



City of New Brighton

Utility Rate Analysis 2020-2039

New Rates	1
Average Single Family Home Comparison	2
Water	3
Water Rate	4
Water Capital	5
Water Cash Flow	6
Water Projects.....	7
Meter Replacement	7
5 th Street Storage Tank Reservoir Painting	9
Forestdale Tower Painting	10
High Service Tower Painting	11
South Tower Painting	12
Old Highway 8 & County Road D Watermain Upgrade	13
Pavement Management	14
Street Reconstruction Water System Improvements.....	16
Sewer	18
Sewer Rate	19
Sewer Capital	20
Sewer Cash Flow	21
Sewer Projects.....	22
Lift Station 1 – Pumps and Controls.....	22
Lift Station 7 – Pumps and Controls.....	23
Lift Station 8 – Pumps and Controls.....	24
Relining Sewers	25
Onsite Generator to Lift Station 23.....	26
Street Reconstruction Sewer System Improvements	27
Stormwater	29
Stormwater Rate.....	30
Stormwater Capital	31

Stormwater Cash Flow	32
Stormwater Projects	33
Flood Mitigation.....	33
Pavement Management	35
Pond Dredging.....	37
Street Reconstruction Stormwater System Improvements.....	39
Street Lights.....	42
Street Lights Rate.....	43
Street Lights Cash Flow	44
Street Lights Projects	45
Re-Lamping Street Lights	45
Repaint Ornamental Street Lights.....	47
Community Reinvestment	49
Community Reinvestment Cash Flow	50

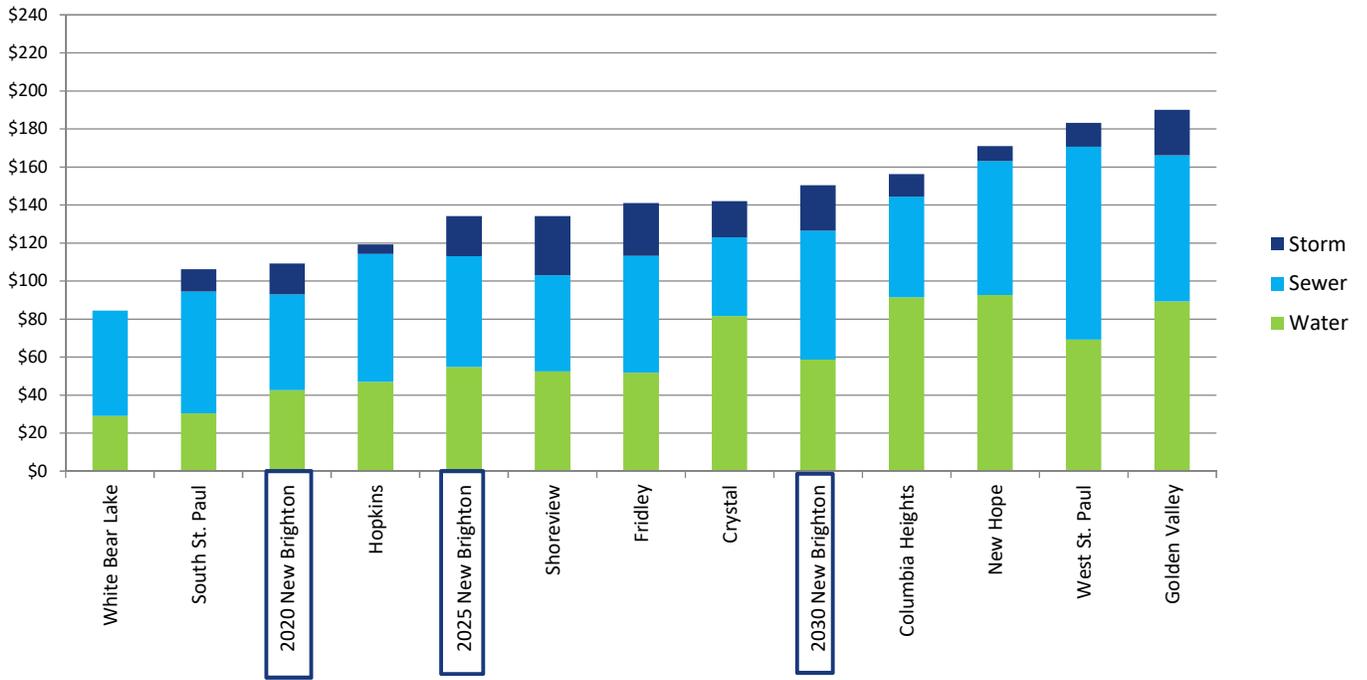
**Annual Average of a Single Family Home Per Quarter
13,000 gallons of water and 10,000 sanitary sewer**

	Gallons	2019	Current Rate		2020	Proposed Rate	Proposed Increase
Water	13	42.64	3.28	(per 1,000)	45.24	3.48	6%
Sanitary Sewer	10	50.30	5.03	(per 1,000)	51.30	5.13	2%
Stormwater		16.26			17.40		7%
Street Lights		10.36			10.72		3%
		<u>119.56</u>			<u>124.66</u>		<u>4%</u>

