

WATER UTILITY



**WATER UTILITY
FUND 501**

DEPARTMENT: Public Works

DIVISION: Water Utility

PROGRAM MANAGER: Water Superintendent

PROGRAM DESCRIPTION:

The City of Brookfield Water Utility supplies, stores, treats and distributes potable drinking water to approximately 89% of City properties (88% of single-family residential, 98% of multi-family residential and 91% of commercial/industrial properties). The utility's system of accounts records all costs related to the operation and maintenance of the water utility's 22 wells, 5 towers, 6 reservoirs, 9 booster stations and the water distribution system.

SERVICES:

- Pump 1.35 billion gallons of water this past year.
- Maintain and operate 22 ground water well stations.
- Responsible for maintaining over 276 miles of water main in Brookfield.
- Repair an average of 10 water main breaks per year.
- Read meters on a quarterly basis.
- Monitor and test on a regular basis for compliance with Environmental Protection Agency (EPA) and Wisconsin Department of Natural Resources (DNR) requirements.
- Hydrant flushing semi-annually.
- Exercise at least one quarter of 7,848 water main valves per year.
- Maintain records on the water system, as well as valve repairs.
- Operate two iron filters and one radium-reducing filter.
- Treat the well water with chemical additions of chlorine and polyphosphate.

STAFFING:

Positions (FTE)	2018 Actual	2019 Actual	2020 Actual	2021 Actual	2022 Budget
Water Utility Superintendent	1.00	1.00	1.00	1.00	1.00
Water Operations Supervisor	1.00	1.00	1.00	1.00	1.00
Administrative Assistant	1.00	1.00	1.00	1.00	1.00
Water Utility Specialist II	1.00	1.00	1.00	2.00	2.00
Water Utility Specialist I	1.00	1.00	1.00	1.00	1.00
Lead Water Operator	2.00	2.00	2.00	2.00	2.00
Water Utility Operator	8.00	8.00	8.00	7.00	7.00
Seasonal Laborer/Operator	0.92	0.92	0.92	0.92	0.92
Total	15.92	15.92	15.92	15.92	15.92

Note: In addition to the above, costs equal to 4.00 FTE are allocated to the Water Utility budget for support services received from the Finance, Human Resources, Information Technology and Engineering Departments.

ACTIVITY MEASURES:

Activity	2018 Actual	2019 Actual	2020 Actual	2021 Projected	2022 Budgeted
Number of water main break repairs	18	14	10	10	10
Number of water valves exercised	1,500	2,572	2,481	2,500	2,500
Number of hydrants rebuilt	108	126	108	100	100
Number of hydrants replaced	4	5	7	4	5
Number of valves repaired/replaced ¹	4	60 / 4	76 / 4	43 / 4	50 / 5
Number of hydrants flushed	5,961	6,053	6,150	6,228	6,300
Number of meters tested and/or replaced ²	1,218	941	393	400	700
Number of customers ³	12,476	12,482	12,709	12,893	13,093
Number of standby customers	940	946	913	885	860
Number of gallons sold (in millions)	1,082	1,065	1,118	1,112	1,128
Average residential gallons sold per household (thousand)	55.20	56.83	55.60	60.03	57.92
Average residential charges per household ⁴	\$236.04	\$239.46	\$317.26	\$300.84	\$292.59

¹ Repairs in 2019 and 2020 were mostly valve extensions and valve box repairs. Repairs in 2021 reflected repairs of the actual valves.

² Routine meter replacement program was suspended in March 2020 due to COVID-19.

³ Reflects actual and projected number of customers at end of year; revenue estimates discussed in budget summary below are based on changes in average number of customers connected to the water system.

⁴ Residential charges in 2020 reflect a rate increase effective 4th quarter 2019.

OBJECTIVES ACCOMPLISHED IN 2021:

* Indicates if associated with one of the City's Comprehensive Plan short-term focus initiatives.

- Conduct a Risk and Resilience Assessment and update the Emergency Response Plan.
 - The Risk and Resilience Assessment was completed and certified with the EPA on June 29, 2021.
 - Emergency Response Plan will be updated by the end-of-the-year deadline.
- Implement recommendations of the booster station review study to be conducted in the second half of 2020.
 - The utility is moving forward with recommendation to install Variable Frequency Drives (VFDs) on all booster pumps to reduce electric costs and improve efficiency.

