406	\$187,237	\$533,205	\$564,242	\$592,469

Table 4 Projected Test Year 2022 Water Usage

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Village Customers</u>				
Apartment	5,093	5,032	5,062	5,062
Commercial	45,456	45,320	45,375	45,375
Governmental	278,343	19,701	19,700	19,700
Industrial	37,328	37,781	37,500	37,500
Non-Profit	807	677	700	700
Rental	24,633	18,958	21,796	21,796
Residential	195,647	194,740	195,194	195,194
Subtotal Inside Customers	587,307	322,209	325,327	325,327
<u>Total For Rate Calcs</u>				
Usage				325,327

Notes:

1. Source: Village of Minooka Billing and Usage Summary (FY 2019 and 2020)

Table 5 Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING REVENUES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
	Revenue - Water					
02-10-0-412	New Water Meters	24,828	11,000	8,000	8,700	8,700
02-10-0-420	Interest Income	28,092	28,000	6,500	2,300	2,300
02-10-0-430	Miscellaneous Receipts	55,628	40,000	20,000	40,300	40,300
02-10-0-430	Loan Proceeds	0	0	2,400,000	2,500,000	0
02-10-0-438	Finance Charge Income	170	100	500	200	200
02-10-0-450	Water Billing	1,148,996	1,200,000	1,350,000	1,360,000	1,360,000
02-10-0-451	Water Billing Penalty	21,995	28,000	16,000	24,000	24,000
02-10-0-455	Inspection Fee	24,300	8,000	7,000	2,200	2,200
	TOTAL OPERATING REVENUES	\$ 1,304,009	\$ 1,315,100	\$ 3,808,000	3,937,700	1,437,700

Comparative Operating Income Statement

Village of Minooka, IL

ACCT					Proposed Budget	TEST YEAR
NUMBER	OPERATING EXPENSES	2019	2020	2021	2022	2022
Personal Services						
02-10-1-500	Salary	\$ 264,107	289,900	288,000	\$ 282,700	282,700
02-10-1-501	Overtime	9,306	10,000	10,000	10,000	10,000
02-10-1-502	Employee Group Insurance	39,157	25,500	30,000	26,100	26,100
02-10-1-700	Social Security	16,444	18,200	18,200	18,400	18,400
02-10-1-701	Medicare	3,843	4,300	4,300	4,300	4,300
02-10-1-702	IMRF	17,883	14,500	19,300	20,700	20,700
Contractual Services						
02-10-2-511	Data Processing Serv/Training	\$ 15,639	14,900	18,100	\$ 19,200	19,200
02-10-2-512	Engineering Services	3,246	29,000	55,400	108,200	55,400
02-10-2-513	Insurance/Commercial	27,947	27,500	29,200	34,500	34,500
02-10-2-517	Printing and Publishing	2,589	2,400	3,000	2,200	2,200
02-10-2-518	Association Dues	83	0	900	800	800
02-10-2-519	Telephone/Communication	8,615	8,800	8,500	8,200	8,200
02-10-2-520	Electricity	131,627	133,500	169,500	156,600	156,600
02-10-2-521	Heating	2,869	3,300	3,300	3,300	3,300
02-10-2-523	Janitorial Services	2,459	3,100	3,500	3,400	3,400
02-10-2-524	Unemployment Insurance	599	800	700	500	500
02-10-2-526	Public Relations	0	9,500	2,400	1,900	1,900
02-10-2-527	Repair/Maint Office Equip	370	400	1,700	1,700	1,700
02-10-2-529	Professional Services	0	0	1,100	1,100	1,100
02-10-2-561	Repair/Maint Vehicles	3,900	4,000	4,000	4,000	4,000
02-10-2-582	Equipment Rental	0	2,500	2,000	2,000	2,000
02-10-2-583	Seminars & Training	8,374	10,800	10,000	10,500	10,500
02-10-2-585	Uniform Services	1,969	2,100	2,100	3,700	3,700
02-10-2-589	J.U.L.I.E. Locates	16,598	19,200	19,200	19,200	19,200
02-10-2-625	Landscape Services	7,422	6,600	9,000	6,600	6,600
02-10-2-650	Repairs/Maint of Meters	8,310	10,500	10,500	80,500	10,500
02-10-2-651	Repair/Maint Water Tank	4,800	5,500	10,500	17,500	17,500
02-10-2-652	Repair/Maint Waterworks System	19,237	55,800	55,800	55,800	55,800
02-10-2-654	Laboratory Service	11,457	9,800	9,800	9,800	9,800
02-10-2-660	Repairs & Maintenance Wells	15,821	15,000	15,000	15,000	15,000
02-10-2-665	Repairs & Maintenance Bldgs & Grnds	4,846	9,200	13,000	13,000	13,000

Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING EXPENSES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
Commodities						
02-10-3-530	Office Supplies & Postage	\$ 4,881	\$ 5,300	\$ 6,300	\$ 5,800	5,800
02-10-3-532	Chemical Additives	70,426	85,000	85,000	85,000	85,000
02-10-3-533	Laboratory Supplies	1,597	2,500	6,000	10,500	10,500
02-10-3-534	Janitorial Supplies	2,186	1,800	1,800	1,800	1,800
02-10-3-590	Gas, Oil, Etc....	4,976	9,000	8,000	9,000	9,000
02-10-3-597	Safety Equipment & Misc. Tools	1,930	3,000	3,000	3,000	3,000
02-10-3-600	Trees, Gravel, Concrete, Asphalt	2,549	3,500	3,500	3,500	3,500
Other Expenses						
02-10-4-547	Bad Debt Expenses	\$ 0	\$ 2,000	\$ 2,000	\$ 2,000	2,000
02-10-4-541	Miscellaneous Expenses	380	1,500	700	0	0
Capital Outlay						
02-10-5-550	Purchase of Equipment	\$ 16,215	\$ 13,300	\$ 9,500	\$ 70,000	25,000
02-10-5-551	Fire Hydrants	372	19,500	9,800	3,300	3,300
02-10-5-670	Data Processing Equipment	3,509	10,200	0	0	0
02-10-5-671	Meter Replacement	140,637	140,700	154,300	231,200	145,000
02-10-5-672	New Water Meters	13,694	13,700	0	0	0
Transfers						
02-10-4-820	Monthly Trans to Bond & Ins	\$ 325,200	\$ 330,100	\$ 327,200	\$ 329,100	329,100
02-10-4-542	Transfer to Other Funds	125,000	135,000	125,000	159,000	159,000
	Capital Facilities Transfer	0	0	0		
	Capital Infrastructure Transfer	0	0	0		
TOTAL EXPENSES		\$ 1,363,069	\$ 1,522,700	\$ 1,570,100	\$ 1,854,600	1,600,600
NET OPERATING INCOME		\$ <u>(59,060)</u>	\$ <u>(207,600)</u>	\$ <u>2,237,900</u>	\$ <u>2,083,100</u>	<u>(162,900)</u>

Table 6 Volumetric Rate Calculation

Village of Minooka, IL

Does Class have its own Volumetric Rate?

Residential	Multi-Family	Non-Residential	Industrial	Public Authority	Irrigation
No	No	No	No	No	No

Consumption

	Apartment	Commercial	Governmental	Industrial	Non-Profit	Rental	Residential
Block 1	5,062	45,375	19,700	37,500	700	21,796	195,194
Block 2	0	0	0	0	0	0	0
Block 3	0	0	0	0	0	0	0
Block 4	0	0	0	0	0	0	0
Block 5	0	0	0	0	0	0	0

Volume Rates

	First	Mgal	Current Rates	New Rates	% +/-
			\$3.74	\$4.92	32%

Total Revenue	Block 1	Block 2	Block 3	Block 4	Block 5	Total
Apartment	\$ 24,905	\$ -	\$ -	\$ -	\$ -	\$ 24,905
Commercial	\$ 223,244	\$ -	\$ -	\$ -	\$ -	\$ 223,244
Governmental	\$ 96,923	\$ -	\$ -	\$ -	\$ -	\$ 96,923
Industrial	\$ 184,499	\$ -	\$ -	\$ -	\$ -	\$ 184,499
Non-Profit	\$ 3,444	\$ -	\$ -	\$ -	\$ -	\$ 3,444
Rental	\$ 107,236	\$ -	\$ -	\$ -	\$ -	\$ 107,236
Residential	\$ 960,349	\$ -	\$ -	\$ -	\$ -	\$ 960,349

Table 7 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$14.96	\$19.68	\$4.72	31.6%
Residential	Avg. User	8.00	\$29.92	\$39.36	\$9.44	31.6%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.

Table 8 Sewer Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,583,216	\$1,650,000	\$1,718,000
Percent Increase to User Rates			
Cumulative Percent Rate Increase			
Dollar Amount Increase to Revenues			
Other Revenues			
Interest Income	\$0	\$0	\$0
Other Income	\$33,262	\$40,000	\$35,000
Total Other Revenues	\$33,262	\$40,000	\$35,000
Total Revenues	\$1,616,478	\$1,690,000	\$1,753,000
Expenses			
Operating and Maintenance	\$1,037,323	\$2,081,300	\$4,063,800
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$579,155	(\$391,300)	(\$2,310,800)
Debt Service			
Existing Debt P&I ¹	\$0	\$0	\$0
New (2022-2031) Debt Service P&I			
Total Debt Service	\$0	\$0	\$0
Transfer In (Out)	(\$100,000)	(\$110,000)	(\$100,000)
Capital Improvements	\$20,435	\$19,000	\$9,500
Bonds Issued/Grants/Aid	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	\$458,720	(\$520,300)	(\$2,420,300)

Notes:

Table 9 Sewer Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Minooka Road Sanitary Sewer	Cash							450,000				450,000
Wastewater Treatment Plant #2 Land	WWTP Land Fund									1,500,000		1,500,000
Wastewater Treatment Plant #2	Tap On Fees									13,000,000		13,000,000
Sanitary Sewer Forcemain to Plant 2	Tap On Fees										1,875,000	1,875,000
Minooka Road Regional Lift Station	Cash				450,000							450,000
Effluent Discharge Forcemain	Tap On Fees										1,500,000	1,500,000
Utility Extensions I-80 North (Ridge Rd to Wabena)	IEPA Loan			0								0
Routine Capital Replacement	Cash											0
WWTP Energy Efficiency Upgrades	IEPA Loan			2,417,000								2,417,000
Actual CIP Costs		0	0	2,417,000	450,000	0	0	450,000	0	14,500,000	3,375,000	21,192,000

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
G.O. Debt	0	0	0	0	0	0	0	0	0	0	0
Revenue Debt	0	0	0	0	0	0	0	0	0	0	0
Grants/Aids	0	0	0	0	0	0	0	0	0	0	0
Special Assessment	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
IEPA Loan	0	0	2,417,000	0	0	0	0	0	0	0	2,417,000
Tap On Fees	0	0	0	0	0	0	0	0	13,000,000	3,375,000	16,375,000
Cash	0	0	0	450,000	0	0	450,000	0	0	0	900,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	1,500,000	0	1,500,000
Total	0	0	2,417,000	450,000	0	0	450,000	0	14,500,000	3,375,000	21,192,000

Notes:

Table 10

Capital Improvements Financing Plan

Village of Minooka, IL

		2024
		IEPA Loan
CIP Projects¹	2024 Sewer Projects	2,417,000
Less Other Available Revenues		
Cash Available		-
ERF Funds		-
Net Borrowing Requirement		2,417,000
Debt Service Reserve		
Debt Service Reserve Funds On Hand		-
New Debt Service Reserve Requirement		-
Subtotal Reserve Fund Requirement		0
Estimated Issuance Expenses		0
TOTAL TO BE FINANCED		2,417,000
Estimated Interest Earnings	0.00%	0
Assumed spend down (months)	0.00	
Rounding		-
NET BOND SIZE		2,417,000

Notes:

1) Source of Project Totals taken from CIP Table.