\$ 5.10 Quarter increase from 2018

Comparison of Average Single Family Use With Other Cities 2019 Rates

Based on 13,000 Water and 10,000 Sewer Sewer



Water

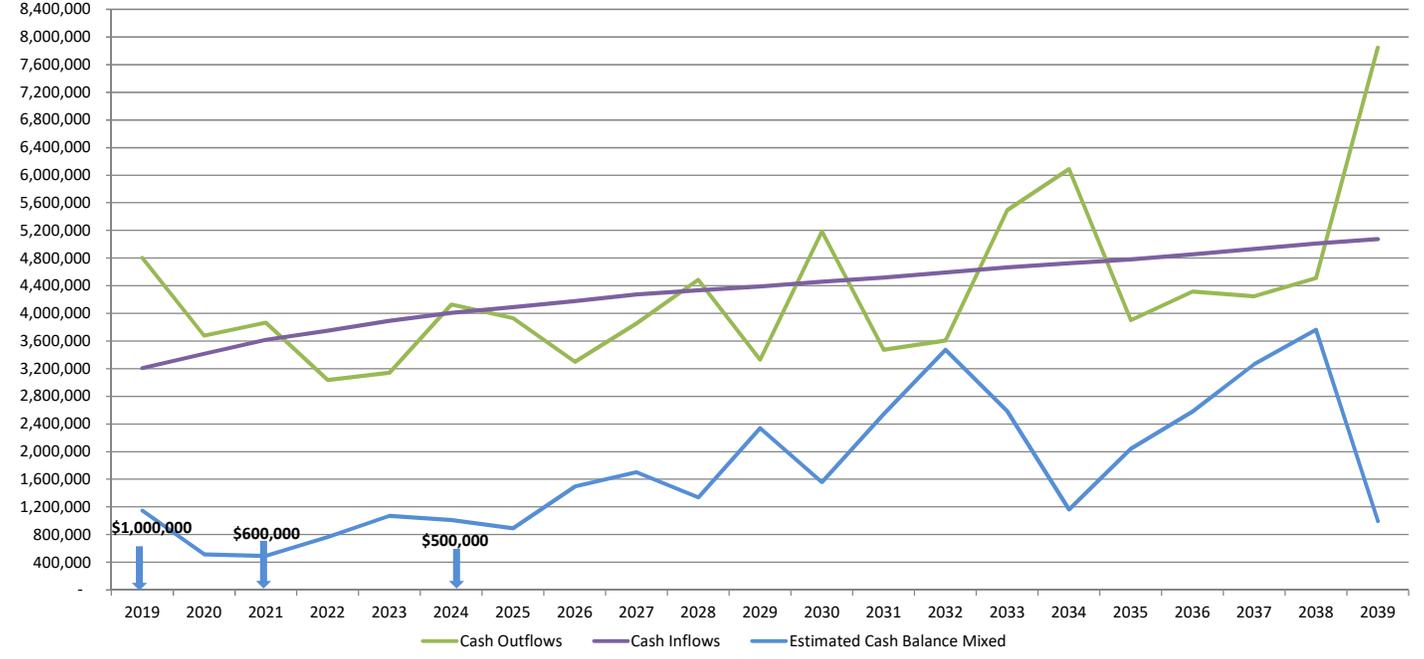


WATER IMPROVEMENTS W/residential meter replacement

Updated: 11/8/2019

Description	Projected 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039
Uses:																						
Capital Improvement Projects:																						
Water Meter Replacement Program, installation, & radios	737,660	965,235	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	3,259,100
Well #'s 11 & 14 Parking Lots	-	8,900																				
Well 8 Parking Lot															10,700							
Well 12 Parking Lot																13,900						
Well 10 Parking Lot																	32,200					
WTP 3A & 4 Backwash Reclamation Project & Radium Removal	408,674	115,248																				
WTP 3,4,5, and Well House 8 Building Improvements		250,000																				
Re-Painting Forestdale Water Tower Painting						-		600,000														
Re-Painting 5th Street Storage Reservoir	-		70,000	930,000					-													
Re-Painting High Service Water Tower																400,000						
Re-Painting South Water Tower																	2,000,000					
County Road D & 35W Watermain Upgrade		-	295,000																			
Hanson Park Watermain Replacement								220,000														
Old Highway 8 Watermain Upgrade - Highway 96 to Mounds View Border				550,000																		
Old Highway 8 Watermain Upgrade - Rice Creek to Old Hwy 8 at MV Border					625,000																	
Old Highway 8 Watermain Upgrade - Longview to Rice Creek, E of Poppyseed Dr						350,000																
County Road Watermain									200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Sub-total Water Infrastructure	1,146,334	1,339,383	370,000	1,485,000	630,000	355,000	5,000	825,000	205,000	205,000	205,000	210,000	545,000	210,000	220,700	623,900	2,242,200	210,000	210,000	210,000	210,000	3,459,100
Annual Street Reconstruction Projects:																						
2018 West Pike Lake Area Street Reconstruction	422,173	510,995																				
2019/2020 Apache Hills Street Reconstruction		1,056,900	1,056,900																			
2020 Sunny Side West Area Street Reconstruction			98,000																			
2021 Sunny Side East Area Street Reconstruction				164,000																		
2022 MSA Routes Street Reconstruction					123,000																	
2023 West Long Lake Area Street Reconstruction						433,000																
2024 Oakwood Drive & SE Hansen Area							1,698,000															
2025 Mounds Avenue & Violet Lane								607,000														
2026 19th/20th S of 7th									518,000													
2027 Area between SLR & LLR North of 14th St										1,000,000												
2028 14th to 17th E of SLR											1,549,000											
2029 Innsbruck Area												304,000										
2030 14th to 16th near E2													1,740,000									
2031 Mississippi to Rice Creek Terrace Area														273,000								
2032 Mississippi to Rice Creek Road Area															306,000							
2033 5th/Driftwood & 3rd/Heritage Area																1,698,000						
2034 Bell Pole Area																	575,000					
2035 Torch Dr. & Picke Lake East Area																		321,000				
2036 SE Streets and Campus Drive Industrial Avenue																			632,000			
2037 Wexford Heights Area																				459,000		
2038 Brookshire Area																					613,000	
2039 1st Streets NW/SW																						586,000
Total Uses	1,568,507	2,907,278	1,524,900	1,649,000	753,000	788,000	1,703,000	1,432,000	723,000	1,205,000	1,754,000	514,000	2,285,000	483,000	526,700	2,321,900	2,817,200	531,000	842,000	669,000	823,000	4,045,100

Water Fund - Projected Cash Balances



PUBLIC WORKS PROJECTS

Department: Water

Item: Water Meter Replacements

Year(s): 2020-2028, 2039

Cost:	2020-2028	\$5,000 annually
	2029-2038	\$10,000 annually
	2039	\$3,259,100

Description: Water meters and their registers often lose accuracy as they age; therefore, they must be replaced every 15 to 20 years. The new system will also include automatic meter reading technology that will save time, prevent recording errors, minimize the need to go on private property of residents, and potentially allow water line leaks to be identified earlier by the analysis of the data that is collected.

Justification:

1. Current commercial meters have exceeded life expectancy by over 10 years and should be replaced. Meters start to read lower when not working correctly.
2. New meters will be a radio read which can be read easily and would allow the city to bill these on a monthly basis. Match use to billing records, no delays makes understanding utility bills easier. Creates better cash flow for the City.
3. Can run usage reports to help identify leaks with residents, monitor water temperatures on identified accounts affected by cold temperatures.
4. With all city meters on radio reads, unaccounted water can be determined easily and monitored.
5. Currently we outsource for meter reads, new equipment could be read by City staff.
6. Should never incur a no-read fee unless meter is broken. Can read meters without access to properties.
7. Monthly billing would allow for earlier detection of meter problems to keep accurate reads.
8. Allows better feedback on consumption, helps to change habits in order to reduce and save money.



Residential Meters (as installed in Pulte Development)



Commercial Meter (type to be determined by best value procurement)

PUBLIC WORKS PROJECTS

Department: Water

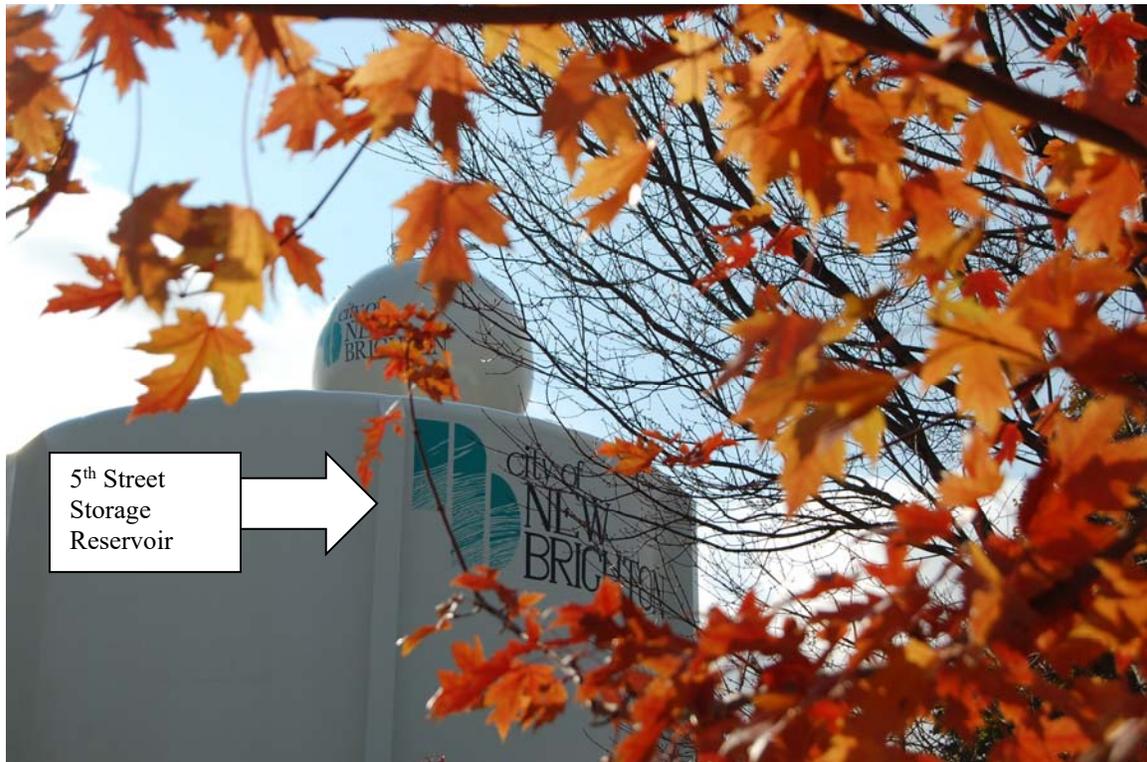
Item: Re-painting 5th Street Storage Tank Reservoir

Year(s): 2021 – Total Reconditioning

Cost: 2021 – \$930,000
2020 - \$70,000 Plans and Specifications

Description: The 1,300,000 gallon ground storage reservoir is located next to the PGAC Plant. This tower was built in 1961. The last maintenance was a complete interior and exterior blast and repainting in 2002. In 2002, This tower was painted and the coating system was changed from epoxy/urethane to an Ameron PSX 700. This change in coatings represents about a 20% increase in the coating life and a retained glossy appearance for 24 years compared to about 12 years for the epoxy/urethane.