- The utility has also decided to relocate the control panels to above ground enclosures to reduce the need for confined space entry and increase safety and data review.
 - These projects will likely be completed in 2022.
3. Remove and replace filter media and make repairs/upgrades to the existing iron filter at the Arrowhead Well Station.
 - Work to be completed by end of 2021:
 - Iron filter evaluated and rehabbed.
 - Media replacement.
 - Install new control panel.
 - Additional upgrades may be scheduled in future years after determining the condition and expected life of the filter.
 4. Repair or replace 75 valves in the system that are known to leak or be inoperable.
 - Utility will replace less than this number of valves because the valves remaining on the repair list require more extensive repairs than can be completed in 2021.
 5. Continue development of Asset Management Plan by entering all preventive maintenance tasks into Cartegraph.
 - Achievements for 2021 include:
 - Entering all station assets into Cartegraph.
 - Drafted Preventive Maintenance tasks to be entered into Cartegraph.
 - Began tracking all maintenance labor hours per station.

OBJECTIVES TO BE ACCOMPLISHED IN 2022:

* Indicates if associated with one of the City’s Comprehensive Plan short-term focus initiatives.

1. Rehabilitate Wirth Park well and upgrade electric service and wiring at the well house.
2. Install VFDs on at least one underground booster station and relocate the control panel to an above ground enclosure.
3. Continue to develop asset management plan in Cartegraph including expanded use of iPads in the field.
4. Pilot test liquid sodium hypochlorite feed equipment at Burleigh and Pilgrim well houses for consideration at other wells.
5. Document material of construction for water services in compliance with the Lead and Copper rules.
6. Conduct an internal Water Supply System Plan update for 2022.

BUDGET SUMMARY:

- 1). The 2022 revenue budget is based upon an estimated increase of 200 new customers (180 residential, 8 multi-family, 12 commercial) and total sales of 1.128 billion gallons of water. Total water sales remain relatively flat due to continuing consumer product innovations and more mindful water use resulting in a lower average per household

usage amount. The utility plans on applying for a simplified rate case through the Public Service Commission (PSC) if it qualifies according to the benchmark standards set by the PSC. Rents from water property show an increase of \$20,993 in accordance with the lease agreements with the wireless carriers.

- 2). Salary budgets include estimated salary adjustments for non-represented staff based on the 3.0% salary adjustment factor established by the Finance Committee as part of the 2022 budget parameters and the salary ordinance expected to be adopted by the Human Resources and Public Safety Committee. Actual salary amounts for individual employees and the impact on department salary budgets depend on the position in salary grades, including the impact of step increases for eligible employees, and determination of satisfactory performance. Total water utility salaries charged to expense accounts and capital projects are expected to increase approximately \$135,771, which is 7.9% higher than 2021.
- 3). The change in the pension budget includes the impact of employer pension contribution rates from the Wisconsin Retirement System (WRS) applied to budgeted wages for eligible employees, reflecting a slight decrease in the contribution rate for general and elected employees as established by WRS. Changes in contribution rates are shared between the City and all employees.
- 4). Group insurance – health reflects a 5% change from the premium contribution charges in the 2021 budget. 2022 estimated rates have been derived based on preliminary projections from the City’s insurance consultant reflecting recent health claims experience, projection of health care cost trend, and the reserves built up in the City’s health insurance fund. Budgets also reflect any changes in plan coverage elections for staff assigned to this department.
- 5). Purchased power expense (623000) – electricity budgets have been developed using a model that considers historical consumption and current rates per WE Energies billings. The WE Energies forecasting tool utilized in prior years was not available due to billing software changes by WE Energies that rendered the forecast tool unusable.
- 6). Treatment operating expenses (642000) are projected to increase slightly from 2021 due to increased transportation costs. Costs for radium treatment remain unchanged from last year.
- 7). Transmission and distribution expenses (662000) include new charges of \$2,500 for purchasing chlorination chemicals to comply with new DNR standards. The total account budget, however, is expected to decrease approximately \$1,205.
- 8). Maintenance of distribution reservoirs (672000) is budgeted to increase by \$8,500 due to new anticipated costs for draining and cleaning the industrial tower in 2022.
- 9). Maintenance of transmission and distribution mains, services, and hydrants (673000, 675000, and 677000, respectively) are expected to decrease in 2022 due to the completion of the utility adjustments in accordance with the projects to widen North Avenue and Calhoun Road.
- 10). Office supply expenses (921000) are expected to remain relatively flat besides small increases for additional transportation expenses and \$3,105 for a new subscription for Microsoft 365.