Table 11 Sewer Utility Projected Debt Service Payments (PROPOSED)

Village of Minooka, IL

NAME		IEPA Loan, 2024 I80 Extension Project (Sewer Portion)			PROPOSED Sewer Utility Debt Service Summary				
AMT DATED RATE		\$2,417,000 1/1/2024 2.10%							
Year	Principal	Est. Rate ¹	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year
2022					0	0	0		2022
2023					0	0	0		2023
2024	98,489	2.10%	50,757	149,246	98,489	50,757	149,246	2,318,511	2024
2025	100,557	2.10%	48,689	149,246	100,557	48,689	149,246	2,217,954	2025
2026	102,669	2.10%	46,577	149,246	102,669	46,577	149,246	2,115,284	2026
2027	104,825	2.10%	44,421	149,246	104,825	44,421	149,246	2,010,459	2027
2028	107,026	2.10%	42,220	149,246	107,026	42,220	149,246	1,903,433	2028
2029	109,274	2.10%	39,972	149,246	109,274	39,972	149,246	1,794,159	2029
2030	111,569	2.10%	37,677	149,246	111,569	37,677	149,246	1,682,590	2030
2031	113,912	2.10%	35,334	149,246	113,912	35,334	149,246	1,568,679	2031
2032	116,304	2.10%	32,942	149,246	116,304	32,942	149,246	1,452,375	2032
2033	118,746	2.10%	30,500	149,246	118,746	30,500	149,246	1,333,628	2033
2034	121,240	2.10%	28,006	149,246	121,240	28,006	149,246	1,212,389	2034
2035	123,786	2.10%	25,460	149,246	123,786	25,460	149,246	1,088,603	2035
2036	126,385	2.10%	22,861	149,246	126,385	22,861	149,246	962,217	2036
2037	129,040	2.10%	20,207	149,246	129,040	20,207	149,246	833,178	2037
2038	131,749	2.10%	17,497	149,246	131,749	17,497	149,246	701,428	2038
2039	134,516	2.10%	14,730	149,246	134,516	14,730	149,246	566,912	2039
2040	137,341	2.10%	11,905	149,246	137,341	11,905	149,246	429,571	2040
2041	140,225	2.10%	9,021	149,246	140,225	9,021	149,246	289,346	2041
2042	143,170	2.10%	6,076	149,246	143,170	6,076	149,246	146,176	2042
2043	146,176	2.10%	3,070	149,246	146,176	3,070	149,246	0	2043
TOTALS	2,417,000		567,922	2,984,922	2,417,000	567,922	2,984,922		TOTALS

Notes:

1) Rate assumes current IEPA Loan rate of 1.35% plus 75-basis points for possible market movement.

Table 12
Sewer Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget	Projected								
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$1,632,493	\$1,681,467	\$1,731,911	\$1,783,869	\$1,837,385	\$1,892,506	\$1,949,281	\$2,007,760	\$2,067,993	\$2,130,032
Percent Increase to User Rates	0.53%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	0.53%	3.54%	6.65%	9.85%	13.14%	16.54%	20.03%	23.63%	27.34%	31.16%
Dollar Amount Increase to Revenues	\$1,632,493	\$48,975	\$50,444	\$51,957	\$53,516	\$55,122	\$56,775	\$58,478	\$60,233	\$62,040
Other Revenues										
Interest Income	\$0	\$0	\$1,785	\$2,366	\$1,918	\$2,634	\$3,395	\$3,077	\$3,928	\$4,827
Other Income	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Other Revenues	\$0	\$0	\$1,785	\$2,366	\$1,918	\$2,634	\$3,395	\$3,077	\$3,928	\$4,827
Total Revenues	\$1,632,493	\$1,681,467	\$1,733,696	\$1,786,235	\$1,839,302	\$1,895,140	\$1,952,677	\$2,010,837	\$2,071,920	\$2,134,860
Expenses										
Operating and Maintenance	\$1,127,900	\$1,161,737	\$1,196,589	\$1,232,487	\$1,269,461	\$1,307,545	\$1,346,772	\$1,387,175	\$1,428,790	\$1,471,654
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$504,593	\$519,730	\$537,107	\$553,748	\$569,841	\$587,595	\$605,905	\$623,662	\$643,130	\$663,206
Debt Service										
Existing Debt P&I ¹	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246
Total Debt Service	\$0	\$0	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246	\$149,246
Transfer In (Out)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)
Capital Improvements	\$21,200	\$21,200	\$2,438,200	\$450,000	\$0	\$0	\$450,000	\$0	\$14,500,000	\$3,375,000
Bonds Issued/Grants/Aid	\$0	\$0	\$2,417,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WWTP Land Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0
Tap On Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,000,000	\$3,375,000
Net Annual Cash Flow	\$349,393	\$364,530	\$232,661	(\$179,498)	\$286,595	\$304,349	(\$127,341)	\$340,416	\$359,884	\$379,960

Table 13 Projected Test Year 2022 WWTF Flows

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Inside Customers</u>				
Apartment	5,092	5,160	5,062	5,062
Commercial	39,279	42,715	40,000	40,000
Governmental	4,176	8,209	5,000	5,000
Industrial	74	869	860	860
Non-Profit	744	674	700	700
Rental	24,425	19,434	20,000	22,000
Residential	189,626	195,385	190,000	195,000
Subtotal Inside Customers	263,417	272,448	261,622	268,622
<u>Metered Usage</u>				
Commercial	3,213	1,775	1,984	1,984
Industrial	13,522	14,032	13,800	13,800
<u>Wastewater Treatment Facility</u>				
Total Billable	280,152	288,255	277,406	284,406
Total For Rate Calcs				284,406

Notes:

Table 14
Historical Expenses and 2022 Proposed Budget for Sewer Utility

Village of Minooka, IL

Account Number	Account Description	2019 ACTUAL	2020 ACTUAL	2021 ESTIMATED	2022 BUDGET	2022 TEST YEAR
Personal Services						
02-20-1-500	Salary	281,074	300,600	319,000	279,800	279,800
02-20-1-501	Overtime	4,324	10,000	12,000	10,000	10,000
02-20-1-502	Employee Group Insurance	45,391	32,900	40,000	34,600	34,600
02-20-1-700	Social Security	17,013	19,500	20,800	18,200	18,200
02-20-1-701	Medicare	3,976	4,600	4,800	4,300	4,300
02-20-1-702	IMRF	18,376	15,000	21,800	20,400	20,400
	Subtotal	370,154	382,600	418,400	367,300	367,300
Contractual Services						
02-20-2-511	Data Processing Service	14,049	14,900	16,900	18,200	18,200
02-20-2-512	Engineering Service	120,899	118,000	318,600	185,800	185,800
02-20-2-513	Insurance/Commerical	28,315	27,700	29,800	34,400	34,400
02-20-2-517	Printing and Pulications	2,593	2,400	2,000	2,000	2,000
02-20-2-518	Association Dues/Meeting Exp	83	0	600	800	800
02-20-2-519	Telephone Communciations	7,419	6,400	11,800	11,200	11,200
02-20-2-520	Electricity	114,600	107,100	130,000	127,300	127,300
02-20-2-521	Heating	1,781	2,400	2,400	2,400	2,400
02-20-2-523	Janitorial Services	2,449	3,100	3,400	3,400	3,400
02-20-2-524	Unemployment Insurance	756	900	800	500	500
02-20-2-527	Repair/Maitne Office Equipment	383	400	1,400	900	900
02-20-529	Professional Services	0	0	2,000	1,800	1,800
02-20-2-561	Repair/Maint Vehicles	2,203	2,400	2,400	2,400	2,400
02-20-2-582	Equipment Rental	345	2,000	2,000	2,000	2,000
02-20-2-583	Semianrs Training	8,827	7,900	6,800	8,100	8,100
02-20-2-585	Uniform Service	1,952	2,100	2,100	2,400	2,400
02-20-2-589	J.U.L.I.E. locates	17,773	18,500	22,000	18,500	18,500
02-20-2-625	Landscape Service	3,775	12,000	4,800	2,000	2,000
02-20-2-650	NPDES Permit Fees	17,500	17,500	17,500	17,500	17,500
02-20-2-654	Laboratory Services	12,589	10,000	10,000	10,000	10,000
02-20-2-685	Repair/Mainteance Sanitary Service	86,319	279,000	120,000	48,000	48,000
02-20-2-686	Sludge Hauling	34,540	40,000	30,000	30,000	30,000
02-20-2-687	Repairs/Maint Wastewater Plant	104,776	871,900	2,731,600	2,478,300	61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	3,172	6,700	16,000	15,000	15,000
02-20-2-690	Sewer Cleaning & Televising	3,300	32,800	44,400	44,400	44,400
	Subtotal	590,398	1,586,100	3,529,300	3,067,300	650,300
Commodities						
02-20-3-530	Office Supplies & Postage	4,885	6,000	7,000	5,700	5,700
02-20-3-532	Chemical Additives	43,510	66,400	66,400	71,000	71,000
02-20-3-533	Laboratory Supplies	6,678	7,000	7,000	7,000	7,000
02-20-3-590	Gas, Oil, Etc	11,211	11,100	11,100	11,000	11,000
02-20-3-594	Janitorial Supplies	2,425	2,500	2,500	2,500	2,500
02-20-3-595	Supplies Maint Sewer System	0	6,500	6,500	0	0
02-20-3-597	Safety Equipment & Misc Tools	1,018	3,500	6,000	3,500	3,500
	Subtotal	69,727	103,000	106,500	100,700	100,700
Other Expenses						
02-20-4-547	Bad Debt Expense	0	2,000	2,000	2,000	2,000
02-20-4-541	Miscellaneous	7,044	7,600	7,600	7,600	7,600
	Subtotal	7,044	9,600	9,600	9,600	9,600
Capital Outlay						
02-20-5-550	Purchase of Equipment	17,129	19,000	9,500	21,200	21,200
02-20-5-670	Data Processing Equipment	3,306	0	0	0	0
	Subtotal	20,435	19,000	9,500	21,200	21,200
02-20-4-546	Transfer to Other Funds	100,000	110,000	100,000	134,000	134,000
	Transfer to Monthly Debt Service Fund	0	0	0	0	0
	Deposit to Reserves	0	0	0	0	350,000
	Total	1,157,758	2,210,300	4,173,300	3,700,100	1,633,100

Table 15 Allocation of Costs to Function

Village of Minooka, IL

			WWTF	
		Flow	2022 Budget	Flow
Operating & Maintenance				
<u>Acct #</u>	<u>Acct Description</u>			
Personal Services				
		100%	\$0	\$0
02-20-1-500	Salary	100%	\$279,800	\$279,800
02-20-1-501	Overtime	100%	\$10,000	\$10,000
02-20-1-502	Employee Group Insurance	100%	\$34,600	\$34,600
02-20-1-700	Social Security	100%	\$18,200	\$18,200
02-20-1-701	Medicare	100%	\$4,300	\$4,300
02-20-1-702	IMRF	100%	\$20,400	\$20,400
	Subtotal		\$367,300	\$367,300
Contractual Services				
02-20-2-511	Data Processing Service	100%	\$18,200	\$18,200
02-20-2-512	Engineering Service	100%	\$185,800	\$185,800
02-20-2-513	Insurance/Commerical	100%	\$34,400	\$34,400
02-20-2-517	Printing and Publications	100%	\$2,000	\$2,000
02-20-2-518	Association Dues/Meeting Exp	100%	\$800	\$800
02-20-2-519	Telephone Communciations	100%	\$11,200	\$11,200
02-20-2-520	Electricity	100%	\$127,300	\$127,300
02-20-2-521	Heating	100%	\$2,400	\$2,400
02-20-2-523	Janitorial Services	100%	\$3,400	\$3,400
02-20-2-524	Unemployment Insurance	100%	\$500	\$500
02-20-2-527	Repair/Maitne Office Equipment	100%	\$900	\$900
02-20-2-561	Repair/Maint Vehicles	100%	\$2,400	\$2,400
02-20-2-582	Equipment Rental	100%	\$2,000	\$2,000
02-20-2-583	Semianrs Training	100%	\$8,100	\$8,100
02-20-2-585	Uniform Service	100%	\$2,400	\$2,400
02-20-2-589	J.U.L.I.E. locates	100%	\$18,500	\$18,500
02-20-2-625	Landscape Service	100%	\$2,000	\$2,000
02-20-2-650	NPDES Permit Fees	100%	\$17,500	\$17,500
02-20-2-654	Laboratory Services	100%	\$10,000	\$10,000
02-20-2-685	Repair/Mainteance Sanitary Service	100%	\$48,000	\$48,000
02-20-2-686	Sludge Hauling	100%	\$30,000	\$30,000
02-20-2-687	Repairs/Maint Wastewater Plant	100%	\$61,300	\$61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	100%	\$15,000	\$15,000
02-20-2-690	Sewer Cleaning & Televising	100%	\$44,400	\$44,400
	Subtotal		\$648,500	\$648,500
Commodities				
02-20-3-530	Office Supplies & Postage	100%	\$5,700	\$5,700
02-20-3-532	Chemical Additives	100%	\$71,000	\$71,000
02-20-3-533	Laboratory Supplies	100%	\$7,000	\$7,000
02-20-3-590	Gas, Oil, Etc	100%	\$11,000	\$11,000
02-20-3-594	Janitorial Supplies	100%	\$2,500	\$2,500
02-20-3-595	Supplies Maint Sewer System	100%	\$0	\$0
02-20-3-597	Safety Equipment & Misc Tools	100%	\$3,500	\$3,500
	Subtotal		\$100,700	\$100,700
Other Expenses				
02-20-4-547	Bad Debt Expense	100%	\$2,000	\$2,000
02-20-4-541	Miscellaneous	100%	\$7,600	\$7,600
	Subtotal		\$9,600	\$9,600
Capital Outlay				
02-20-5-550	Purchase of Equipment	100%	\$21,200	\$21,200
02-20-5-670	Data Processing Equipment	100%	\$0	\$0
	Subtotal		\$21,200	\$21,200
02-20-4-546	Transfer to Other Funds	100%	\$484,000	\$484,000
Total Net Revenue Requirements			\$1,631,300	\$1,631,300