Justification: This is scheduled tank maintenance.



PUBLIC WORKS PROJECTS

Department: Water

Item: Re-painting Forestdale Water Tower

Year(s): 2025

Cost: \$600,000

Description: The 300,000 gallon Forestdale Water Tower is located at the northwest corner of Silver Lake Road and Forestdale Road. This tower was built in 1955. The last maintenance was a complete interior and exterior blast and repainting in 2001. This tower underwent minor interior / exterior repairs and coating touch-ups in 2013. This tank will be re-inspected again in 2017. This tower will be due for a complete paint project in 2025. The coating systems of today are better quality than when this tank was repainted. It is expected this paint job will last 20 to 25 years. The inside will be coated with an epoxy coating, and the outside with a polyurethane finish.

Justification: This is scheduled tank maintenance.



PUBLIC WORKS PROJECTS

Department: Water

Item: Re-painting High Service Tower

Year(s): 2033-2038

Cost: \$400,000 TBD

Description: The 150,000 gallon High Service Water Tower is located next to the PGAC Plant. The purpose of this tower is to provide higher pressure for the areas around Wexford Heights, Seminary Estates, and other nearby streets. This tower was built in 1992 and was re-painted in 2013. The coating systems of today are better quality than when this tank was first painted. It is expected this paint job will last 20 to 25 years. When repainting this tower, an interconnect with Columbia Heights is opened and service is provided with Columbia Heights water. Prior to opening the interconnect; the two Cities must enter an agreement defining the terms of use and repayment for water used.

Justification: This is scheduled tank maintenance.



PUBLIC WORKS PROJECTS

Department: Water

Item: Re-painting South Water Tower

Year(s): 2034

Cost: \$2,000,000 TBD

Description: The 1,000,000 galloon South Water Tower is located at 660 5th Street SW was originally constructed in 1975. The South Water Tower is a hydropillar type. The interior wet surface was over coated in 1991 with the exterior surface over coated in 1996. In 2009 the entire Tower was re-painted. The coating systems of today are better quality then when this tank was first painted. It is expected the 2009 paint job will last 25 years.

Justification: This is scheduled tank maintenance.



PUBLIC WORKS PROJECTS

Department: Water

Item: County Road D Watermain Upgrade
Old Highway 8 NW Watermain Upgrade
Hansen Park Pipe
County Road Watermain Upgrades

Year(s): 2020 – Phase 1 (County Road D & 35W)
2021 – Phase 2 (from Highway 96 to Mounds View border)
2022 – Phase 3 (from Rice Creek to Old Highway 8 at Mounds View border)
2023 - Phase 4 (from Longview to Rice Creek, just east of Poppyseed Drive)
2025 – Replacement of Pipe below Hansen Park wetland area
2026-2039 Replacement of watermain within county roads.

Cost: \$295,000 – Phase 1
\$550,000 – Phase 2
\$625,000 – Phase 3
\$350,000 – Phase 4 Upsizing water with planned replacement
\$220,000 – Directional drill of water main (PVC) in Hansen
\$200,000 each year for County Road watermain starting in 2026

Description: Starting in 2019 MnDOT will begin construction of MnPASS lanes from Roseville to Lino Lakes. The City of New Brighton has an existing watermain that is located under 35W that is undersized and beneath the existing bridge. MnDOT will include a utility betterment project on behalf of New Brighton with their design-build contract.

As part of the Old Highway 8 Reconstruction project, a 12-inch watermain was constructed from I-694 and extended past the Long Lake Regional Park entrance. In 2009, 2,800 linear feet of watermain was directionally drilled along the west side of Old Highway 8 to south of Applewood Point just north of Highway 96. The remainder of the loop will be coordinated with future phase construction projects. Based on the fire flow analysis completed in 2016 it is not anticipated that Phase 4 will be necessary.

Justification: The location of the existing watermain under 35W is nearly untraceable, and is located under portions of the bridge abutments. The available fire flow for residents and businesses in the SE portion of New Brighton would benefit from upsizing this section of main.

Currently, the only watermain servicing the entire NE portion of the City is an 8-inch cast iron watermain installed in 1963. Some of the industrial businesses along the Old Highway 8 NW corridor have experienced low flow alarms when the 8-inch is disrupted. Given our current system demand from the industrial park located north of Highway 96, a new hotel at Highway 96 which opened in 2009, and the future water demand of the Northwest Quadrant area, it is strongly recommended the 8-inch pipe be upgraded to a 12-inch pipe.

PUBLIC WORKS PROJECTS

Department: Water

Item: Pavement Management – Parking Lots

Year(s)/Cost:

2025 – Well 3 & 4	\$15,200 Army
2027 – Well 15	\$11,100 Army
2032 – Well 8	\$10,700
2033 – Well 12	\$13,900
2034 – Well 10	\$32,200

Description: This item includes cost to remove and replace the parking lots and appurtenances at each well location throughout the City.

Justification: Pavement Management is included in the Comprehensive Street Plan that was adopted by the City Council in 1980 and 2008. The goal of the Plan is the following:

1. Optimize pavement service life
2. Stabilize maintenance requirements
3. Minimize financial impact on the community
4. Provide uniformity and consistency in the treatment of pavement problems
5. Improve chances of obtaining project approvals
6. Provide a schedule for correction of utility and drainage

Pavements typically do not last longer than 30 years without incurring significant maintenance expenses. As such, the replacement of parking lots is scheduled on a 30-year cycle.



Well #11 & Well #14 Parking Lots



Well #10 Parking Lot

PUBLIC WORKS PROJECTS

Department: Water

Item: Street Reconstruction Water System Improvements

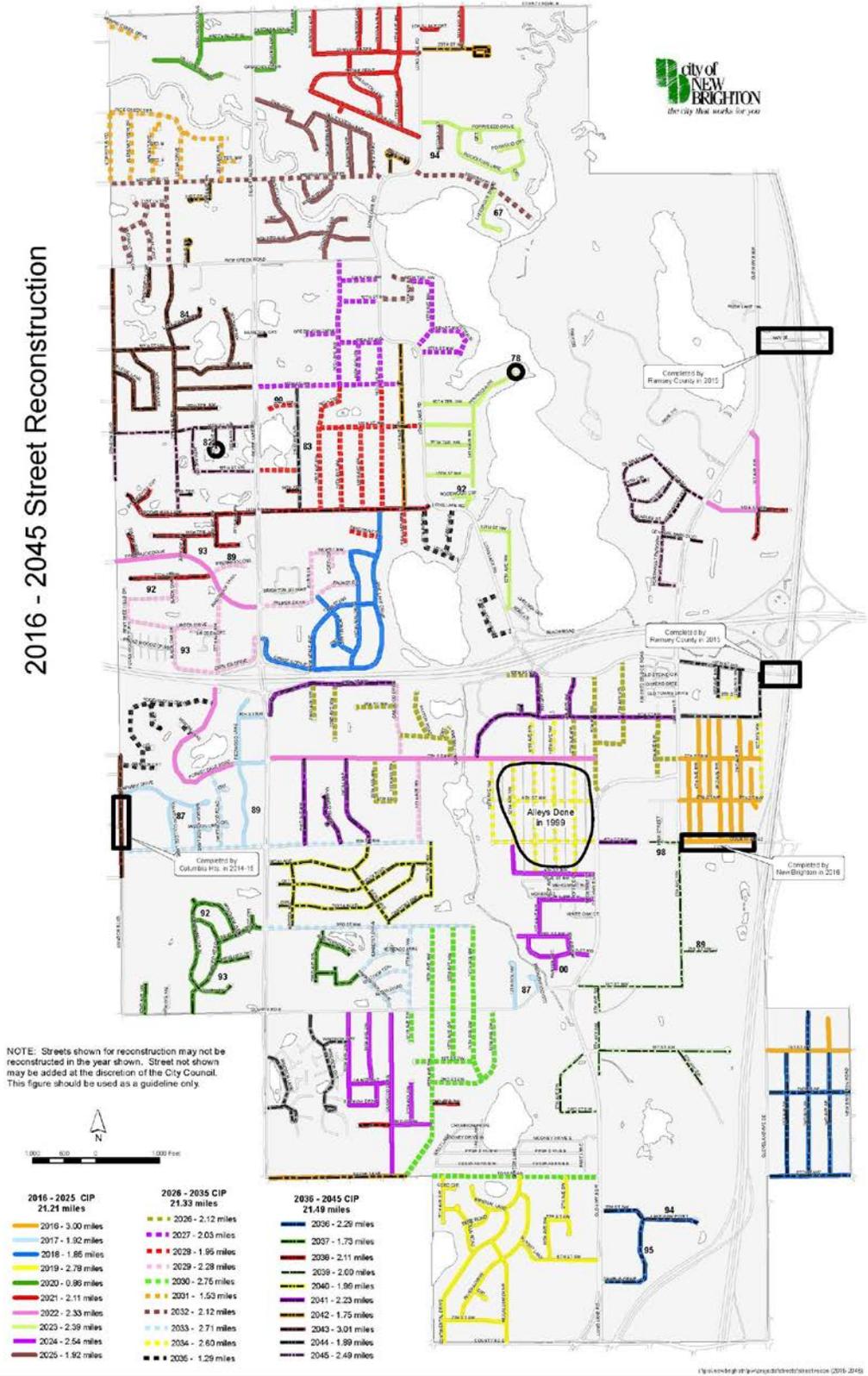
Year:	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Cost:	\$98K	\$164K	\$123K	\$433K	\$1,698K	\$607K	\$518K	\$1,000K	\$1,549K	\$304K
Year:	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Cost:	\$1,740K	\$273K	\$306K	\$1,698K	\$575K	\$321K	\$632K	\$459K	\$613K	\$586K