11). The following capital purchases are proposed for funding from utility reserves in 2022:

Item	Cost
Well house/booster facility repairs	\$138,000
Electrical upgrades – wells/booster stations	20,000
Water utility vehicles/equipment	31,466
Water hydrants/valves/services	48,000
Water meters (large & small)	200,000
Total	\$437,466

CITY OF BROOKFIELD
2022 Water Utility Summary Budget

WATER UTILITY FUND - 501		2020 Actual	2021 Adopted	YTD 09/15/21	2021 Estimated	2022 Adopted	Percent Change
OPERATING REVENUES							
METERED WATER SALES	100	5,181,004	5,207,289	2,297,266	5,185,487	5,331,161	
FIRE PROTECTION	100	1,219,702	1,220,644	773,855	1,220,051	1,220,100	
OTHER INCOME	100	532,118	575,653	461,526	590,492	593,884	
TOTAL OPERATING REVENUE		6,932,824	7,003,586	3,532,647	6,996,030	7,145,145	2.0%
OPERATING EXPENSES							
SOURCE OF SUPPLY	910	-	15,000	12,125	13,337	15,000	
PUMPING	920	1,052,692	1,159,143	717,982	1,112,439	1,133,891	
WATER TREATMENT	930	413,240	460,794	226,282	418,654	480,118	
TRANSMISSION & DISTRIBUTION	940	653,287	1,434,542	561,529	1,015,742	632,257	
CUSTOMER ACCOUNTS	950	104,898	131,175	88,056	112,902	137,019	
ADMINISTRATION & GENERAL	960	888,290	910,053	663,993	977,759	974,683	
Sub-total Operations and Maintenance		3,112,407	4,110,707	2,269,967	3,650,833	3,372,968	-17.9%
DEPRECIATION/TAXES	970	3,477,850	3,583,449	1,789,815	3,718,367	3,726,412	
TOTAL OPERATING EXPENSES		6,590,257	7,694,156	4,059,782	7,369,200	7,099,380	-7.7%
NET OPERATING INCOME (LOSS)		342,567	(690,570)	(527,135)	(373,170)	45,765	-106.6%
NON- OPERATING REVENUE/EXPENSES:							
PLUS - INTEREST INCOME	100	232,673	182,000	19,359	188,803	221,000	
LESS - INTEREST EXPENSE	970	460,650	484,182	267,924	416,208	440,398	
WATER UTILITY NET INCOME (LOSS)		114,590	(992,752)	(775,700)	(600,575)	(173,633)	-82.5%
SPECIAL ASSESSMENTS/CAPITAL CONTRIBUT	501461 499500	2,039,892	1,655,000	259,028	1,331,685	2,250,000	
TOTAL NET POSITION, JANUARY 1		61,182,459	63,336,941		63,336,941	64,068,051	
TOTAL NET POSITION, DECEMBER 31		63,336,941	63,999,189		64,068,051	66,144,418	
CASH FLOW ADJUSTMENTS							
PLUS:							
DEPRECIATION		2,040,040	2,098,011		2,103,588	2,193,725	
AMORTIZATION OF EXPENSES		73,716	59,244		60,076	50,000	
ASSESSMENTS COLLECTED		1,921,621	1,660,000		1,265,000	1,570,000	
LESS:							
NON-BONDED CAPITAL OUTLAY		366,013	1,164,257		484,448	437,466	
DEBT REDUCTION		2,835,000	2,650,000		2,650,000	2,640,000	
NET CHANGE IN CASH		948,954	(989,754)		(306,359)	562,626	
RETURN ON RATE BASE COMPUTATION							
AVERAGE NET RATE BASE		23,928,228	22,907,153		25,762,325	27,992,583	
ADJUSTED NET OPERATING INCOME		342,567	(690,570)		(373,170)	45,765	
PSC OPERATING INCOME ADJUSTMENTS							
DEPRECIATION ON CONTRIBUTED CAPITAL		1,006,911	1,057,823		1,035,352	1,063,385	
WATER TOWER EXPENSE AMORTIZATION		(250,187)	(179,110)		(179,110)	(179,110)	
GASB 68 & 75 BENEFITS ADJUSTMENTS		(115,469)					
REGULATORY AMORTIZATION - CONTR. CAP		-	(211,077)		(211,077)	(211,077)	
NET OPERATING INCOME - PSC BASIS		983,822	(22,934)		271,995	718,963	
RATE OF RETURN		4.1%	-0.1%		1.1%	2.6%	