Table 16 Rate Computation Worksheet

Village of Minooka, IL

Calculation of Inside Customer Rates			
Volumetric Charges			
<u>Charge Type</u>	<u>Cost</u>	<u>Billable Units (1,000 Gal or lbs)</u>	<u>Rate/Unit</u>
Flow Charge per 1000 Gal	\$1,631,300	284,406	\$5.74
Total Volumetric Rate per 1000 Gal			\$5.74

Table 17 Rate Summary (Charges)

Village of Minooka, IL

	Current	COS	2022 Proposed
Domestic Sewer Customers			
Volumetric Rate per 1000 Gal	\$5.71	\$5.74	\$5.74

Table 18 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$22.84	\$22.96	\$0.12	0.5%
Residential	Avg. User	8.00	\$45.68	\$45.92	\$0.24	0.5%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.



June 2, 2021

Test Year 2022 Water and Sewer Utility User Rate Study Mid-Level Rate Scenario

Village of Minooka, IL



Prepared by:

Jon Cameron, CIPMA
Senior Municipal Advisor

Table 1

Water Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,148,996	\$1,200,000	\$1,350,000
Percent Increase to User Rates			
Cumulative Percent Rate Increase			
Dollar Amount Increase to Revenues			
Other Revenues			
Interest Income	\$28,092	\$28,000	\$6,500
Other Income	\$126,921	\$87,100	\$51,500
Total Other Revenues	\$155,013	\$115,100	\$58,000
Total Revenues	\$1,304,009	\$1,315,100	\$1,408,000
Expenses			
Operating and Maintenance	\$738,442	\$860,200	\$944,300
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$565,567	\$454,900	\$463,700
Debt Service			
Existing Debt P&I ¹	\$325,200	\$330,100	\$327,200
New (2022-2031) Debt Service P&I			
Total Debt Service	\$325,200	\$330,100	\$327,200
Transfer In (Out)/Cap. Contrib.	(\$125,000)	(\$135,000)	(\$125,000)
Capital Improvements	\$174,427	\$197,400	\$173,600
Bond Proceeds/Grants	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	(\$59,060)	(\$207,600)	(\$162,100)

Notes:

Table 2 Water Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Drill Deep Well #10	Deep Well Fund							750,000				750,000
Cation Exchange Treatment Plant for Potable Well 10	Tap-On Fees										3,000,000	3,000,000
Cation Exchange Treatment Plant for Potable Wells 3,6,7,11	Tap-On Fees										3,000,000	3,000,000
Utility Extensions I-80 North	IEPA Loan			1,548,058								1,548,058
Routine Capital Replacement (meters, hydrants, etc)	Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Actual CIP Costs		304,500	185,000	1,736,758	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	10,407,164

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
IEPA Loan	0	0	1,548,058	0	0	0	0	0	0	0	1,548,058
Equipment Replacement Fund	0	0	0	0	0	0	0	0	0	0	0
Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Tap-On Fees	0	0	0	0	0	0	0	0	0	6,000,000	6,000,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
Water Tower Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	0	0	0
Deep Well Fund	0	0	0	0	0	0	750,000	0	0	0	750,000
Total	304,500	185,000	1,736,758	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	10,407,164

Notes:

1. I80 extension costs are taken from the cost analysis for the project provided by Village staff as of March, 2021.
2. Routine capital expenses include a larger than normal meter replacement project in 2022 with more routine levels planned in 2023 and beyond. Capital expenses are inflated by 2.0% annually.

Table 3 Capital Improvements Financing Plan *Village of Minooka, IL*

	2024	
		IEPA Loan
CIP Projects¹		1,548,058
Less Other Available Revenues		
Cash Available		-
ERF Funds		-
Net Borrowing Requirement		1,548,058
Debt Service Reserve		
Debt Service Reserve Funds On Hand		-
New Debt Service Reserve Requirement		-
Subtotal Reserve Fund Requirement		0
Estimated Issuance Expenses		0
TOTAL TO BE FINANCED		1,548,058
Estimated Interest Earnings	0.00%	0
Assumed spend down (months)	0.00	
Rounding		0
NET BOND SIZE		1,548,058

Notes:

1) Source of Project Totals taken from the Water Utility CIP table.

Table 4 Water Utility Projected Debt Service Payments (PROPOSED)

Village of Minooka, IL

NAME	IEPA Loan, 2024 Water Portion of I80 Extension			PROPOSED Water Utility Debt Service Summary				
AMT	\$1,548,058							
DATED	1/1/2024							
RATE	2.10%							
Year	Principal	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year
2022				0	0	0	1,548,058	2022
2023				0	0	0	1,548,058	2023
2024	67,941	27,649	95,590	67,941	27,649	95,590	1,480,117	2024
2025	68,859	26,732	95,590	68,859	26,732	95,590	1,411,258	2025
2026	69,788	25,802	95,590	69,788	25,802	95,590	1,341,470	2026
2027	70,730	24,860	95,590	70,730	24,860	95,590	1,270,740	2027
2028	71,685	23,905	95,590	71,685	23,905	95,590	1,199,055	2028
2029	72,653	22,937	95,590	72,653	22,937	95,590	1,126,402	2029
2030	73,634	21,957	95,590	73,634	21,957	95,590	1,052,768	2030
2031	74,628	20,962	95,590	74,628	20,962	95,590	978,140	2031
2032	75,635	19,955	95,590	75,635	19,955	95,590	902,505	2032
2033	76,656	18,934	95,590	76,656	18,934	95,590	825,849	2033
2034	77,691	17,899	95,590	77,691	17,899	95,590	748,158	2034
2035	78,740	16,850	95,590	78,740	16,850	95,590	669,418	2035
2036	79,803	15,787	95,590	79,803	15,787	95,590	589,615	2036
2037	80,880	14,710	95,590	80,880	14,710	95,590	508,734	2037
2038	81,972	13,618	95,590	81,972	13,618	95,590	426,762	2038
2039	83,079	12,511	95,590	83,079	12,511	95,590	343,683	2039
2040	84,200	11,390	95,590	84,200	11,390	95,590	259,483	2040
2041	85,337	10,253	95,590	85,337	10,253	95,590	174,146	2041
2042	86,489	9,101	95,590	86,489	9,101	95,590	87,657	2042
2043	87,657	7,933	95,590	87,657	7,933	95,590	0	2043
2044				0	0	0	0	2044
2045				0	0	0	0	2045
2046				0	0	0	0	2046
2047				0	0	0	0	2047
2048				0	0	0	0	2048
2049				0	0	0	0	2049
2050				0	0	0	0	2050
TOTALS	1,548,058	363,747	1,911,805	1,548,058	363,747	1,911,805		TOTALS

Notes:

- 1) Rate assumes the current IEPA loan rate of 1.35% plus 75-basis points for market movement.
- 2) Rate assumes a 3.00% estimated future interest rate.

Table 5 Water Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget	Projected								
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$1,700,600	\$1,751,618	\$1,804,167	\$1,858,292	\$1,914,040	\$1,971,461	\$2,030,605	\$2,091,523	\$2,154,269	\$2,218,897
Percent Increase to User Rates	39.77%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	39.77%	43.96%	48.28%	52.73%	57.31%	62.03%	66.89%	71.90%	77.06%	82.37%
Dollar Amount Increase to Revenues	\$1,700,600	\$51,018	\$52,549	\$54,125	\$55,749	\$57,421	\$59,144	\$60,918	\$62,746	\$64,628
Other Revenues										
Interest Income	\$0	\$0	\$1,203	\$1,770	\$2,466	\$3,285	\$4,210	\$5,272	\$16,165	\$22,151
Other Income	\$77,700	\$78,477	\$79,262	\$80,054	\$80,855	\$81,663	\$82,480	\$83,305	\$84,971	\$86,670
Total Other Revenues	\$77,700	\$78,477	\$80,465	\$81,824	\$83,321	\$84,949	\$86,690	\$88,577	\$101,136	\$108,821
Total Revenues	\$1,778,300	\$1,830,095	\$1,884,631	\$1,940,116	\$1,997,361	\$2,056,410	\$2,117,296	\$2,180,101	\$2,255,406	\$2,327,719
Expenses										
Operating and Maintenance	\$939,200	\$967,376	\$996,397	\$1,026,289	\$1,057,078	\$1,088,790	\$1,121,454	\$1,155,098	\$1,189,750	\$1,225,443
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$839,100	\$862,719	\$888,234	\$913,827	\$940,283	\$967,620	\$995,842	\$1,025,003	\$1,065,655	\$1,102,276
Debt Service										
Existing Debt P&I ¹	\$328,550	\$325,150	\$331,600	\$327,600	\$325,400	\$327,800	\$324,600	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590
Total Debt Service	\$328,550	\$325,150	\$427,190	\$423,190	\$420,990	\$423,390	\$420,190	\$95,590	\$95,590	\$95,590
Transfer In (Out)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)
Capital Improvements										
Deep Well Fund	\$304,500	\$185,000	\$1,736,758	\$192,474	\$196,323	\$200,250	\$954,255	\$208,340	\$212,507	\$6,216,757
Tap On Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000	\$0	\$0	\$0
Bond Proceeds	\$0	\$0	\$1,548,058	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000,000
Net Annual Cash Flow	\$47,050	\$193,569	\$113,344	\$139,162	\$163,969	\$184,980	\$212,397	\$562,073	\$598,558	\$630,929

Table 6 Projected Test Year 2022 Water Usage

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Village Customers</u>				
Apartment	5,093	5,032	5,062	5,062
Commercial	45,456	45,320	45,375	45,375
Governmental	278,343	19,701	19,700	19,700
Industrial	37,328	37,781	37,500	37,500
Non-Profit	807	677	700	700
Rental	24,633	18,958	21,796	21,796
Residential	195,647	194,740	195,194	195,194
Subtotal Inside Customers	587,307	322,209	325,327	325,327
<u>Total For Rate Calcs</u>				
Usage				325,327

Notes:

1. Source: Village of Minooka Billing and Usage Summary (FY 2019 and 2020)

Table 7 Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING REVENUES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
	Revenue - Water					
02-10-0-412	New Water Meters	24,828	11,000	8,000	8,700	8,700
02-10-0-420	Interest Income	28,092	28,000	6,500	2,300	2,300
02-10-0-430	Miscellaneous Receipts	55,628	40,000	20,000	40,300	40,300
02-10-0-430	Loan Proceeds	0	0	2,400,000	2,500,000	0
02-10-0-438	Finance Charge Income	170	100	500	200	200
02-10-0-450	Water Billing	1,148,996	1,200,000	1,350,000	1,360,000	1,360,000
02-10-0-451	Water Billing Penalty	21,995	28,000	16,000	24,000	24,000
02-10-0-455	Inspection Fee	24,300	8,000	7,000	2,200	2,200
	TOTAL OPERATING REVENUES	\$ 1,304,009	\$ 1,315,100	\$ 3,808,000	3,937,700	1,437,700