Description: This work involves the replacement of watermains in the annual street reconstruction areas as well as watermain replacement crossing I-35W at County Road D, and oversizing of watermain in the NE portion of New Brighton.

Justification: The existing watermains in the reconstruction areas are typically 30 to 35 years old and in need of replacement. The replacement work will be included in the reconstruction project contract and the work will be done before the street is repaved. This way the City will save money in not having to pay for street patching to restore the road at a later date.



2016 - 2045 Street Reconstruction



Sewer

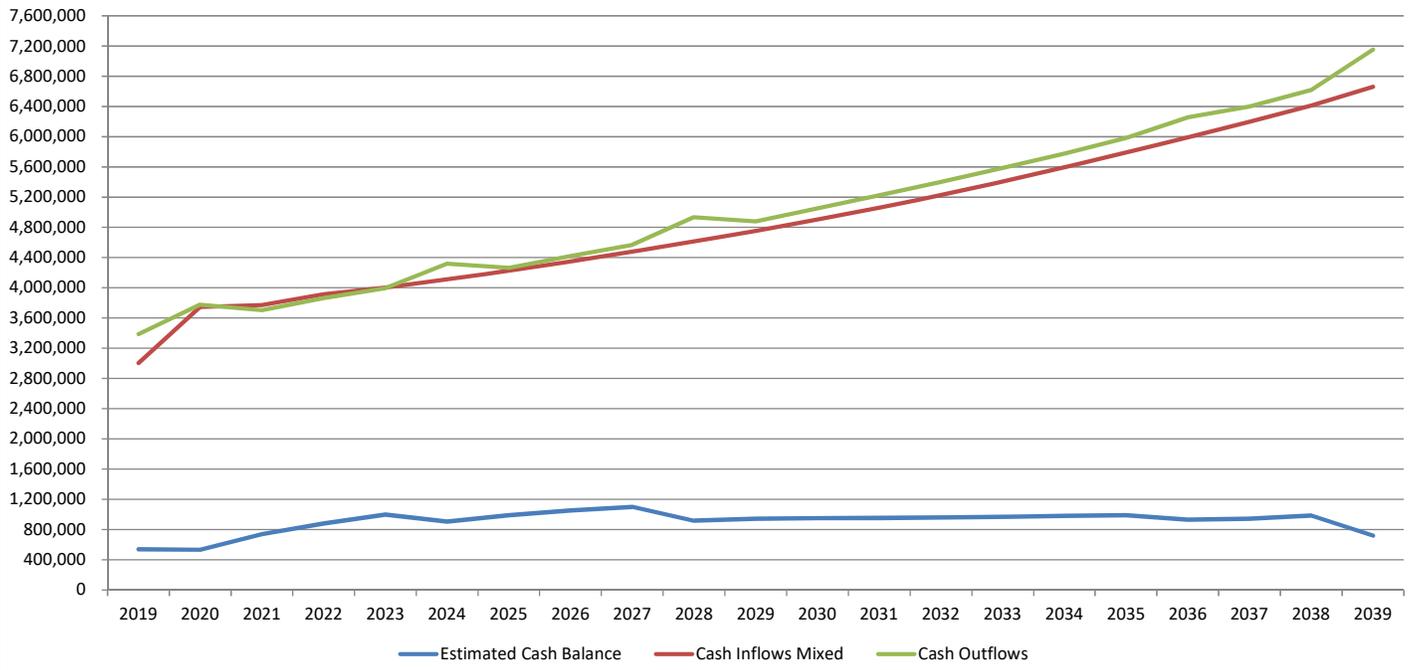


City of New Brighton
Mixed Sewer Rate Analysis

11/8/2019	590,148	590,100	590,100	Adjusted 600,000 Projected 2021	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	
Consumption Method	Actual 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039	
Input Assumptions for revenue																							
Residential Single, Two-Family, Townhomes 92%																							
Percentage of total gallons sold	266,547	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545	265,545
% Increase	45% 4.00%	4.00%	2.00%	2.00%	2.25%	2.75%	2.75%	3.00%	3.00%	3.00%	3.00%	3.25%	3.25%	3.25%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Rate	4.84	5.03	5.13	5.23	5.35	5.50	5.65	5.82	5.99	6.17	6.36	6.57	6.78	7.00	7.25	7.50	7.76	8.03	8.31	8.60	8.90	9.21	
	1,290,087	1,335,691	1,362,246	1,388,800	1,420,666	1,460,498	1,500,329	1,545,472	1,590,615	1,638,413	1,688,866	1,744,631	1,800,395	1,858,815	1,925,201	1,991,588	2,060,629	2,132,326	2,206,679	2,283,687	2,363,351	2,445,669	
Commercial/Other Apts, Condo's 8%																							
Percentage of total gallons sold	323,601	324,555	324,555	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455	334,455
% Increase	55% 4.00%	40.00%	2.00%	2.00%	2.25%	2.75%	2.75%	3.00%	3.00%	3.00%	3.00%	3.25%	3.25%	3.25%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%
Rate	4.84	6.78	6.92	7.06	7.22	7.42	7.62	7.85	8.09	8.33	8.58	8.86	9.15	9.45	9.78	10.12	10.47	10.84	11.22	11.61	12.02	12.44	
	1,566,229	2,200,483	2,245,921	2,361,252	2,414,765	2,481,656	2,548,547	2,625,472	2,705,741	2,786,010	2,869,624	2,963,271	3,060,263	3,160,600	3,270,970	3,384,685	3,501,744	3,625,492	3,752,585	3,883,023	4,020,149	4,160,620	
Revenues																							
Households on FA	11	15	15	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	
Financial Assistance Discount	(831)	(1,200)	(1,200)	(1,700)	(1,700)	(1,800)	(1,800)	(1,900)	(1,900)	(2,000)	(2,000)	(2,100)	(2,200)	(2,200)	(2,300)	(2,400)	(2,500)	(2,600)	(2,700)	(2,800)	(2,800)	(3,100)	
Operating Revenues																							
Customer Charges	2,856,316	3,536,174	3,608,166	3,750,053	3,835,431	3,942,154	4,048,876	4,170,944	4,296,356	4,424,423	4,558,490	4,707,902	4,860,658	5,019,415	5,196,171	5,376,272	5,562,373	5,757,819	5,959,264	6,166,710	6,383,500	6,606,290	
Sump Pump Fees	1,774																						
Late Charges	30,641	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	60,000	60,000	
Sewer Connection Fees	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Revenue	2,888,801	3,574,974	3,646,966	3,788,353	3,873,731	3,980,354	4,087,076	4,209,044	4,334,456	4,462,423	4,596,490	4,745,802	4,898,458	5,057,215	5,233,871	5,413,872	5,599,873	5,795,219	5,996,564	6,203,910	6,443,500	6,666,290	
Non Operating Revenue																							
Interest Income	1% 1,210	1,800	5,400	5,300	7,400	8,800	10,000	9,000	9,900	10,500	11,000	9,200	9,400	9,500	9,500	9,600	9,700	9,800	9,900	9,300	9,400	9,800	
Collected Certifications	184,912	192,300	196,100	200,000	204,500	210,100	215,900	222,400	229,100	236,000	243,100	251,000	259,200	267,600	277,000	286,700	296,700	307,100	317,800	328,900	340,400	352,300	
Purchased Certifications from Other Funds	(78,683)	(81,000)	(83,400)	(85,900)	(88,500)	(91,200)	(93,900)	(96,700)	(99,600)	(102,600)	(105,700)	(108,900)	(112,200)	(115,600)	(119,100)	(122,700)	(126,400)	(130,200)	(134,100)	(138,100)	(142,200)	(146,500)	
Grant	-	50,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
In-house engineering and admin charges	7,662	8,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000	7,100	7,200	7,300	7,400	7,500	7,700	7,900	8,100	8,300	8,500	8,700	8,900	9,100	
Total Non Operating Revenue	115,101	171,400	124,500	125,900	130,000	134,400	138,800	141,600	146,400	151,000	155,600	158,600	163,800	169,000	175,100	181,500	188,100	195,000	202,100	208,800	216,500	224,700	
Total Revenue	3,003,902	3,746,374	3,771,466	3,914,253	4,003,731	4,114,754	4,225,876	4,350,644	4,480,856	4,613,423	4,752,090	4,904,402	5,062,258	5,226,215	5,408,971	5,595,372	5,787,973	5,990,219	6,198,664	6,412,710	6,660,000	6,890,990	
Input Assumptions for Expenses																							
Growth in Personnel Services			3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Materials & Supplies cost			3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Contractual Services			3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Operating Expense																							
Personnel Services	463,503	502,300	537,000	553,100	569,700	586,800	604,400	622,500	641,200	660,400	680,200	700,600	721,600	743,200	765,500	788,500	812,200	836,600	861,700	887,600	914,200	941,600	
Materials and Supplies	8,295	25,500	26,300	27,100	27,900	28,700	29,600	30,500	31,400	32,300	33,300	34,300	35,300	36,400	37,500	38,600	39,800	41,000	42,200	43,500	44,800	46,100	