WATER UTILITY FUND - 501				2020 Actual	2021 Adopted	YTD 09/15/21	2021 Estimated	2022 Adopted	Percent Change	
OPERATING REVENUES										
OPERATING INCOME - 100										
METERED WATER SALES										
RESIDENTIAL	501455	461100	3,645,174	3,431,886	1,611,247	3,511,719	3,520,075			
COMMERCIAL	501455	461200	1,070,454	1,292,577	467,404	1,180,998	1,303,304			
INDUSTRIAL	501455	461300	20,098	24,750	9,502	22,880	25,120			
MULTI-FAMILY	501455	461500	390,959	376,454	178,322	393,057	398,174			
PUBLIC AUTHORITY	501455	463000	54,319	81,622	30,791	76,833	84,488			
Total Metered Water Sales			5,181,004	5,207,289	2,297,266	5,185,487	5,331,161		2.4%	
FIRE PROTECTION										
PRIVATE FIRE PROTECTION	501456	462000	242,578	243,520	122,439	242,927	242,976			
PUBLIC FIRE PROTECTION	501456	462500	977,124	977,124	651,416	977,124	977,124			
Total Fire Protection			1,219,702	1,220,644	773,855	1,220,051	1,220,100		0.0%	
OTHER INCOME										
LATE CHARGES	501460	464000	22,033	41,000	19,760	48,517	40,000			
RENTS FROM WATER PROPERTY	501460	464100	407,137	434,841	405,755	434,578	455,834			
OTHER REVENUES TAXABLE/NON-TAXABLE	501460	464200/240	102,948	99,812	36,011	107,397	98,050			
Total Other Income			532,118	575,653	461,526	590,492	593,884		3.2%	
TOTAL OPERATING REVENUE			6,932,824	7,003,586	3,532,647	6,996,030	7,145,145		2.0%	
OPERATING EXPENSES										
SOURCE OF SUPPLY - 910										
MAINTENANCE EXPENSES										
MAINTENANCE OF WELLS	50191023	634000	-	15,000	12,125	13,337	15,000			
Sub-total			-	15,000	12,125	13,337	15,000		0.0%	
TOTAL SOURCE OF SUPPLY			-	15,000	12,125	13,337	15,000		0.0%	
PUMPING - 920										
OPERATING SALARIES										
OPERATIONS SUPERVISION	50192020	620100	41,450	97,530	22,292	32,419	72,908			
PUMPING LABOR	50192020	624100	95,462	124,521	50,194	79,699	115,145			
MISCELLANEOUS LABOR	50192020	626100	61,616	73,682	39,095	64,747	74,058			
Sub-total			198,528	295,733	111,581	176,865	262,111		-11.4%	
OPERATING EXPENSES										
FUEL OR POWER PURCHASED	50192021	623000	592,794	605,942	414,554	591,026	599,834			
PUMPING	50192021	624000	21,382	21,868	10,646	22,450	22,390			
MISCELLANEOUS	50192021	626000	10,429	19,791	5,186	15,000	14,073			
Sub-total			624,605	647,601	430,386	628,476	636,297		-1.7%	
MAINTENANCE SALARIES										
MAINTENANCE SUPERVISION	50192022	630100	16,212	21,282	11,700	23,071	19,701			
MAINTENANCE OF STRUCTURES - LABOR	50192022	631100	24,337	10,746	34,970	57,583	21,519			
MAINTENANCE PUMPING EQUIP. - LABOR	50192022	633100	79,741	63,031	87,894	119,405	71,513			
Sub-total			120,290	95,059	134,564	200,059	112,733		18.6%	
MAINTENANCE EXPENSES										
MAINTENANCE OF STRUCTURES	50192023	631000	16,111	25,000	13,381	14,039	25,000			
MAINTENANCE PUMPING EQUIPMENT	50192023	633000	93,158	95,750	28,070	93,000	97,750			
Sub-total			109,269	120,750	41,451	107,039	122,750		1.7%	
TOTAL PUMPING			1,052,692	1,159,143	717,982	1,112,439	1,133,891		-2.2%	