Comparative Operating Income Statement

Village of Minooka, IL

ACCT					Proposed Budget	TEST YEAR
NUMBER	OPERATING EXPENSES	2019	2020	2021	2022	2022
Personal Services						
02-10-1-500	Salary	\$ 264,107	289,900	288,000	\$ 282,700	282,700
02-10-1-501	Overtime	9,306	10,000	10,000	10,000	10,000
02-10-1-502	Employee Group Insurance	39,157	25,500	30,000	26,100	26,100
02-10-1-700	Social Security	16,444	18,200	18,200	18,400	18,400
02-10-1-701	Medicare	3,843	4,300	4,300	4,300	4,300
02-10-1-702	IMRF	17,883	14,500	19,300	20,700	20,700
Contractual Services						
02-10-2-511	Data Processing Serv/Training	\$ 15,639	14,900	18,100	\$ 19,200	19,200
02-10-2-512	Engineering Services	3,246	29,000	55,400	108,200	55,400
02-10-2-513	Insurance/Commercial	27,947	27,500	29,200	34,500	34,500
02-10-2-517	Printing and Publishing	2,589	2,400	3,000	2,200	2,200
02-10-2-518	Association Dues	83	0	900	800	800
02-10-2-519	Telephone/Communication	8,615	8,800	8,500	8,200	8,200
02-10-2-520	Electricity	131,627	133,500	169,500	156,600	156,600
02-10-2-521	Heating	2,869	3,300	3,300	3,300	3,300
02-10-2-523	Janitorial Services	2,459	3,100	3,500	3,400	3,400
02-10-2-524	Unemployment Insurance	599	800	700	500	500
02-10-2-526	Public Relations	0	9,500	2,400	1,900	1,900
02-10-2-527	Repair/Maint Office Equip	370	400	1,700	1,700	1,700
02-10-2-529	Professional Services	0	0	1,100	1,100	1,100
02-10-2-561	Repair/Maint Vehicles	3,900	4,000	4,000	4,000	4,000
02-10-2-582	Equipment Rental	0	2,500	2,000	2,000	2,000
02-10-2-583	Seminars & Training	8,374	10,800	10,000	10,500	10,500
02-10-2-585	Uniform Services	1,969	2,100	2,100	3,700	3,700
02-10-2-589	J.U.L.I.E. Locates	16,598	19,200	19,200	19,200	19,200
02-10-2-625	Landscape Services	7,422	6,600	9,000	6,600	6,600
02-10-2-650	Repairs/Maint of Meters	8,310	10,500	10,500	80,500	10,500
02-10-2-651	Repair/Maint Water Tank	4,800	5,500	10,500	17,500	17,500
02-10-2-652	Repair/Maint Waterworks System	19,237	55,800	55,800	55,800	55,800
02-10-2-654	Laboratory Service	11,457	9,800	9,800	9,800	9,800
02-10-2-660	Repairs & Maintenance Wells	15,821	15,000	15,000	15,000	15,000
02-10-2-665	Repairs & Maintenance Bldgs & Grnds	4,846	9,200	13,000	13,000	13,000

Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING EXPENSES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
Commodities						
02-10-3-530	Office Supplies & Postage	\$ 4,881	\$ 5,300	\$ 6,300	\$ 5,800	5,800
02-10-3-532	Chemical Additives	70,426	85,000	85,000	85,000	85,000
02-10-3-533	Laboratory Supplies	1,597	2,500	6,000	10,500	10,500
02-10-3-534	Janitorial Supplies	2,186	1,800	1,800	1,800	1,800
02-10-3-590	Gas, Oil, Etc....	4,976	9,000	8,000	9,000	9,000
02-10-3-597	Safety Equipment & Misc. Tools	1,930	3,000	3,000	3,000	3,000
02-10-3-600	Trees, Gravel, Concrete, Asphalt	2,549	3,500	3,500	3,500	3,500
Other Expenses						
02-10-4-547	Bad Debt Expenses	\$ 0	\$ 2,000	\$ 2,000	\$ 2,000	2,000
02-10-4-541	Miscellaneous Expenses	380	1,500	700	0	0
Capital Outlay						
02-10-5-550	Purchase of Equipment	\$ 16,215	\$ 13,300	\$ 9,500	\$ 70,000	25,000
02-10-5-551	Fire Hydrants	372	19,500	9,800	3,300	3,300
02-10-5-670	Data Processing Equipment	3,509	10,200	0	0	0
02-10-5-671	Meter Replacement	140,637	140,700	154,300	231,200	145,000
02-10-5-672	New Water Meters	13,694	13,700	0	0	0
Transfers						
02-10-4-820	Monthly Trans to Bond & Ins	\$ 325,200	\$ 330,100	\$ 327,200	\$ 329,100	329,100
02-10-4-542	Transfer to Other Funds	125,000	135,000	125,000	159,000	159,000
	Monthly Trans to New IEPA Loan	0	0	0	0	0
	Capital Infrastructure Reserves	0	0	0	100,000	100,000
TOTAL EXPENSES		\$ 1,363,069	\$ 1,522,700	\$ 1,570,100	\$ 1,954,600	1,700,600
NET OPERATING INCOME		\$ <u>(59,060)</u>	\$ <u>(207,600)</u>	\$ <u>2,237,900</u>	\$ <u>1,983,100</u>	<u>(262,900)</u>

Table 8 Volumetric Rate Calculation

Village of Minooka, IL

Does Class have its own Volumetric Rate?

Residential	Multi-Family	Non-Residential	Industrial	Public Authority	Irrigation
No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>

Consumption

	Apartment	Commercial	Governmental	Industrial	Non-Profit	Rental	Residential
Block 1	5,062	45,375	19,700	37,500	700	21,796	195,194
Block 2	0	0	0	0	0	0	0
Block 3	0	0	0	0	0	0	0
Block 4	0	0	0	0	0	0	0
Block 5	0	0	0	0	0	0	0

Volume Rates

		Current Rates	New Rates	% +/-
First	<input type="text"/> Mgal	<input type="text"/> \$3.74	<input type="text"/> \$5.23	<input type="text"/> 40%

Total Revenue	Block 1	Block 2	Block 3	Block 4	Block 5	Total
Apartment	\$ 26,461	\$ -	\$ -	\$ -	\$ -	\$ 26,461
Commercial	\$ 237,191	\$ -	\$ -	\$ -	\$ -	\$ 237,191
Governmental	\$ 102,979	\$ -	\$ -	\$ -	\$ -	\$ 102,979
Industrial	\$ 196,026	\$ -	\$ -	\$ -	\$ -	\$ 196,026
Non-Profit	\$ 3,659	\$ -	\$ -	\$ -	\$ -	\$ 3,659
Rental	\$ 113,935	\$ -	\$ -	\$ -	\$ -	\$ 113,935
Residential	\$ 1,020,348	\$ -	\$ -	\$ -	\$ -	\$ 1,020,348

Table 9 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$14.96	\$20.91	\$5.95	39.8%
Residential	Avg. User	8.00	\$29.92	\$41.82	\$11.90	39.8%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.

Table 10 Sewer Rate Performance

Village of Minooka, IL

Shown with no increase				
Revenue Requirement				Est
Component	Description	2019	2020	2021
Cash Basis				
1	Operating and Maintenance	\$0	\$0	\$0
2	Debt	\$0	\$0	\$0
3	Cash Funded Capital	\$0	\$0	\$0
Less:				
	Other Revenue	\$0	\$0	\$0
	Interest Income	\$0	\$0	\$0
	Revenue Requirement (Costs less Other Income)	\$0	\$0	\$0
	User Rates Revenue	\$0	\$0	\$0
	Rate Adequacy	\$0	\$0	\$0
Utility Basis				
1	Operating and Maintenance	\$0	\$0	\$0
2	Depreciation	\$0	\$0	\$0
	NIRB	\$0	\$0	\$0
3	Recommended ROI (2.5%)	\$0	\$0	\$0
Less:				
	Other Revenue	\$0	\$0	\$0
	Interest Income	\$0	\$0	\$0
	Revenue Requirement (Costs less Other Income)	\$0	\$0	\$0
	User Rates Revenue	\$0	\$0	\$0
	Rate Adequacy	\$0	\$0	\$0

Table 11 Sewer Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,583,216	\$1,650,000	\$1,718,000
Other Revenues			
Interest Income	\$0	\$0	\$0
Other Income	\$33,262	\$40,000	\$35,000
Total Other Revenues	\$33,262	\$40,000	\$35,000
Total Revenues	\$1,616,478	\$1,690,000	\$1,753,000
Expenses			
Operating and Maintenance	\$1,037,323	\$2,081,300	\$4,063,800
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$579,155	-\$391,300	-\$2,310,800
Debt Service			
Existing Debt P&I ¹	\$0	\$0	\$0
New (2022-2031) Debt Service P&I			
Total Debt Service	\$0	\$0	\$0
Transfer In (Out)	(\$100,000)	(\$110,000)	(\$100,000)
Capital Improvements	\$20,435	\$19,000	\$9,500
Bonds Issued/Grants/Aid	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	\$458,720	(\$520,300)	(\$2,420,300)

Notes:

Table 12 Sewer Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Minooka Road Sanitary Sewer	Cash							450,000				450,000
Wastewater Treatment Plant #2 Land	WWTP Land Fund									1,500,000		1,500,000
Wastewater Treatment Plant #2	Tap On Fees									13,000,000		13,000,000
Sanitary Sewer Forcemain to Plant 2	Tap On Fees										1,875,000	1,875,000
Minooka Road Regional Lift Station	Cash				450,000							450,000
Effluent Discharge Forcemain	Tap On Fees										1,500,000	1,500,000
Utility Extensions I-80 North	IEPA Loan			915,494								915,494
Routine Capital Replacement	Cash											0
WWTP Energy Efficiency Upgrades	IEPA Loan			2,417,000								2,417,000
Actual CIP Costs		0	0	3,332,494	450,000	0	0	450,000	0	14,500,000	3,375,000	22,107,494

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
G.O. Debt	0	0	0	0	0	0	0	0	0	0	0
Revenue Debt	0	0	0	0	0	0	0	0	0	0	0
Grants/Aids	0	0	0	0	0	0	0	0	0	0	0
Special Assessment	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
IEPA Loan	0	0	3,332,494	0	0	0	0	0	0	0	3,332,494
Tap On Fees	0	0	0	0	0	0	0	0	13,000,000	3,375,000	16,375,000
Cash	0	0	0	450,000	0	0	450,000	0	0	0	900,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	1,500,000	0	1,500,000
Total	0	0	3,332,494	450,000	0	0	450,000	0	14,500,000	3,375,000	22,107,494

Notes:

1. I80 extension costs are taken from the cost analysis for the project provided by Village staff as of March, 2021.

Table 13

Capital Improvements Financing Plan

Village of Minooka, IL

		2024
		IEPA Loan
CIP Projects¹	2024 Sewer Projects	3,332,494
Less Other Available Revenues		
Cash Available		-
ERF Funds		-
Net Borrowing Requirement		3,332,494
Debt Service Reserve		
Debt Service Reserve Funds On Hand		-
New Debt Service Reserve Requirement		-
Subtotal Reserve Fund Requirement		0
Estimated Issuance Expenses		0
TOTAL TO BE FINANCED		3,332,494
Estimated Interest Earnings	0.00%	0
Assumed spend down (months)	0.00	
Rounding		-
NET BOND SIZE		3,332,494

Notes:

1) Source of Project Totals taken from CIP Table.

Table 14 Sewer Utility Projected Debt Service Payments (PROPOSED)

Village of Minooka, IL

NAME		IEPA Loan, 2024 180 Extension Project (Sewer Portion)			PROPOSED Sewer Utility Debt Service Summary				
AMT DATED RATE		\$3,332,494 1/1/2024 2.10%							
Year	Principal	Est. Rate ¹	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year
2022					0	0	0	3,332,494	2022
2023					0	0	0	3,332,494	2023
2024	135,794	2.10%	69,982	205,776	135,794	69,982	205,776	3,196,700	2024
2025	138,646	2.10%	67,131	205,776	138,646	67,131	205,776	3,058,054	2025
2026	141,557	2.10%	64,219	205,776	141,557	64,219	205,776	2,916,497	2026
2027	144,530	2.10%	61,246	205,776	144,530	61,246	205,776	2,771,967	2027
2028	147,565	2.10%	58,211	205,776	147,565	58,211	205,776	2,624,402	2028
2029	150,664	2.10%	55,112	205,776	150,664	55,112	205,776	2,473,738	2029
2030	153,828	2.10%	51,948	205,776	153,828	51,948	205,776	2,319,910	2030
2031	157,058	2.10%	48,718	205,776	157,058	48,718	205,776	2,162,851	2031
2032	160,357	2.10%	45,420	205,776	160,357	45,420	205,776	2,002,495	2032
2033	163,724	2.10%	42,052	205,776	163,724	42,052	205,776	1,838,771	2033
2034	167,162	2.10%	38,614	205,776	167,162	38,614	205,776	1,671,608	2034
2035	170,673	2.10%	35,104	205,776	170,673	35,104	205,776	1,500,936	2035
2036	174,257	2.10%	31,520	205,776	174,257	31,520	205,776	1,326,679	2036
2037	177,916	2.10%	27,860	205,776	177,916	27,860	205,776	1,148,763	2037
2038	181,652	2.10%	24,124	205,776	181,652	24,124	205,776	967,110	2038
2039	185,467	2.10%	20,309	205,776	185,467	20,309	205,776	781,643	2039
2040	189,362	2.10%	16,415	205,776	189,362	16,415	205,776	592,281	2040
2041	193,339	2.10%	12,438	205,776	193,339	12,438	205,776	398,943	2041
2042	197,399	2.10%	8,378	205,776	197,399	8,378	205,776	201,544	2042
2043	201,544	2.10%	4,232	205,776	201,544	4,232	205,776	0	2043
TOTALS	3,332,494		783,035	4,115,529	3,332,494	783,035	4,115,529		TOTALS

Notes:

1) Rate assumes the current IEPA loan rate of 1.35% plus 75-basis points for market movement.