MCES	1,677,808	1,697,600	1,850,100	1,924,100	2,039,500	2,121,100	2,205,900	2,294,100	2,385,900	2,481,300	2,580,600	2,683,800	2,791,200	2,902,800	3,018,900	3,139,700	3,265,300	3,395,900	3,531,700	3,673,000	3,819,900	3,972,700	
Contractual Services	850,166	878,300	904,600	931,700	959,700	988,500	1,018,200	1,048,700	1,080,200	1,112,600	1,146,000	1,180,400	1,215,800	1,252,300	1,289,900	1,328,600	1,368,500	1,409,600	1,451,900	1,495,500	1,540,400	1,586,600	
Total Operating	2,999,772	3,103,700	3,318,000	3,436,000	3,596,800	3,725,100	3,858,100	3,995,800	4,138,700	4,286,600	4,440,100	4,599,100	4,763,900	4,934,700	5,111,800	5,295,400	5,485,800	5,683,100	5,887,500	6,099,600	6,319,300	6,547,000	
Non Operating Expenses																							
Sewer Backup Cleanup Assistance	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Capital Outlay																							
	35,712	273,798	450,000	260,000	260,000	260,000	450,000	260,000	270,000	270,000	484,000	270,000	280,000	280,000	280,000	280,000	280,000	290,000	360,000	290,000	290,000	597,000	
Total Expenses	3,035,483	3,387,498	3,778,000	3,706,000	3,866,800	3,995,100	4,318,100	4,265,800	4,418,700	4,566,600	4,934,100	4,879,100	5,053,900	5,224,700	5,401,800	5,585,400	5,775,800	5,983,100	6,257,500	6,399,600	6,619,300	7,154,000	
Beginning Cash & Investments																							
Cash Increase/(Decrease)	211,483	179,902	538,778	532,245	740,498	877,428	997,082	904,858	989,702	1,051,857	1,098,680	916,670	941,972	950,331	951,845	959,017	968,989	981,162	988,280	929,444	942,554	983,253	
Estimated Ending Cash Balance	(31,582)	358,877	(6,533)	208,253	136,931	119,654	(92,224)	84,844	62,156	46,823	(182,010)	25,302	8,358	1,515	7,171	9,972	12,173	7,119	(58,836)	13,110	40,700	(263,010)	
Estimated Ending Cash Balance	179,902	538,778	532,245	740,498	877,428	997,082	904,858	989,702	1,051,857	1,098,680	916,670	941,972	950,331	951,845	959,017	968,989	981,162	988,280	929,444	942,554	983,253	720,243	
Possible Cash Balance "Ceiling"	3,387,498	3,778,000	3,706,000	3,866,800	3,995,100	4,318,100	4,265,800	4,418,700	4,566,600	4,934,100	4,879,100	5,053,900	5,224,700	5,401,800	5,585,400	5,775,800	5,983,100	6,257,500	6,399,600	6,619,300	7,154,000	6,793,129	
Amount Over(Under) "Ceiling"	(3,207,596)	(3,239,222)	(3,173,755)	(3,126,303)	(3,117,672)	(3,321,018)	(3,360,942)	(3,428,998)	(3,514,743)	(3,835,420)	(3,962,430)	(4											

Description	Actual 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039
Uses:																						
Capital Projects																						
Future TBD Re-line Sanitary Sewer Lines	-	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Sub-total Sewer Infrastructure	-	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000
Flood Control Projects:																						
Lift Stations #2 & #3 On-Site Generator																			70,000			
Lift Station # 7 Replace Pumps and Controls	-		200,000																			307,000
Replace lift station #8, install new pumps & controls							190,000															
Install new pumps and controls for Lift Station #1											214,000											
Sub-total Flood Control	-	-	200,000	-	-	-	190,000	-	-	-	214,000	-	-	-	-	-	-	-	70,000	-	-	307,000
Annual Street Reconstruction Projects:																						
2018 West Pike Lake Area Street Reconstruction	27,124	15,198																				
2019 Apache Street Reconstruction		258,600																				
2020 Sunnyside West Area Street Reconstruction			50,000																			
2021 Sunnyside East Area Street Reconstruction				60,000																		
2022 MSA Routes					60,000																	
2023 Poppyseed Drive Street Reconstruction						30,000																
2023 West Long Lake Area Street Reconstruction						30,000																
2024 Oakwood Drive & SE Hansen Area							60,000															
2025 Mounds Avenue & Violet Lane								60,000														
2026 19th/20th S of 7th									70,000													
2027 Between SLR & LLR North of 14th										70,000												
2028 14th to 17th of SLR											70,000											
2029 Innsbruck Area												70,000										
2030 14th to 16th near E2													80,000									
2031 Mississippi to Rice Creek Terrace Area														80,000								
2032 Mississippi to Rice Creek Road															80,000							
2033 5th/Driftwood & 3rd/Heritage Area																80,000						
2034 Bell Pole Area																	80,000					
2035 Torchwood Dr & Pike Lake East Area																		90,000				
2036 SE Streets and Campus Drive Industrial Avenue																			90,000			
2037 Wexford Heights Area																				90,000		
2038 Brookshire Area																					90,000	
2039 1st Streets NW/SW																						90,000
Sub-total Street Reconstruction	35,712	273,798	50,000	60,000	60,000	60,000	60,000	60,000	60,000	70,000	70,000	70,000	70,000	80,000	80,000	80,000	80,000	80,000	90,000	90,000	90,000	90,000
Total Uses	35,712	273,798	450,000	260,000	260,000	260,000	450,000	260,000	270,000	270,000	484,000	270,000	280,000	280,000	280,000	280,000	280,000	290,000	360,000	290,000	290,000	597,000

Sanitary Sewer Fund - Projected Cash Balances



PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Install new pumps and controls for Lift Station 1

Year(s): 2028 (Lift Station 1)
2048

Cost: 2028-\$214,000
2048-\$375,000
(See Foth Report “Lift Station Needs” filed with City Project 13-9)

Description: This work includes installing new pumps and controls in this lift station. The pumps and controls are original from the early 1960’s with minor replacement of parts over the years. This project would replace pumps and controls that would be nearly 60 years old.