WATER UTILITY FUND - 501				2020 Actual	2021 Adopted	YTD 09/15/21	2021 Estimated	2022 Adopted	Percent Change	
WATER TREATMENT - 930										
OPERATING SALARIES										
OPERATION SUPERVISION	50193020	640100	26,652	25,266	12,474	21,489	26,842			
OPERATION LABOR	50193020	642100	72,646	74,093	44,005	70,409	80,041			
Sub-total			99,298	99,359	56,479	91,898	106,883		7.6%	
OPERATING EXPENSES										
CHEMICALS	50193021	641000	164,599	180,000	86,785	170,000	180,000			
OPERATION	50193021	642000	120,623	156,637	73,639	134,287	158,310			
MISCELLANEOUS	50193021	643000	1,368	3,250	614	1,500	3,250			
Sub-total			286,590	339,887	161,038	305,787	341,560		0.5%	
MAINTENANCE SALARIES										
MAINTENANCE SUPERVISION	50193022	650100	3,090	4,434	497	1,050	5,627			
MAINT. TREATMENT EQUIP. - LABOR	50193022	652100	15,574	9,614	6,810	11,919	17,548			
Sub-total			18,664	14,048	7,307	12,969	23,175		65.0%	
MAINTENANCE EXPENSES										
MAINTENANCE TREATMENT EQUIPMENT	50193023	652000	8,688	7,500	1,458	8,000	8,500			
Sub-total			8,688	7,500	1,458	8,000	8,500		13.3%	
TOTAL WATER TREATMENT			413,240	460,794	226,282	418,654	480,118		4.2%	
TRANSMISSION & DISTRIBUTION - 940										
OPERATING SALARIES										
OPERATION SUPERVISION	50194020	660100	14,536	9,591	4,957	9,204	14,243			
STORAGE FACILITIES - LABOR	50194020	661100	9,897	7,776	10,488	16,120	10,690			
TRANSMISSION & DISTRIBUTION - LABOR	50194020	662100	100,331	102,633	56,513	81,916	115,546			
CUSTOMER INSTALLATIONS - LABOR	50194020	664100	7,330	19,000	3,908	3,937	16,080			
MISCELLANEOUS LABOR	50194020	665100	46,238	58,763	38,457	61,413	57,795			
Sub-total			178,332	197,763	114,323	172,590	214,354		8.4%	
OPERATING EXPENSES										
STORAGE FACILITIES	50194021	661000	1,273	8,600	6,553	7,700	11,000			
TRANSMISSION & DISTRIBUTION	50194021	662000	28,159	33,845	12,880	26,550	32,640			
CUSTOMER INSTALLATIONS	50194021	664000	2,043	4,000	-	-	4,000			
MISCELLANEOUS	50194021	665000	5,823	5,440	5,125	5,440	6,500			
Sub-total			37,298	51,885	24,558	39,690	54,140		4.3%	
MAINTENANCE SALARIES										
MAINTENANCE SUPERVISION	50194022	670100	14,064	19,217	8,265	13,876	23,896			
MAINT. DISTR. RESERVOIRS - LABOR	50194022	672100	12,553	13,761	17,777	41,732	20,008			
MAINT. TRANSMISSION & DISTR. - LABOR	50194022	673100	37,940	47,435	29,854	53,144	50,692			
MAINTENANCE OF SERVICES - LABOR	50194022	675100	37,550	34,855	14,378	24,760	42,724			
MAINTENANCE OF METERS - LABOR	50194022	676100	18,052	35,216	11,100	15,000	33,033			
MAINTENANCE OF HYDRANTS - LABOR	50194022	677100	66,285	53,210	32,257	89,374	65,060			
Sub-total			186,444	203,694	113,631	237,886	235,413		15.6%	
MAINTENANCE EXPENSES										
MAINTENANCE DISTR. - RESERVOIRS	50194023	672000	87,956	12,000	18,179	17,576	20,500			
MAINT. TRANSMISSION & DISTR. MAINS	50194023	673000	97,144	518,607	172,494	384,000	57,100			
MAINTENANCE OF SERVICES	50194023	675000	19,825	222,890	21,235	35,000	11,000			
MAINTENANCE OF METERS	50194023	676000	1,954	11,000	6,935	11,000	15,250			
MAINTENANCE OF HYDRANTS	50194023	677000	44,334	216,703	90,174	118,000	24,500			
Sub-total			251,213	981,200	309,017	565,576	128,350		-86.9%	
TOTAL TRANSMISSION & DISTRIBUTION			653,287	1,434,542	561,529	1,015,742	632,257		-55.9%	