Table 15
Sewer Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget		Projected							
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$1,632,493	\$1,681,467	\$1,883,243	\$1,939,741	\$1,997,933	\$2,057,871	\$2,119,607	\$2,183,195	\$2,248,691	\$2,316,152
Percent Increase to User Rates	0.53%	3.00%	12.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	0.53%	3.54%	15.97%	19.45%	23.03%	26.72%	30.52%	34.44%	38.47%	42.62%
Dollar Amount Increase to Revenues	\$1,632,493	\$48,975	\$201,776	\$56,497	\$58,192	\$59,938	\$61,736	\$63,588	\$65,496	\$67,461
Other Revenues										
Interest Income	\$0	\$0	\$1,732	\$2,550	\$2,297	\$3,222	\$4,203	\$4,118	\$5,216	\$6,377
Other Income	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Other Revenues	\$0	\$0	\$1,732	\$2,550	\$2,297	\$3,222	\$4,203	\$4,118	\$5,216	\$6,377
Total Revenues	\$1,632,493	\$1,681,467	\$1,884,975	\$1,942,291	\$2,000,230	\$2,061,093	\$2,123,810	\$2,187,314	\$2,253,907	\$2,322,529
Expenses										
Operating and Maintenance	\$1,127,900	\$1,161,737	\$1,196,589	\$1,232,487	\$1,269,461	\$1,307,545	\$1,346,772	\$1,387,175	\$1,428,790	\$1,471,654
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$504,593	\$519,730	\$688,386	\$709,804	\$730,769	\$753,548	\$777,039	\$800,139	\$825,117	\$850,875
Debt Service										
Existing Debt P&I ¹	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776
Total Debt Service	\$0	\$0	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776
Transfer In (Out)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)
Capital Improvements	\$42,400	\$21,200	\$3,353,694	\$471,200	\$21,200	\$21,200	\$471,200	\$21,200	\$14,521,200	\$3,396,200
Bonds Issued/Grants/Aid	\$0	\$0	\$3,332,494	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WWTP Land Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0
Tap On Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,000,000	\$3,375,000
Net Annual Cash Flow	\$328,193	\$364,530	\$327,410	(\$101,172)	\$369,792	\$392,571	(\$33,938)	\$439,163	\$464,141	\$489,898

Table 16 Projected Test Year 2022 WWTF Flows

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Inside Customers</u>				
Apartment	5,092	5,160	5,062	5,062
Commercial	39,279	42,715	40,000	40,000
Governmental	4,176	8,209	5,000	5,000
Industrial	74	869	860	860
Non-Profit	744	674	700	700
Rental	24,425	19,434	20,000	22,000
Residential	189,626	195,385	190,000	195,000
Subtotal Inside Customers	263,417	272,448	261,622	268,622
<u>Metered Usage</u>				
Commercial	3,213	1,775	1,984	1,984
Industrial	13,522	14,032	13,800	13,800
<u>Wastewater Treatment Facility</u>				
Total Billable	280,152	288,255	277,406	284,406
Total For Rate Calcs				284,406

Notes:

Table 17
Historical Expenses and 2022 Proposed Budget for Sewer Utility

Village of Minooka, IL

Account Number	Account Description	2019 ACTUAL	2020 ACTUAL	2021 ESTIMATED	2022 BUDGET	2022 TEST YEAR
Personal Services						
02-20-1-500	Salary	281,074	300,600	319,000	279,800	279,800
02-20-1-501	Overtime	4,324	10,000	12,000	10,000	10,000
02-20-1-502	Employee Group Insurance	45,391	32,900	40,000	34,600	34,600
02-20-1-700	Social Security	17,013	19,500	20,800	18,200	18,200
02-20-1-701	Medicare	3,976	4,600	4,800	4,300	4,300
02-20-1-702	IMRF	18,376	15,000	21,800	20,400	20,400
	Subtotal	370,154	382,600	418,400	367,300	367,300
Contractual Services						
02-20-2-511	Data Processing Service	14,049	14,900	16,900	18,200	18,200
02-20-2-512	Engineering Service	120,899	118,000	318,600	185,800	185,800
02-20-2-513	Insurance/Commerical	28,315	27,700	29,800	34,400	34,400
02-20-2-517	Printing and Pulications	2,593	2,400	2,000	2,000	2,000
02-20-2-518	Association Dues/Meeting Exp	83	0	600	800	800
02-20-2-519	Telephone Communciations	7,419	6,400	11,800	11,200	11,200
02-20-2-520	Electricity	114,600	107,100	130,000	127,300	127,300
02-20-2-521	Heating	1,781	2,400	2,400	2,400	2,400
02-20-2-523	Janitorial Services	2,449	3,100	3,400	3,400	3,400
02-20-2-524	Unemployment Insurance	756	900	800	500	500
02-20-2-527	Repair/Maitne Office Equipment	383	400	1,400	900	900
02-20-529	Professional Services	0	0	2,000	1,800	1,800
02-20-2-561	Repair/Maint Vehicles	2,203	2,400	2,400	2,400	2,400
02-20-2-582	Equipment Rental	345	2,000	2,000	2,000	2,000
02-20-2-583	Semianrs Training	8,827	7,900	6,800	8,100	8,100
02-20-2-585	Uniform Service	1,952	2,100	2,100	2,400	2,400
02-20-2-589	J.U.L.I.E. locates	17,773	18,500	22,000	18,500	18,500
02-20-2-625	Landscape Service	3,775	12,000	4,800	2,000	2,000
02-20-2-650	NPDES Permit Fees	17,500	17,500	17,500	17,500	17,500
02-20-2-654	Laboratory Services	12,589	10,000	10,000	10,000	10,000
02-20-2-685	Repair/Mainteance Sanitary Service	86,319	279,000	120,000	48,000	48,000
02-20-2-686	Sludge Hauling	34,540	40,000	30,000	30,000	30,000
02-20-2-687	Repairs/Maint Wastewater Plant	104,776	871,900	2,731,600	2,478,300	61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	3,172	6,700	16,000	15,000	15,000
02-20-2-690	Sewer Cleaning & Televising	3,300	32,800	44,400	44,400	44,400
	Subtotal	590,398	1,586,100	3,529,300	3,067,300	650,300
Commodities						
02-20-3-530	Office Supplies & Postage	4,885	6,000	7,000	5,700	5,700
02-20-3-532	Chemical Additives	43,510	66,400	66,400	71,000	71,000
02-20-3-533	Laboratory Supplies	6,678	7,000	7,000	7,000	7,000
02-20-3-590	Gas, Oil, Etc	11,211	11,100	11,100	11,000	11,000
02-20-3-594	Janitorial Supplies	2,425	2,500	2,500	2,500	2,500
02-20-3-595	Supplies Maint Sewer System	0	6,500	6,500	0	0
02-20-3-597	Safety Equipment & Misc Tools	1,018	3,500	6,000	3,500	3,500
	Subtotal	69,727	103,000	106,500	100,700	100,700
Other Expenses						
02-20-4-547	Bad Debt Expense	0	2,000	2,000	2,000	2,000
02-20-4-541	Miscellaneous	7,044	7,600	7,600	7,600	7,600
	Subtotal	7,044	9,600	9,600	9,600	9,600
Capital Outlay						
02-20-5-550	Purchase of Equipment	17,129	19,000	9,500	21,200	21,200
02-20-5-670	Data Processing Equipment	3,306	0	0	0	0
	Subtotal	20,435	19,000	9,500	21,200	21,200
02-20-4-546	Transfer to Other Funds	100,000	110,000	100,000	134,000	134,000
	Transfer to Monthly Debt Service Fund	0	0	0	0	0
	Deposit to Reserves	0	0	0	0	350,000
	Total	1,157,758	2,210,300	4,173,300	3,700,100	1,633,100

Table 18
Allocation of Costs to Function

Village of Minooka, IL

	Flow	2022 Budget	Flow
Operating & Maintenance			
<u>Acct #</u>	<u>Acct Description</u>		
Personal Services			
		100%	\$0
02-20-1-500	Salary	100%	\$279,800
02-20-1-501	Overtime	100%	\$10,000
02-20-1-502	Employee Group Insurance	100%	\$34,600
02-20-1-700	Social Security	100%	\$18,200
02-20-1-701	Medicare	100%	\$4,300
02-20-1-702	IMRF	100%	\$20,400
	Subtotal		\$367,300
Contractual Services			
02-20-2-511	Data Processing Service	100%	\$18,200
02-20-2-512	Engineering Service	100%	\$185,800
02-20-2-513	Insurance/Commerical	100%	\$34,400
02-20-2-517	Printing and Publications	100%	\$2,000
02-20-2-518	Association Dues/Meeting Exp	100%	\$800
02-20-2-519	Telephone Communciations	100%	\$11,200
02-20-2-520	Electricity	100%	\$127,300
02-20-2-521	Heating	100%	\$2,400
02-20-2-523	Janitorial Services	100%	\$3,400
02-20-2-524	Unemployment Insurance	100%	\$500
02-20-2-527	Repair/Maitne Office Equipment	100%	\$900
02-20-2-561	Repair/Maint Vehicles	100%	\$2,400
02-20-2-582	Equipment Rental	100%	\$2,000
02-20-2-583	Semianrs Training	100%	\$8,100
02-20-2-585	Uniform Service	100%	\$2,400
02-20-2-589	J.U.L.I.E. locates	100%	\$18,500
02-20-2-625	Landscape Service	100%	\$2,000
02-20-2-650	NPDES Permit Fees	100%	\$17,500
02-20-2-654	Laboratory Services	100%	\$10,000
02-20-2-685	Repair/Mainteance Sanitary Service	100%	\$48,000
02-20-2-686	Sludge Hauling	100%	\$30,000
02-20-2-687	Repairs/Maint Wastewater Plant	100%	\$61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	100%	\$15,000
02-20-2-690	Sewer Cleaning & Televising	100%	\$44,400
	Subtotal		\$650,300
Commodities			
02-20-3-530	Office Supplies & Postage	100%	\$5,700
02-20-3-532	Chemical Additives	100%	\$71,000
02-20-3-533	Laboratory Supplies	100%	\$7,000
02-20-3-590	Gas, Oil, Etc	100%	\$11,000
02-20-3-594	Janitorial Supplies	100%	\$2,500
02-20-3-595	Supplies Maint Sewer System	100%	\$0
02-20-3-597	Safety Equipment & Misc Tools	100%	\$3,500
	Subtotal		\$100,700
Other Expenses			
02-20-4-547	Bad Debt Expense	100%	\$2,000
02-20-4-541	Miscellaneous	100%	\$7,600
	Subtotal		\$9,600
Capital Outlay			
02-20-5-550	Purchase of Equipment	100%	\$21,200
02-20-5-670	Data Processing Equipment	100%	\$0
	Subtotal		\$21,200
02-20-4-546	Transfer to Other Funds	100%	\$484,000
Total Net Revenue Requirements			\$1,633,100
			\$1,631,300

Table 19 Rate Computation Worksheet

Village of Minooka, IL

Calculation of Inside Customer Rates			
Volumetric Charges			
<u>Charge Type</u>	<u>Cost</u>	<u>Billable Units (1,000 Gal or lbs)</u>	<u>Rate/Unit</u>
Flow Charge per 1000 Gal	\$1,631,300	284,406	\$5.74
Total Volumetric Rate per 1000 Gal			\$5.74

Table 20 Rate Summary (Charges)

Village of Minooka, IL

	Current	COS	2022 Proposed
Domestic Sewer Customers			
Volumetric Rate per 1000 Gal	\$5.71	\$5.74	\$5.74

Table 21 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$22.84	\$22.96	\$0.12	0.5%
Residential	Avg. User	8.00	\$45.68	\$45.92	\$0.24	0.5%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.