Justification: This lift station is small and serves a small number of properties. However, the lift station is showing signs of age. This project will install new pumps and controls that are modern, energy efficient, and the City will be able to get parts for repairs.



Lift Station 1

PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Replace Lift Station # 7, Install new pumps and controls

Year(s): 2020, 2039

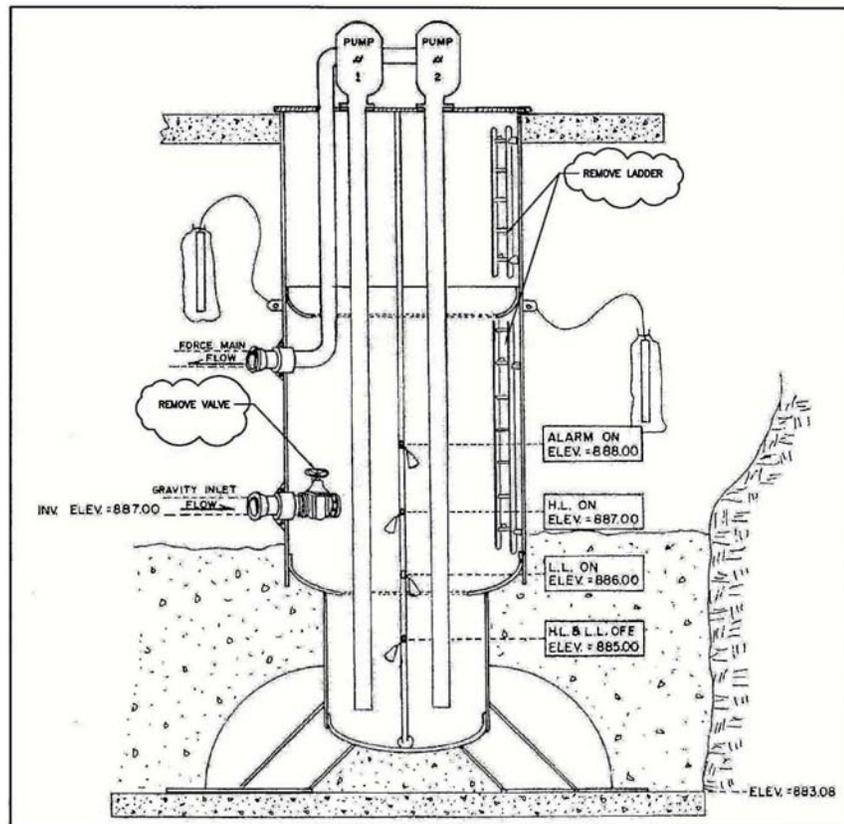
Cost: \$200,000-2020

\$361,200-2039

(See Foth report "Lift Station Needs" filed with City Project 13-9)

Description: This work includes installing new pumps and controls in this lift station. The wet well is part of the original station that was installed in 1961. The pumps and controls were replaced in 1985. This project would replace pumps and controls that would be over 30 years old.

Justification: Lift Station #7 is our largest and busiest pump station. It is in constant use, and a breakdown of our wet well or the force main cannot occur without extreme problems and probable damage to households along that line. The wet well was rehabilitated and relined in 2009 as a part of a new forcemain project from Lift Station 7 to Stowe Avenue.



TYPICAL SECTION FOR LIFT STATION
NOT TO SCALE

PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Replace Lift Station 8, Install new pumps and controls

Year(s): 2024,2044

Cost: \$190,000 2024
\$333,000 2044

(See Foth report “Lift Station Needs” filed with City Project 13-9)

Description: This work includes installing new pumps and controls and total replacement of this lift station. The pumps and controls are original from the early 1960’s with minor replacement of parts over the years. This project would replace pumps and controls that would be over 60 years old.

Justification: This lift station is small and serves a small number of properties. However, the lift station is showing signs of age. This project will install new pumps and controls that are modern, energy efficient, and the City will be able to get parts for repairs.



Lift Station 8

PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Re-Line Sanitary Sewer Lines

Year: 2020 - 2039

Cost: \$200,000 each year

Description: This project is a proposed annual lining of certain problem sewers. Problem sewer areas are areas that have roots in the line, sags, and offset joints. The Public Works Department uses video cameras to look inside sewer lines for damaged pipes that need replacing. Previously, the City had to excavate the damaged portion of the sewer to make repairs. We can now contract for sewer lining repair process that is less disruptive to traffic.

A heat-sensitive reconstruction tube is custom engineered and manufactured to fit the damaged pipe. The flexible resin tube is lowered into a manhole and then filled with water. The weight of the water pushes the tube into the damaged pipe, and the tube becomes the new interior surface of the pipe. A boiling process causes the resin tube to cure, making the pipe hard and structurally sound. The whole process normally requires no digging or disruption, and this cost-effective process allows the City to repair more sewer lines with less disruption than if using the excavation method.

Justification: This project is necessary in order to prevent sewer back-ups. When viewing our annually televised sewer tapes, we find numerous offset joints, sags, roots in the main and service wyes. Also, infiltration was evident in the main lines.



PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Provide On-site generator to Lift Station 23

Year(s): 2036

Cost: \$70,000

Description: This work includes providing a new stationary generator onsite. The project would also include engineering, installation, a transfer switch and testing.

Justification: These previous lift stations were small and served a small number of properties. With the new station a larger capacity wet well was installed at a greater depth than the previous stations. With these improvements, it is likely that any potential sewer back-up would be limited. However, with a stationary generator the risk would be eliminated.