WATER UTILITY FUND - 501			2020 Actual	2021 Adopted	YTD 09/15/21	2021 Estimated	2022 Adopted	Percent Change
CUSTOMER ACCOUNTS - 950								
OPERATING SALARIES								
SUPERVISION	50195020	901100	18,577	23,946	15,732	21,783	25,974	
METER READING LABOR	50195020	902100	5,307	8,491	3,256	4,351	8,292	
CUSTOMER RECORDS - LABOR	50195020	903100	52,833	64,112	38,366	56,658	67,019	
Sub-total			76,717	96,549	57,354	82,792	101,285	4.9%
OPERATING EXPENSES								
METER READING	50195021	902000	1,345	2,386	7,931	1,440	2,160	
CUSTOMER RECORDS	50195021	903000	26,766	32,240	22,151	28,050	32,574	
UNCOLLECTABLE ACCOUNTS	50195021	904000	70	-	620	620	1,000	
Sub-total			28,181	34,626	30,702	30,110	35,734	3.2%
TOTAL CUSTOMER ACCOUNTS			104,898	131,175	88,056	112,902	137,019	4.5%
ADMINISTRATION & GENERAL - 960								
OPERATING SALARIES								
ADMINISTRATION & GENERAL SALARIES	50196020	920100	255,307	221,830	186,835	276,451	243,457	
Sub-total			255,307	221,830	186,835	276,451	243,457	9.7%
OPERATING EXPENSES								
OFFICE SUPPLIES & EXPENSES	50196021	921000	36,947	49,928	31,009	35,000	51,276	
OUTSIDE SERVICES EMPLOYED	50196021	923000	60,291	12,425	11,964	25,000	13,185	
PROPERTY INSURANCE	50196021	924000	58,824	63,350	42,233	63,350	69,482	
FICA TAX	50196021	926000	86,276	94,190	61,727	86,761	96,342	
PENSION	50196021	926100	51,288	84,643	56,481	87,097	84,078	
GROUP INSURANCE-OTHER	50196021	926200	7,360	19,805	12,224	14,399	18,777	
GROUP INSURANCE-HEALTH	50196021	926700	246,250	281,899	197,328	309,342	307,408	
REGULATORY COMMISSION	50196021	928000	-	-	-	-	8,000	
MISCELLANEOUS GENERAL	50196021	930000	11,853	7,255	7,697	7,697	6,775	
Sub-total			611,353	667,463	456,587	679,808	708,548	6.2%
MAINTENANCE SALARIES								
MAINTENANCE OF GEN PLANT - LABOR	50196022	932100	1,139	7,249	-	-	61	
Sub-total			1,139	7,249	-	-	61	-99.2%
MAINTENANCE EXPENSES								
MAINTENANCE OF GEN PLANT	50196023	932000	20,491	13,511	20,571	21,500	22,617	
Sub-total			20,491	13,511	20,571	21,500	22,617	67.4%
TOTAL ADMINISTRATION & GENERAL			888,290	910,053	663,993	977,759	974,683	7.1%