June 2, 2021

Test Year 2022 Water and Sewer Utility User Rate Study Full Rate Recovery Model

Village of Minooka, IL



Prepared by:

Jon Cameron, CIPMA
Senior Municipal Advisor

Table 1

Water Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,148,996	\$1,200,000	\$1,350,000
Percent Increase to User Rates			
Cumulative Percent Rate Increase			
Dollar Amount Increase to Revenues			
Other Revenues			
Interest Income	\$28,092	\$28,000	\$6,500
Other Income	\$126,921	\$87,100	\$51,500
Total Other Revenues	\$155,013	\$115,100	\$58,000
Total Revenues	\$1,304,009	\$1,315,100	\$1,408,000
Expenses			
Operating and Maintenance	\$738,442	\$860,200	\$944,300
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$565,567	\$454,900	\$463,700
Debt Service			
Existing Debt P&I ¹	\$325,200	\$330,100	\$327,200
New (2022-2031) Debt Service P&I			
Total Debt Service	\$325,200	\$330,100	\$327,200
Transfer In (Out)/Cap. Contrib.	(\$125,000)	(\$135,000)	(\$125,000)
Capital Improvements	\$174,427	\$197,400	\$173,600
Bond Proceeds/Grants	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	(\$59,060)	(\$207,600)	(\$162,100)

Notes:

Table 2 Water Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Drill Deep Well #10	Deep Well Fund							750,000				750,000
Cation Exchange Treatment Plant for Potable Well 10	Tap-On Fees										3,000,000	3,000,000
Cation Exchange Treatment Plant for Potable Wells 3,6,7,11	Tap-On Fees										3,000,000	3,000,000
Utility Extensions I-80 North	IEPA Loan			1,548,058								1,548,058
Routine Capital Replacement (meters, hydrants, etc)	Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Actual CIP Costs		304,500	185,000	1,736,758	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	10,407,164

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
IEPA Loan	0	0	1,548,058	0	0	0	0	0	0	0	1,548,058
Equipment Replacement Fund	0	0	0	0	0	0	0	0	0	0	0
Cash	304,500	185,000	188,700	192,474	196,323	200,250	204,255	208,340	212,507	216,757	2,109,106
Tap-On Fees	0	0	0	0	0	0	0	0	0	6,000,000	6,000,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
Water Tower Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	0	0	0
Deep Well Fund	0	0	0	0	0	0	750,000	0	0	0	750,000
Total	304,500	185,000	1,736,758	192,474	196,323	200,250	954,255	208,340	212,507	6,216,757	10,407,164

Notes:

1. I80 extension costs are taken from the cost analysis for the project provided by Village staff as of March, 2021. Costs are the Village portion only and prorated between water and sewer.
2. Routine capital expenses include a larger than normal meter replacement project in 2022 with more routine levels planned in 2023 and beyond. Capital expenses are inflated by 2.0% annually.

Table 3 Capital Improvements Financing Plan *Village of Minooka, IL*

		2024
		IEPA Loan
CIP Projects¹		1,548,058
Less Other Available Revenues		
Cash Available		-
ERF Funds		-
Net Borrowing Requirement		1,548,058
Debt Service Reserve		
Debt Service Reserve Funds On Hand		-
New Debt Service Reserve Requirement		-
Subtotal Reserve Fund Requirement		0
Estimated Issuance Expenses		0
TOTAL TO BE FINANCED		1,548,058
Estimated Interest Earnings	0.00%	0
Assumed spend down (months)	0.00	
Rounding		0
NET BOND SIZE		1,548,058

Notes:

1) Source of Project Totals taken from the Water Utility CIP table.

Table 4
Water Utility Projected Debt Service Payments (PROPOSED)

Village of Minooka, IL

NAME		IEPA Loan, 2022 Water Portion of I80 Extension		PROPOSED Water Utility Debt Service Summary					
AMT		\$1,548,058							
DATED		1/1/2022							
RATE		2.10%							
Year	Principal	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year	
2022				0	0	0	1,548,058	2022	
2023				0	0	0	1,548,058	2023	
2024	63,081	32,509	95,590	63,081	32,509	95,590	1,484,977	2024	
2025	64,406	31,185	95,590	64,406	31,185	95,590	1,420,571	2025	
2026	65,758	29,832	95,590	65,758	29,832	95,590	1,354,813	2026	
2027	67,139	28,451	95,590	67,139	28,451	95,590	1,287,674	2027	
2028	68,549	27,041	95,590	68,549	27,041	95,590	1,219,125	2028	
2029	69,989	25,602	95,590	69,989	25,602	95,590	1,149,136	2029	
2030	71,458	24,132	95,590	71,458	24,132	95,590	1,077,678	2030	
2031	72,959	22,631	95,590	72,959	22,631	95,590	1,004,719	2031	
2032	74,491	21,099	95,590	74,491	21,099	95,590	930,228	2032	
2033	76,055	19,535	95,590	76,055	19,535	95,590	854,172	2033	
2034	77,653	17,938	95,590	77,653	17,938	95,590	776,520	2034	
2035	79,283	16,307	95,590	79,283	16,307	95,590	697,236	2035	
2036	80,948	14,642	95,590	80,948	14,642	95,590	616,288	2036	
2037	82,648	12,942	95,590	82,648	12,942	95,590	533,640	2037	
2038	84,384	11,206	95,590	84,384	11,206	95,590	449,256	2038	
2039	86,156	9,434	95,590	86,156	9,434	95,590	363,100	2039	
2040	87,965	7,625	95,590	87,965	7,625	95,590	275,135	2040	
2041	89,812	5,778	95,590	89,812	5,778	95,590	185,323	2041	
2042	91,698	3,892	95,590	91,698	3,892	95,590	93,624	2042	
2043	93,624	1,966	95,590	93,624	1,966	95,590	0	2043	
2044				0	0	0	0	2044	
2045				0	0	0	0	2045	
2046				0	0	0	0	2046	
2047				0	0	0	0	2047	
2048				0	0	0	0	2048	
2049				0	0	0	0	2049	
2050				0	0	0	0	2050	
TOTALS	1,548,058	363,747	1,911,805	1,548,058	363,747	1,911,805		TOTALS	

Notes:

1) Rate assumes the current IEPA loan rate of 1.35% plus 75-basis points for market movement.

Table 5 Water Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget	Projected								
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$2,423,321	\$2,496,021	\$2,570,901	\$2,648,028	\$2,727,469	\$2,809,293	\$2,893,572	\$2,980,379	\$3,069,791	\$3,161,884
Percent Increase to User Rates	99.17%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	99.17%	105.14%	111.30%	117.64%	124.17%	130.89%	137.82%	144.95%	152.30%	159.87%
Dollar Amount Increase to Revenues	\$2,423,321	\$72,700	\$74,881	\$77,127	\$79,441	\$81,824	\$84,279	\$86,807	\$89,411	\$92,094
Other Revenues										
Interest Income	\$0	\$0	\$8,539	\$12,976	\$17,676	\$22,639	\$27,850	\$33,345	\$81,480	\$97,274
Other Income	\$77,700	\$78,477	\$79,262	\$80,054	\$80,855	\$81,663	\$82,480	\$83,305	\$84,971	\$86,670
Total Other Revenues	\$77,700	\$78,477	\$87,800	\$93,030	\$98,531	\$104,303	\$110,330	\$116,650	\$166,451	\$183,945
Total Revenues	\$2,501,021	\$2,574,498	\$2,658,702	\$2,741,058	\$2,826,000	\$2,913,596	\$3,003,902	\$3,097,029	\$3,236,242	\$3,345,829
Expenses										
Operating and Maintenance	\$939,200	\$967,376	\$996,397	\$1,026,289	\$1,057,078	\$1,088,790	\$1,121,454	\$1,155,098	\$1,189,750	\$1,225,443
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$1,561,821	\$1,607,122	\$1,662,304	\$1,714,769	\$1,768,923	\$1,824,806	\$1,882,448	\$1,941,932	\$2,046,492	\$2,120,386
Debt Service										
Existing Debt P&I ¹	\$328,550	\$325,150	\$331,600	\$327,600	\$325,400	\$327,800	\$324,600	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590	\$95,590
Total Debt Service	\$328,550	\$325,150	\$427,190	\$423,190	\$420,990	\$423,390	\$420,190	\$95,590	\$95,590	\$95,590
Transfer In (Out)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)	(\$159,000)
Capital Improvements										
Deep Well Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000	\$0	\$0	\$0
Tap On Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000,000
Bond Proceeds	\$0	\$0	\$1,548,058	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Annual Cash Flow	\$769,771	\$937,972	\$887,414	\$940,105	\$992,609	\$1,042,166	\$1,099,003	\$1,479,001	\$1,579,394	\$1,649,039

Table 6 Projected Test Year 2022 Water Usage

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Village Customers</u>				
Apartment	5,093	5,032	5,062	5,062
Commercial	45,456	45,320	45,375	45,375
Governmental	278,343	19,701	19,700	19,700
Industrial	37,328	37,781	37,500	37,500
Non-Profit	807	677	700	700
Rental	24,633	18,958	21,796	21,796
Residential	195,647	194,740	195,194	195,194
Subtotal Inside Customers	587,307	322,209	325,327	325,327
<u>Total For Rate Calcs</u>				
Usage				325,327

Notes:

1. Source: Village of Minooka Billing and Usage Summary (FY 2019 and 2020)

Table 7 Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING REVENUES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
	Revenue - Water					
02-10-0-412	New Water Meters	24,828	11,000	8,000	8,700	8,700
02-10-0-420	Interest Income	28,092	28,000	6,500	2,300	2,300
02-10-0-430	Miscellaneous Receipts	55,628	40,000	20,000	40,300	40,300
02-10-0-430	Loan Proceeds	0	0	2,400,000	2,500,000	0
02-10-0-438	Finance Charge Income	170	100	500	200	200
02-10-0-450	Water Billing	1,148,996	1,200,000	1,350,000	1,360,000	1,360,000
02-10-0-451	Water Billing Penalty	21,995	28,000	16,000	24,000	24,000
02-10-0-455	Inspection Fee	24,300	8,000	7,000	2,200	2,200
	TOTAL OPERATING REVENUES	\$ 1,304,009	\$ 1,315,100	\$ 3,808,000	3,937,700	1,437,700

Comparative Operating Income Statement

Village of Minooka, IL

ACCT		Proposed Budget				TEST YEAR
NUMBER	OPERATING EXPENSES	2019	2020	2021	2022	2022
Personal Services						
02-10-1-500	Salary	\$ 264,107	289,900	288,000	\$ 282,700	282,700
02-10-1-501	Overtime	9,306	10,000	10,000	10,000	10,000
02-10-1-502	Employee Group Insurance	39,157	25,500	30,000	26,100	26,100
02-10-1-700	Social Security	16,444	18,200	18,200	18,400	18,400
02-10-1-701	Medicare	3,843	4,300	4,300	4,300	4,300
02-10-1-702	IMRF	17,883	14,500	19,300	20,700	20,700
Contractual Services						
02-10-2-511	Data Processing Serv/Training	\$ 15,639	14,900	18,100	\$ 19,200	19,200
02-10-2-512	Engineering Services	3,246	29,000	55,400	108,200	55,400
02-10-2-513	Insurance/Commercial	27,947	27,500	29,200	34,500	34,500
02-10-2-517	Printing and Publishing	2,589	2,400	3,000	2,200	2,200
02-10-2-518	Association Dues	83	0	900	800	800
02-10-2-519	Telephone/Communication	8,615	8,800	8,500	8,200	8,200
02-10-2-520	Electricity	131,627	133,500	169,500	156,600	156,600
02-10-2-521	Heating	2,869	3,300	3,300	3,300	3,300
02-10-2-523	Janitorial Services	2,459	3,100	3,500	3,400	3,400
02-10-2-524	Unemployment Insurance	599	800	700	500	500
02-10-2-526	Public Relations	0	9,500	2,400	1,900	1,900
02-10-2-527	Repair/Maint Office Equip	370	400	1,700	1,700	1,700
02-10-2-529	Professional Services	0	0	1,100	1,100	1,100
02-10-2-561	Repair/Maint Vehicles	3,900	4,000	4,000	4,000	4,000
02-10-2-582	Equipment Rental	0	2,500	2,000	2,000	2,000
02-10-2-583	Seminars & Training	8,374	10,800	10,000	10,500	10,500
02-10-2-585	Uniform Services	1,969	2,100	2,100	3,700	3,700
02-10-2-589	J.U.L.I.E. Locates	16,598	19,200	19,200	19,200	19,200
02-10-2-625	Landscape Services	7,422	6,600	9,000	6,600	6,600
02-10-2-650	Repairs/Maint of Meters	8,310	10,500	10,500	80,500	10,500
02-10-2-651	Repair/Maint Water Tank	4,800	5,500	10,500	17,500	17,500
02-10-2-652	Repair/Maint Waterworks System	19,237	55,800	55,800	55,800	55,800
02-10-2-654	Laboratory Service	11,457	9,800	9,800	9,800	9,800
02-10-2-660	Repairs & Maintenance Wells	15,821	15,000	15,000	15,000	15,000
02-10-2-665	Repairs & Maintenance Bldgs & Grnds	4,846	9,200	13,000	13,000	13,000