Lift Station 2



Lift Station 3

PUBLIC WORKS PROJECTS

Department: Sanitary Sewer

Item: Street Reconstruction Sewer Improvements

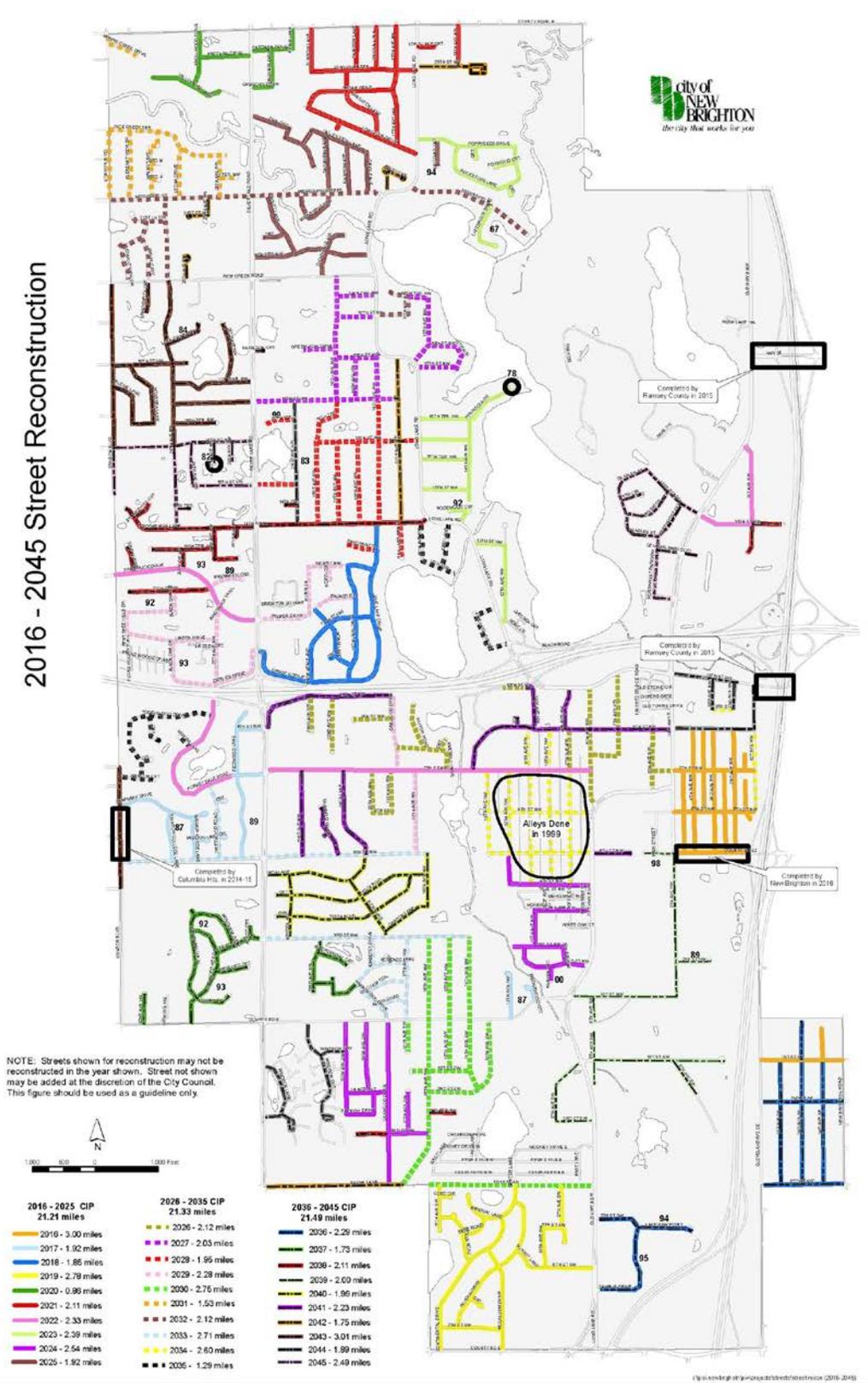
Year:	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Cost:	\$50K	\$60K	\$60K	\$60K	\$60K	\$60K	\$70K	\$70K	\$70K	\$70K
Year:	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Cost:	\$80K	\$80K	\$80K	\$80K	\$80K	\$90K	\$90K	\$90K	\$90K	\$90K

Description: The repair or replacement of existing sanitary sewer mains in the street reconstruction areas. This work includes the excavation and repair of sewer mains that cannot be repaired with out digging up the street.

Justification: Prior to street reconstruction all sanitary sewer mains in the street reconstruction project area are televised and repairs are identified. The repair work is included in the reconstruction project contract and the work is done before the street is repaved. This method saves money in respect to having not to pay for street patching to restore the road at a later time.

Repairing problem sanitary sewers before they cause back-ups saves the City and residents a lot of grief and money.