WATER UTILITY FUND - 501				2020 Actual	2021 Adopted	YTD 09/15/21	2021 Estimated	2022 Adopted	Percent Change
OTHER EXPENSES - 970									
OTHER EXPENSES									
DEPRECIATION - PLT FINANCED BY UTILITY	50197036	940000	1,033,129	1,040,188	520,088	1,068,236	1,130,340		
DEPRECIATION - PLT FINANCED BY CONTR	50197036	943000	1,006,911	1,057,823	528,912	1,035,352	1,063,385		
TAXES	50197036	941000	1,437,810	1,485,438	740,815	1,614,779	1,532,687		
Sub-total			3,477,850	3,583,449	1,789,815	3,718,367	3,726,412		4.0%
TOTAL OTHER EXPENSES			3,477,850	3,583,449	1,789,815	3,718,367	3,726,412		4.0%
TOTAL OPERATING EXPENSES			6,590,257	7,694,156	4,059,782	7,369,200	7,099,380		-7.7%
NET OPERATING INCOME			342,567	(690,570)	(527,135)	(373,170)	45,765		-106.6%
NON-OPERATING REVENUE/EXPENSES:									
OTHER INCOME - 100									
OTHER INCOME									
INTEREST INCOME ON INVESTMENTS	501460	466000	95,836	22,000	17,190	41,000	35,000		
INTEREST INCOME ON ASSESSMENTS	501460	466500	136,837	160,000	2,169	147,803	186,000		
Sub-total			232,673	182,000	19,359	188,803	221,000		21.4%
NON-OPERATING EXPENSES									
AMORTIZATION OF DEBT	50197036	944000	73,716	59,244	55,454	60,076	50,000		
AMORTIZATION OF PREMIUM ON DEBT	50197036	944500	(47,653)	(51,369)	(25,684)	(52,621)	(61,424)		
INTEREST ON DEBT TO MUNICIPALITY	50197036	945000	434,587	476,307	238,154	408,753	451,822		
Sub-total			460,650	484,182	267,924	416,208	440,398		-9.0%
WATER UTILITY NET INCOME (LOSS)			114,590	(992,752)	(775,700)	(600,575)	(173,633)		-82.5%

City of Brookfield, WI
Capital Improvement Program
 2022 thru 2026

FUNDING SOURCE SUMMARY

Source	2022	2023	2024	2025	2026	Total
2022 Water Bond proceeds	4,150,000					4,150,000
2023 Water Bond proceeds		3,600,000				3,600,000
2024 Water Bond proceeds			4,350,000			4,350,000
2025 Water Bond proceeds				3,900,000		3,900,000
2026 Water Bond proceeds					3,750,000	3,750,000
Water fund balance	437,466	416,000	428,000	440,000	362,000	2,083,466
GRAND TOTAL	4,587,466	4,016,000	4,778,000	4,340,000	4,112,000	21,833,466