Comparative Operating Income Statement

Village of Minooka, IL

ACCT NUMBER	OPERATING EXPENSES	2019	2020	2021	Proposed Budget 2022	TEST YEAR 2022
Commodities						
02-10-3-530	Office Supplies & Postage	\$ 4,881	\$ 5,300	\$ 6,300	\$ 5,800	5,800
02-10-3-532	Chemical Additives	70,426	85,000	85,000	85,000	85,000
02-10-3-533	Laboratory Supplies	1,597	2,500	6,000	10,500	10,500
02-10-3-534	Janitorial Supplies	2,186	1,800	1,800	1,800	1,800
02-10-3-590	Gas, Oil, Etc....	4,976	9,000	8,000	9,000	9,000
02-10-3-597	Safety Equipment & Misc. Tools	1,930	3,000	3,000	3,000	3,000
02-10-3-600	Trees, Gravel, Concrete, Asphalt	2,549	3,500	3,500	3,500	3,500
Other Expenses						
02-10-4-547	Bad Debt Expenses	\$ 0	\$ 2,000	\$ 2,000	\$ 2,000	2,000
02-10-4-541	Miscellaneous Expenses	380	1,500	700	0	0
Capital Outlay						
02-10-5-550	Purchase of Equipment	\$ 16,215	\$ 13,300	\$ 9,500	\$ 70,000	25,000
02-10-5-551	Fire Hydrants	372	19,500	9,800	3,300	3,300
02-10-5-670	Data Processing Equipment	3,509	10,200	0	0	0
02-10-5-671	Meter Replacement	140,637	140,700	154,300	231,200	145,000
02-10-5-672	New Water Meters	13,694	13,700	0	0	0
Transfers						
02-10-4-820	Monthly Trans to Bond & Ins	\$ 325,200	\$ 330,100	\$ 327,200	\$ 329,100	329,100
02-10-4-542	Transfer to Other Funds	125,000	135,000	125,000	159,000	159,000
	Monthly Trans to New IEPA Loan	0	0	0	0	0
	Capital Infrastructure Reserves	0	0	0	100,000	822,721
TOTAL EXPENSES		\$ 1,363,069	\$ 1,522,700	\$ 1,570,100	\$ 1,954,600	2,423,321
NET OPERATING INCOME		<u>\$ (59,060)</u>	<u>\$ (207,600)</u>	<u>\$ 2,237,900</u>	<u>\$ 1,983,100</u>	<u>(985,621)</u>

Table 8 Volumetric Rate Calculation

Village of Minooka, IL

Does Class have its own Volumetric Rate?

Residential	Multi-Family	Non-Residential	Industrial	Public Authority	Irrigation
No	No	No	No	No	No

Consumption

	Apartment	Commercial	Governmental	Industrial	Non-Profit	Rental	Residential
Block 1	5,062	45,375	19,700	37,500	700	21,796	195,194
Block 2	0	0	0	0	0	0	0
Block 3	0	0	0	0	0	0	0
Block 4	0	0	0	0	0	0	0
Block 5	0	0	0	0	0	0	0

Volume Rates

First	Current Rates	New Rates	% +/-
Mgal	\$3.74	\$7.45	99%

Total Revenue

	Block 1	Block 2	Block 3	Block 4	Block 5	Total
Apartment	\$ 37,706	\$ -	\$ -	\$ -	\$ -	\$ 37,706
Commercial	\$ 337,993	\$ -	\$ -	\$ -	\$ -	\$ 337,993
Governmental	\$ 146,743	\$ -	\$ -	\$ -	\$ -	\$ 146,743
Industrial	\$ 279,333	\$ -	\$ -	\$ -	\$ -	\$ 279,333
Non-Profit	\$ 5,214	\$ -	\$ -	\$ -	\$ -	\$ 5,214
Rental	\$ 162,356	\$ -	\$ -	\$ -	\$ -	\$ 162,356
Residential	\$ 1,453,976	\$ -	\$ -	\$ -	\$ -	\$ 1,453,976

Table 9 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$14.96	\$29.80	\$14.84	99.2%
Residential	Avg. User	8.00	\$29.92	\$59.59	\$29.67	99.2%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.

Table 10 Sewer Utility Cash Flow Analysis - Historical 2019-2021

Village of Minooka, IL

	Actual		Budget
	2019	2020	2021
Revenues			
Total Revenues from User Rates	\$1,583,216	\$1,650,000	\$1,718,000
Percent Increase to User Rates			
Cumulative Percent Rate Increase			
Dollar Amount Increase to Revenues			
Other Revenues			
Interest Income	\$0	\$0	\$0
Other Income	\$33,262	\$40,000	\$35,000
Total Other Revenues	\$33,262	\$40,000	\$35,000
Total Revenues	\$1,616,478	\$1,690,000	\$1,753,000
Expenses			
Operating and Maintenance	\$1,037,323	\$2,081,300	\$4,063,800
PILOT Payment	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$579,155	-\$391,300	-\$2,310,800
Debt Service			
Existing Debt P&I ¹	\$0	\$0	\$0
New (2022-2031) Debt Service P&I			
Total Debt Service	\$0	\$0	\$0
Transfer In (Out)	(\$100,000)	(\$110,000)	(\$100,000)
Capital Improvements	\$20,435	\$19,000	\$9,500
Bonds Issued/Grants/Aid	\$0	\$0	\$0
Reconcile to Audit	\$0	\$0	\$0
Net Annual Cash Flow	\$458,720	(\$520,300)	(\$2,420,300)

Notes:

Table 11 Sewer Utility Capital Improvement Plan

Village of Minooka, IL

Projects	Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
Minooka Road Sanitary Sewer	Cash							450,000				450,000
Wastewater Treatment Plant #2 Land	WWTP Land Fund									1,500,000		1,500,000
Wastewater Treatment Plant #2	Tap On Fees									13,000,000		13,000,000
Sanitary Sewer Forcemain to Plant 2	Tap On Fees										1,875,000	1,875,000
Minooka Road Regional Lift Station	Cash				450,000							450,000
Effluent Discharge Forcemain	Tap On Fees										1,500,000	1,500,000
Utility Extensions I-80 North	IEPA Loan			915,494								915,494
Routine Capital Replacement	Cash											0
WWTP Energy Efficiency Upgrades	IEPA Loan			2,417,000								2,417,000
Actual CIP Costs		0	0	3,332,494	450,000	0	0	450,000	0	14,500,000	3,375,000	22,107,494

Sources of Funding	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Totals
G.O. Debt	0	0	0	0	0	0	0	0	0	0	0
Revenue Debt	0	0	0	0	0	0	0	0	0	0	0
Grants/Aids	0	0	0	0	0	0	0	0	0	0	0
Special Assessment	0	0	0	0	0	0	0	0	0	0	0
User Fees	0	0	0	0	0	0	0	0	0	0	0
IEPA Loan	0	0	3,332,494	0	0	0	0	0	0	0	3,332,494
Tap On Fees	0	0	0	0	0	0	0	0	13,000,000	3,375,000	16,375,000
Cash	0	0	0	450,000	0	0	450,000	0	0	0	900,000
Water & Sewer Capital Fund	0	0	0	0	0	0	0	0	0	0	0
WWTP Land Fund	0	0	0	0	0	0	0	0	1,500,000	0	1,500,000
Total	0	0	3,332,494	450,000	0	0	450,000	0	14,500,000	3,375,000	22,107,494

Notes:

Table 12

Capital Improvements Financing Plan

Village of Minooka, IL

		2024
		IEPA Loan
CIP Projects¹		3,332,494
Less Other Available Revenues		
Cash Available		-
ERF Funds		-
Net Borrowing Requirement		3,332,494
Debt Service Reserve		
Debt Service Reserve Funds On Hand		-
New Debt Service Reserve Requirement		-
Subtotal Reserve Fund Requirement		0
Estimated Issuance Expenses		0
TOTAL TO BE FINANCED		3,332,494
Estimated Interest Earnings	0.00%	0
Assumed spend down (months)	0.00	
Rounding		-
NET BOND SIZE		3,332,494

Notes:

1) Source of Project Totals taken from CIP Table.

Table 13 Sewer Utility Projected Debt Service Payments (PROPOSED)

Village of Minooka, IL

NAME		IEPA Loan, 2024 I80 Extension Project (Sewer Portion)			PROPOSED Sewer Utility Debt Service Summary				
AMT DATED RATE		\$3,332,494 1/1/2024 2.10%							
Year	Principal	Est. Rate ¹	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year
2022				205,776	0	0	0	3,332,494	2022
2023				205,776	0	0	0	3,332,494	2023
2024	135,794	2.10%	69,982	205,776	135,794	69,982	205,776	3,196,700	2024
2025	138,646	2.10%	67,131	205,776	138,646	67,131	205,776	3,058,054	2025
2026	141,557	2.10%	64,219	205,776	141,557	64,219	205,776	2,916,497	2026
2027	144,530	2.10%	61,246	205,776	144,530	61,246	205,776	2,771,967	2027
2028	147,565	2.10%	58,211	205,776	147,565	58,211	205,776	2,624,402	2028
2029	150,664	2.10%	55,112	205,776	150,664	55,112	205,776	2,473,738	2029
2030	153,828	2.10%	51,948	205,776	153,828	51,948	205,776	2,319,910	2030
2031	157,058	2.10%	48,718	205,776	157,058	48,718	205,776	2,162,851	2031
2032	160,357	2.10%	45,420	205,776	160,357	45,420	205,776	2,002,495	2032
2033	163,724	2.10%	42,052	205,776	163,724	42,052	205,776	1,838,771	2033
2034	167,162	2.10%	38,614	205,776	167,162	38,614	205,776	1,671,608	2034
2035	170,673	2.10%	35,104	205,776	170,673	35,104	205,776	1,500,936	2035
2036	174,257	2.10%	31,520	205,776	174,257	31,520	205,776	1,326,679	2036
2037	177,916	2.10%	27,860	205,776	177,916	27,860	205,776	1,148,763	2037
2038	181,652	2.10%	24,124	205,776	181,652	24,124	205,776	967,110	2038
2039	185,467	2.10%	20,309	205,776	185,467	20,309	205,776	781,643	2039
2040	189,362	2.10%	16,415	205,776	189,362	16,415	205,776	592,281	2040
2041	193,339	2.10%	12,438	205,776	193,339	12,438	205,776	398,943	2041
2042	197,399	2.10%	8,378	205,776	197,399	8,378	205,776	201,544	2042
2043	201,544	2.10%	4,232	205,776	201,544	4,232	205,776	0	2043
TOTALS	3,332,494		783,035	4,527,082	3,332,494	783,035	4,115,529		TOTALS

Notes:

1) Rate assumes the current IEPA loan rate of 1.35% plus 75-basis points for market movement.

Table 14 Sewer Utility Cash Flow Analysis - Projected 2022-2031

Village of Minooka, IL

	Budget		Projected							
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Revenues										
Total Revenues from User Rates	\$2,354,885	\$2,425,531	\$2,498,297	\$2,573,246	\$2,650,443	\$2,729,957	\$2,811,855	\$2,896,211	\$2,983,097	\$3,072,590
Percent Increase to User Rates	45.01%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Cumulative Percent Rate Increase	45.01%	49.36%	53.84%	58.45%	63.21%	68.10%	73.15%	78.34%	83.69%	89.20%
Dollar Amount Increase to Revenues	\$2,354,885	\$70,647	\$72,766	\$74,949	\$77,197	\$79,513	\$81,899	\$84,356	\$86,886	\$89,493
Other Revenues										
Interest Income	\$0	\$0	\$5,398	\$7,763	\$9,107	\$11,680	\$14,363	\$16,034	\$18,944	\$21,975
Other Income	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Other Revenues	\$0	\$0	\$5,398	\$7,763	\$9,107	\$11,680	\$14,363	\$16,034	\$18,944	\$21,975
Total Revenues	\$2,354,885	\$2,425,531	\$2,503,695	\$2,581,009	\$2,659,551	\$2,741,637	\$2,826,218	\$2,912,245	\$3,002,042	\$3,094,565
Expenses										
Operating and Maintenance	\$1,127,900	\$1,161,737	\$1,196,589	\$1,232,487	\$1,269,461	\$1,307,545	\$1,346,772	\$1,387,175	\$1,428,790	\$1,471,654
PILOT Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Before Debt Service and Capital Expenditures	\$1,226,985	\$1,263,794	\$1,307,106	\$1,348,523	\$1,390,089	\$1,434,091	\$1,479,447	\$1,525,070	\$1,573,252	\$1,622,912
Debt Service										
Existing Debt P&I ¹	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
New (2022-2031) Debt Service P&I	\$0	\$0	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776
Total Debt Service	\$0	\$0	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776	\$205,776
Transfer In (Out)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)	(\$134,000)
Capital Improvements	\$42,400	\$21,200	\$3,353,694	\$471,200	\$21,200	\$21,200	\$471,200	\$21,200	\$14,521,200	\$3,396,200
Bonds Issued/Grants/Aid	\$0	\$0	\$3,332,494	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WWTP Land Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0
Tap On Fees Applied	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,000,000	\$3,375,000
Net Annual Cash Flow	\$1,050,585	\$1,108,594	\$946,130	\$537,546	\$1,029,113	\$1,073,115	\$668,470	\$1,164,094	\$1,212,275	\$1,261,935

Table 15 Projected Test Year 2022 WWTF Flows

Village of Minooka, IL

	Flow (1,000 Gal)			
	2019	2020	2021	2022
<u>Inside Customers</u>				
Apartment	5,092	5,160	5,062	5,062
Commercial	39,279	42,715	40,000	40,000
Governmental	4,176	8,209	5,000	5,000
Industrial	74	869	860	860
Non-Profit	744	674	700	700
Rental	24,425	19,434	20,000	22,000
Residential	189,626	195,385	190,000	195,000
Subtotal Inside Customers	263,417	272,448	261,622	268,622
<u>Metered Usage</u>				
Commercial	3,213	1,775	1,984	1,984
Industrial	13,522	14,032	13,800	13,800
<u>Wastewater Treatment Facility</u>				
Total Billable	280,152	288,255	277,406	284,406
Total For Rate Calcs				284,406

Notes:

Table 16
Historical Expenses and 2022 Proposed Budget for Sewer Utility

Village of Minooka, IL

Account Number	Account Description	2019 ACTUAL	2020 ACTUAL	2021 ESTIMATED	2022 BUDGET	2022 TEST YEAR
Personal Services						
02-20-1-500	Salary	281,074	300,600	319,000	279,800	279,800
02-20-1-501	Overtime	4,324	10,000	12,000	10,000	10,000
02-20-1-502	Employee Group Insurance	45,391	32,900	40,000	34,600	34,600
02-20-1-700	Social Security	17,013	19,500	20,800	18,200	18,200
02-20-1-701	Medicare	3,976	4,600	4,800	4,300	4,300
02-20-1-702	IMRF	18,376	15,000	21,800	20,400	20,400
	Subtotal	370,154	382,600	418,400	367,300	367,300
Contractual Services						
02-20-2-511	Data Processing Service	14,049	14,900	16,900	18,200	18,200
02-20-2-512	Engineering Service	120,899	118,000	318,600	185,800	185,800
02-20-2-513	Insurance/Commerical	28,315	27,700	29,800	34,400	34,400
02-20-2-517	Printing and Pulications	2,593	2,400	2,000	2,000	2,000
02-20-2-518	Association Dues/Meeting Exp	83	0	600	800	800
02-20-2-519	Telephone Communciations	7,419	6,400	11,800	11,200	11,200
02-20-2-520	Electricity	114,600	107,100	130,000	127,300	127,300
02-20-2-521	Heating	1,781	2,400	2,400	2,400	2,400
02-20-2-523	Janitorial Services	2,449	3,100	3,400	3,400	3,400
02-20-2-524	Unemployment Insurance	756	900	800	500	500
02-20-2-527	Repair/Maitne Office Equipment	383	400	1,400	900	900
02-20-529	Professional Services	0	0	2,000	1,800	1,800
02-20-2-561	Repair/Maint Vehicles	2,203	2,400	2,400	2,400	2,400
02-20-2-582	Equipment Rental	345	2,000	2,000	2,000	2,000
02-20-2-583	Semianrs Training	8,827	7,900	6,800	8,100	8,100
02-20-2-585	Uniform Service	1,952	2,100	2,100	2,400	2,400
02-20-2-589	J.U.L.I.E. locates	17,773	18,500	22,000	18,500	18,500
02-20-2-625	Landscape Service	3,775	12,000	4,800	2,000	2,000
02-20-2-650	NPDES Permit Fees	17,500	17,500	17,500	17,500	17,500
02-20-2-654	Laboratory Services	12,589	10,000	10,000	10,000	10,000
02-20-2-685	Repair/Maintance Sanitary Service	86,319	279,000	120,000	48,000	48,000
02-20-2-686	Sludge Hauling	34,540	40,000	30,000	30,000	30,000
02-20-2-687	Repairs/Maint Wastewater Plant	104,776	871,900	2,731,600	2,478,300	61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	3,172	6,700	16,000	15,000	15,000
02-20-2-690	Sewer Cleaning & Televising	3,300	32,800	44,400	44,400	44,400
	Subtotal	590,398	1,586,100	3,529,300	3,067,300	650,300
Commodities						
02-20-3-530	Office Supplies & Postage	4,885	6,000	7,000	5,700	5,700
02-20-3-532	Chemical Additives	43,510	66,400	66,400	71,000	71,000
02-20-3-533	Laboratory Supplies	6,678	7,000	7,000	7,000	7,000
02-20-3-590	Gas, Oil, Etc	11,211	11,100	11,100	11,000	11,000
02-20-3-594	Janitorial Supplies	2,425	2,500	2,500	2,500	2,500
02-20-3-595	Supplies Maint Sewer System	0	6,500	6,500	0	0
02-20-3-597	Safety Equipment & Misc Tools	1,018	3,500	6,000	3,500	3,500
	Subtotal	69,727	103,000	106,500	100,700	100,700
Other Expenses						
02-20-4-547	Bad Debt Expense	0	2,000	2,000	2,000	2,000
02-20-4-541	Miscellaneous	7,044	7,600	7,600	7,600	7,600
	Subtotal	7,044	9,600	9,600	9,600	9,600
Capital Outlay						
02-20-5-550	Purchase of Equipment	17,129	19,000	9,500	21,200	21,200
02-20-5-670	Data Processing Equipment	3,306	0	0	0	0
	Subtotal	20,435	19,000	9,500	21,200	21,200
02-20-4-546	Transfer to Other Funds	100,000	110,000	100,000	134,000	134,000
	Transfer to Monthly Debt Service Fund	0	0	0	0	205,776
	Deposit to Reserves	0	0	0	0	868,963
	Total	1,157,758	2,210,300	4,173,300	3,700,100	2,357,839

Table 17
Allocation of Costs to Function

Village of Minooka, IL

	Flow	2022 Budget	Flow
Operating & Maintenance			
<u>Acct #</u>	<u>Acct Description</u>		
Personal Services			
02-20-1-500	Salary	100%	\$0
02-20-1-501	Overtime	100%	\$279,800
02-20-1-502	Employee Group Insurance	100%	\$10,000
02-20-1-700	Social Security	100%	\$34,600
02-20-1-701	Medicare	100%	\$18,200
02-20-1-702	IMRF	100%	\$4,300
	Subtotal		\$20,400
			\$367,300
			\$367,300
Contractual Services			
02-20-2-511	Data Processing Service	100%	\$18,200
02-20-2-512	Engineering Service	100%	\$185,800
02-20-2-513	Insurance/Commerical	100%	\$34,400
02-20-2-517	Printing and Publications	100%	\$2,000
02-20-2-518	Association Dues/Meeting Exp	100%	\$800
02-20-2-519	Telephone Communciations	100%	\$11,200
02-20-2-520	Electricity	100%	\$127,300
02-20-2-521	Heating	100%	\$2,400
02-20-2-523	Janitorial Services	100%	\$3,400
02-20-2-524	Unemployment Insurance	100%	\$500
02-20-2-527	Repair/Maitne Office Equipment	100%	\$900
02-20-2-561	Repair/Maint Vehicles	100%	\$2,400
02-20-2-582	Equipment Rental	100%	\$2,000
02-20-2-583	Semianrs Training	100%	\$8,100
02-20-2-585	Uniform Service	100%	\$2,400
02-20-2-589	J.U.L.I.E. locates	100%	\$18,500
02-20-2-625	Landscape Service	100%	\$2,000
02-20-2-650	NPDES Permit Fees	100%	\$17,500
02-20-2-654	Laboratory Services	100%	\$10,000
02-20-2-685	Repair/Mainteance Sanitary Service	100%	\$48,000
02-20-2-686	Sludge Hauling	100%	\$30,000
02-20-2-687	Repairs/Maint Wastewater Plant	100%	\$61,300
02-20-2-688	Repairs/Maint Bldgs & Grnds	100%	\$15,000
02-20-2-690	Sewer Cleaning & Televising	100%	\$44,400
	Subtotal		\$650,300
			\$648,500
Commodities			
02-20-3-530	Office Supplies & Postage	100%	\$5,700
02-20-3-532	Chemical Additives	100%	\$71,000
02-20-3-533	Laboratory Supplies	100%	\$7,000
02-20-3-590	Gas, Oil, Etc	100%	\$11,000
02-20-3-594	Janitorial Supplies	100%	\$2,500
02-20-3-595	Supplies Maint Sewer System	100%	\$0
02-20-3-597	Safety Equipment & Misc Tools	100%	\$3,500
	Subtotal		\$100,700
			\$100,700
Other Expenses			
02-20-4-547	Bad Debt Expense	100%	\$2,000
02-20-4-541	Miscellaneous	100%	\$7,600
	Subtotal		\$9,600
			\$9,600
Capital Outlay			
02-20-5-550	Purchase of Equipment	100%	\$21,200
02-20-5-670	Data Processing Equipment	100%	\$0
	Subtotal		\$21,200
			\$21,200
02-20-4-546	Transfer to Other Funds	100%	\$1,208,739
			\$1,208,739
Total Net Revenue Requirements			\$2,357,839
			\$2,356,039

Table 18 Rate Computation Worksheet

Village of Minooka, IL

Calculation of Inside Customer Rates			
Volumetric Charges			
<u>Charge Type</u>	<u>Cost</u>	<u>Billable Units (1,000 Gal or lbs)</u>	<u>Rate/Unit</u>
Flow Charge per 1000 Gal	\$2,356,039	284,406	\$8.28
Total Volumetric Rate per 1000 Gal			\$8.28

Table 19 Rate Summary (Charges)

Village of Minooka, IL

	Current	COS	2022 Proposed
Domestic Sewer Customers			
Volumetric Rate per 1000 Gal	\$5.71	\$8.28	\$8.28

Table 20 Comparison of Existing and Proposed Bills

Village of Minooka, IL

Customer	Usage Level	Usage 1,000 Gal	Current Bill	Proposed Bill	Dollar Change	Percent Change
Residential	Low User	4.00	\$22.84	\$33.12	\$10.28	45.0%
Residential	Avg. User	8.00	\$45.68	\$66.24	\$20.56	45.0%

Notes:

- 1) Meter sizes chosen based on highest number of users for each class
- 2) Average user is defined as the total estimated test year flow for the class divided by the projected number of users in the class.