City of Brookfield, WI
Capital Improvement Program
 2022 thru 2026

PROJECTS BY CATEGORY AND DEPARTMENT

Department		2022	2023	2024	2025	2026	Total
Category							
Water							
<u>Water mains as needed</u>							
Town & Country subd. Water main	WM-22-01	2,500,000					2,500,000
Columbia Gardens / Brookview subds. Water main	WM-23-01		1,750,000				1,750,000
Woodridge subd. Water main	WM-23-02		450,000				450,000
Cheviot Hills subdivision & Lucy Cir. water main	WM-24-01			850,000			850,000
Greenbrier and Indianwood subds water main	WM-24-02			1,600,000			1,600,000
Indian Heights and Elmridge subds water main	WM-25-01				1,000,000		1,000,000
Lois, Robinwood, Holly Ridge, Ridgeway water main	WM-25-02				750,000		750,000
Forest Grove subd. Water main	WM-25-03				750,000		750,000
Sherlyn subd. Water Main	WM-26-01					1,400,000	1,400,000
Mayfair Dr. and N. 128th St. Water main	WM-26-02					1,350,000	1,350,000
	Sub-Total	2,500,000	2,200,000	2,450,000	2,500,000	2,750,000	12,400,000
<u>Water mains prior to road work</u>							
Replace failing water main	WM-08-03	1,650,000	900,000	1,400,000	1,400,000	1,000,000	6,350,000
	Sub-Total	1,650,000	900,000	1,400,000	1,400,000	1,000,000	6,350,000
<u>Water Utility - other</u>							
Water Utility vehicles/equipment	WU-01-01	31,466	37,000	38,000	39,000	40,000	185,466
Water - meters	WU-02-01	200,000	210,000	220,000	230,000	245,000	1,105,000
Water - hydrants / valves / services	WU-02-02	48,000	49,000	50,000	51,000	52,000	250,000
	Sub-Total	279,466	296,000	308,000	320,000	337,000	1,540,466
<u>Water Utility - wells/supply source</u>							
Well house / booster facility repairs	WS-13-02	138,000	100,000	100,000	100,000		438,000
Electrical upgrades - wells / booster stations	WS-18-01	20,000	20,000	20,000	20,000	25,000	105,000
Radionuclide Treatment at wells	WS-21-01		500,000	500,000			1,000,000
	Sub-Total	158,000	620,000	620,000	120,000	25,000	1,543,000
	Department Total:	4,587,466	4,016,000	4,778,000	4,340,000	4,112,000	21,833,466
	GRAND TOTAL	4,587,466	4,016,000	4,778,000	4,340,000	4,112,000	21,833,466

CITY OF BROOKFIELD
Water Utility Fund
CIP Project Descriptions

<u>Project Name/Funding Source</u>	<u>Project Description</u>
Water Mains, etc.	
Town and Country subdivision (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Columbia Gardens/Brookview subdivisions (utility borrowing – assessed)	Install new water main in Golf Parkway east of Elm Grove Road and Columbia Boulevard. This will serve as a second source of supply for retail development on Bluemound Road near 124 th Street.
Woodridge subdivision (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Cheviot Hills subdivision and Lucy Circle (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Greenbrier and Indianwood subdivisions (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Indian Heights and Elmridge subdivisions (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Lois, Robinwood, Holly Ridge, Ridgeway (utility borrowing – assessed)	Install new water main in parts of Greenfield Heights, Holly Ridge, and Crest Hill subdivisions to fill in gaps in the system.
Forest Grove subdivision (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Sherlyn subdivision (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Mayfair Drive and N. 128 th Street (utility borrowing – assessed)	Install new water main in these roads to fill in gaps in the system.
Replace failing water main (utility borrowing)	Replace water main in areas where excessive break history exists. 2022 anticipates work on water main on Imperial and Cherokee Drives. Operating cost savings and/or reallocation of staff time to more productive activities is estimated at \$5,000-\$10,000 per break depending on the severity of the incident.

CITY OF BROOKFIELD
Water Utility Fund
CIP Project Descriptions

<u>Project Name/Funding Source</u>	<u>Project Description</u>
Water Utility – other and wells/supply source	
Water Utility – vehicles/equipment (utility fund balance)	2022 request includes funding for a replacement cargo van used in meter change-outs.
Water – meters (utility fund balance)	Provides funding for new meters to be installed with radio read meters. Annual budgets have been reduced following Public Service Commission approval of longer meter change-out cycles (from 10 to 20 years).
Water – hydrants/valves/services (utility fund balance)	Annual funding for hydrant replacement. Program has been modified to provide annual funding for 10 hydrants and valves, and related service replacement, to accelerate replacement of older facilities and reduce leads/lost water.
Well house facility/equipment repairs (utility fund balance)	The 2022 request includes installation of variable frequency drives for at least one underground booster station and relocation of control panels. Also includes funding for installation of remote badge access system at water utility facilities to improve security for critical utility infrastructure.
Electrical upgrades – wells/booster stations (utility fund balance)	Funding for various equipment and electrical upgrades including upgrades to SCADA and power protection at Wirth Park well. Upgrades improve safety, system operations, and incorporate current technology.
Radionuclide treatment (utility borrowing)	Provide radionuclide treatment at the following wells: Imperial (2023) and Burleigh (2024). Treatment may be required to reduce radium to meet the limit of 5pCi/L at each of these well entry points.