2016 - 2045 Street Reconstruction



Stormwater



City of New Brighton - Townhome Changes
Storm Water

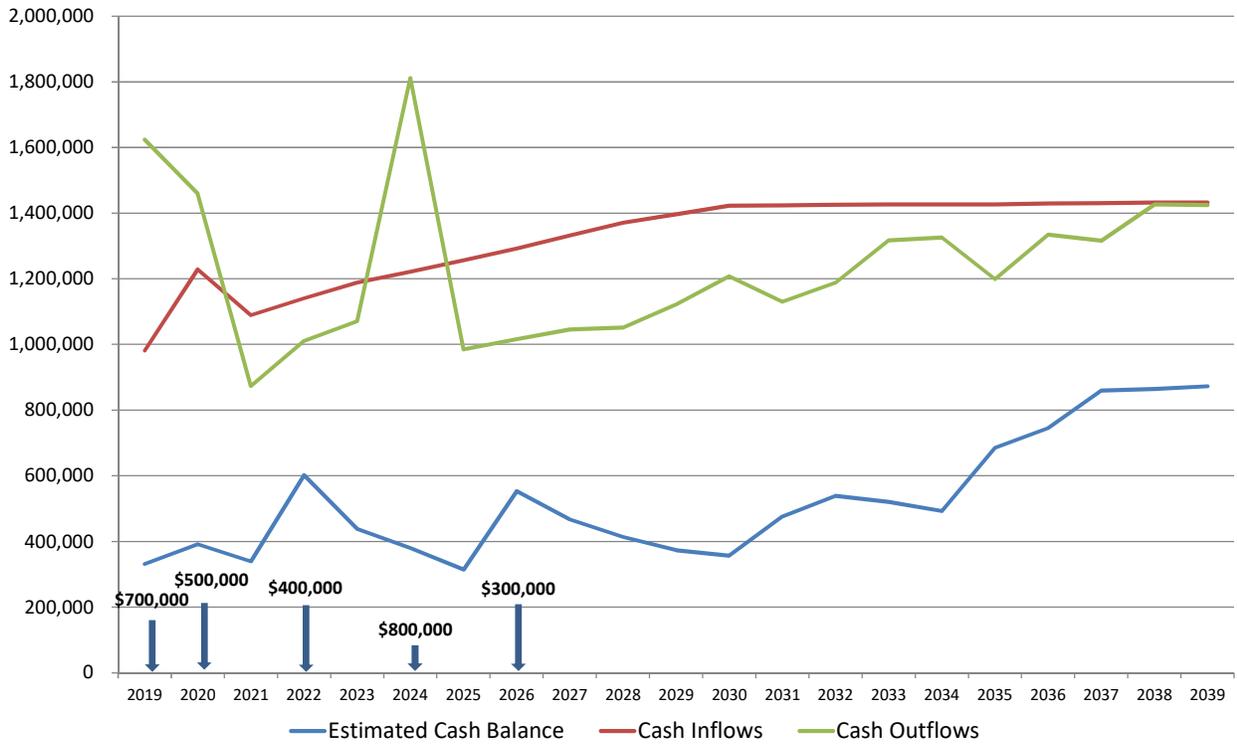
11/8/2019	Actual 2018	Projected 2019	Projected 2020	Adjusted Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039	
Input Assumptions for revenue																							
% Increase	4.00%	7.00%	7.00%	5.00%	5.00%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%	2.00%	2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Rates:																							
Single Family Per Lot/Townhome Per Unit	15.20	16.26	17.40	18.27	19.18	19.95	20.55	21.17	21.81	22.46	23.13	23.59	24.06	24.06	24.06	24.06	24.06	24.06	24.06	24.06	24.06	24.06	
Per Acre:																							
Park, Cemetery, Golf	4.17	4.46	4.77	5.01	5.26	5.47	5.63	5.8	5.97	6.15	6.33	6.46	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	6.59	
School	45.36	48.54	51.94	54.54	57.27	59.56	61.35	63.19	65.09	67.04	69.05	70.43	71.84	71.84	71.84	71.84	71.84	71.84	71.84	71.84	71.84	71.84	
Mobile Home Park	61.69	66.01	70.63	74.16	77.87	80.98	83.41	85.91	88.49	91.14	93.87	95.75	97.67	97.67	97.67	97.67	97.67	97.67	97.67	97.67	97.67	97.67	
Church	84.52	90.44	96.77	101.61	106.69	110.96	114.29	117.72	121.25	124.89	128.64	131.21	133.83	133.83	133.83	133.83	133.83	133.83	133.83	133.83	133.83	133.83	
Apt, Condo, Sr. Housing	100.71	107.76	115.3	121.07	127.12	132.2	136.17	140.26	144.47	148.8	153.26	156.33	159.46	159.46	159.46	159.46	159.46	159.46	159.46	159.46	159.46	159.46	
Comm/Indust/Warehouse	188.76	201.97	216.11	226.92	238.27	247.8	255.23	262.89	270.78	278.9	287.27	293.02	298.88	298.88	298.88	298.88	298.88	298.88	298.88	298.88	298.88	298.88	
Unimproved Vacant Land	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Revenues																							
Customer Charges	2019																						
Single, Two-Family, & Townhomes	5953	310,416	387,183	414,329	438,992	460,857	479,359	493,775	508,673	524,051	539,669	555,768	566,821	578,114	578,114	578,114	578,114	578,114	578,114	578,114	578,114	578,114	
Per Acre:																							
Park, Cemetery, Golf	10.09	168	180	193	202	212	221	227	234	241	248	255	261	266	266	266	266	266	266	266	266	266	
School	91.01	16,821	17,671	18,908	19,855	20,849	21,682	22,334	23,004	23,695	24,405	25,137	25,639	26,153	26,153	26,153	26,153	26,153	26,153	26,153	26,153	26,153	
Mobile Home Park	45.69	19,457	12,064	12,908	13,553	14,232	14,800	15,244	15,701	16,172	16,657	17,156	17,499	17,850	17,850	17,850	17,850	17,850	17,850	17,850	17,850	17,850	
Church	42.27	14,273	15,292	16,362	17,180	18,039	18,761	19,324	19,904	20,501	21,116	21,750	22,185	22,628	22,628	22,628	22,628	22,628	22,628	22,628	22,628	22,628	
Apt, Condo, Sr. Housing	189.68	75,829	81,760	87,480	95,248	100,008	104,004	107,128	110,345	113,657	117,064	120,573	122,988	125,450	125,450	125,450	125,450	125,450	125,450	125,450	125,450	125,450	
Comm/Indust/Warehouse	503.25	381,884	406,566	435,029	456,790	479,638	498,821	513,778	529,198	545,080	561,426	578,275	589,849	601,645	601,645	601,645	601,645	601,645	601,645	601,645	601,645	601,645	
Late Charges		11,069	20,000	15,000	15,300	15,600	15,900	16,200	16,500	16,800	17,100	17,400	17,700	18,100	18,500	18,900	19,300	19,700	20,100	20,500	20,900	21,300	
Sump Pump		3,000																					
Total Customer Charges		832,917	940,714	1,000,210	1,057,120	1,109,434	1,153,548	1,188,010	1,223,558	1,260,198	1,297,685	1,336,313	1,362,942	1,390,206	1,390,606	1,391,006	1,391,406	1,391,806	1,392,206	1,392,606	1,393,006	1,393,406	
Non Operating Revenue																							
Interest Income	1%	10,771	12,500	3,300	3,900	3,400	6,000	4,400	3,800	3,100	5,500	4,700	4,100	3,700	3,600	4,800	5,400	5,200	4,900	6,900	7,500	8,600	
In-house engineering and admin charges		3,931	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000	5,100	
LGA		25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	
Grant Funds - Lions Park				197,500																			
Total Non Operating Revenue		39,702	40,700	229,100	32,300	31,900	34,600	33,100	32,600	32,000	34,500	33,800	33,300	33,000	33,000	34,300	35,000	34,900	34,700	36,800	37,500	38,700	
Total Revenue		872,619	981,414	1,229,310	1,089,420	1,141,334	1,188,148	1,221,110	1,256,158	1,292,198	1,332,185	1,370,113	1,396,242	1,423,206	1,423,606	1,425,306	1,426,406	1,426,706	1,426,906	1,429,406	1,430,506	1,432,106	
Input Assumptions for Expenses																							
Growth in Personnel Services				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Growth in Materials & Supplies cost				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Growth in Contractual Services				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Operating Expense																							
Personnel Services		140,516	164,600	179,600	184,988	190,538	196,254	202,141	208,206	214,452	220,885	227,512	234,337	241,367	248,608	256,067	263,749	271,661	279,811	288,205	296,851	305,757	
Materials and Supplies		11,587	28,000	18,000	18,540	19,096	19,669	20,259	20,867	21,493	22,138	22,802	23,486	24,190	24,916	25,664	26,434	27,227	28,043	28,885	29,751	30,644	
Long Lake Improvement Association		2,717	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	7,500	
Contractual Services & Admin Fees		253,486	312,400	340,200	350,406	360,918	371,746	382,898	394,385	406,217	418,403	430,955	443,884	457,200	470,916	485,044	499,595	514,583	530,021	545,921	562,299	579,168	
Total Operating		408,306	512,500	545,300	561,434	578,052	595,169	612,799	630,958	649,661	668,926	688,769	709,207	730,258	751,941	774,274	797,277	820,971	845,375	870,511	896,401	923,069	
Non Operating Expenses																							
Transfer to Bicentennial Pond		700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	
Transfer to Lake Diane		1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	
Total Non Operating Expenses		1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	
Capital Outlay		1,023,034	1,111,603	914,000	312,000	433,000	476,000	1,199,000	354,000	366,000	377,000	363,000	413,000	477,000	378,000	414,000	520,000	505,000	354,000	464,000	420,000	504,000	
Total Expenses		1,433,290	1,624,103	1,459,300	873,434	1,011,052	1,071,169	1,811,799	984,958	1,015,661	1,045,926	1,051,769	1,122,207	1,207,258	1,129,941	1,188,274	1,317,277	1,325,971	1,199,375	1,334,511	1,316,401	1,427,069	
Internal Loan Payments				533,061																			
2012 Community Reinvestment Loan for \$305,800 10 yrs	3%	33,892	33,900	33,900	33,900	33,900																	
2013 Flood Mitigation Project Loan for \$115,000 10 yrs	3%	13,199	13,200	13,200	13,200	13,200	13,200																
2014 Flood Mitigation Project Loan for \$200,000 10 yrs	3%	22,955	23,000	23,000	23,000	23,000	23,000	23,000															
2018 Flood Mitigation Project Loan for \$500,000 10 yrs	3%		58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	
2019 Internal Loan \$700,000 10 years	3%			82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	
2020 Internal Loan \$500,000 10 yrs				58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	
2022 Internal Loan \$400,000 10 yrs						46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	
2024 Internal Loan \$800,000 10 years	3%							93,000	93,														

Stormwater Improvements

Updated: 11/8/2019

Description	Actual 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039
Uses:																						
PMP: Water quality treatment inclusions																						
Well #8															5,000							
Well # 10, PMP			\$10,000																			
Freedom Park Parking Lot		30,000																				30,000
Freedom Hard Court and Skate Park																45,000						
Tennis courts					100,000																	
4th Street NW Hansen Park Parking Lot						30,000																
PW Garage East Parking Lot						80,000																
Driftwood West Lot, East & West Sunny Square							45,000															
NBCC Patio and Parking Lot							120,000															
Hidden Oaks and innsbruck Park Parking Lots								30,000														
PW Garage Lot West									15,000													
Silver Oaks Parking Lot										15,000												
Totem Parking Lot											15,000											
Totem Hard Court																	30,000					
Golf Course Parking Lot																						
Vermont and Silver Oaks Hard Court																						
Misc. Storm Sewer Work, PMP (TBD)	0	30,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
Sub-Total PMP	0	60,000	30,000	20,000	120,000	130,000	185,000	50,000	35,000	35,000	20,000	35,000	50,000	50,000	25,000	65,000	50,000	20,000	20,000	20,000	20,000	50,000
Misc																						
Lions Park 16-05 - Reuse		283,800																				
Lake Jones Purchase	5,000	95,000																				
Sub-Total Misc	5,000	378,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pond Dredgings:																						
Future pond dredgings TBD	0	75,000	75,000	75,000	75,000	75,000	75,000	75,000	80,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000
Sub-Total Pond Dredgings	0	75,000	75,000	75,000	75,000	75,000	75,000	75,000	80,000	90,000												
Stormwater Projects:																						
Flood Mitigation:																						
Oakwood Ave, Gardenview Apartments, Brightwood Hills Golf			30,000																			
2018 Freedom Park Storm Sewer (West Pike Lake ASR)	803,143																					
4th Street Low Area							524,000															
Oakwood Pipe Overflow							150,000															
Sub-Total Flood Mitigation	803,143	0	30,000	0	0	0	674,000	0														
Street Reconstruction Curb Replacements	98,000	400,000	456,000	141,000	160,000	175,000	185,000	144,000	164,000	162,000	160,000	192,000	239,000	137,000	196,000	257,000	254,000	130,000	237,000	185,000	232,000	364,000
Non-Curb Street Reconstruction Work																						
2018 West Pike Lake Area	69,000	73,003																				
2019 Apache Hills Area		124,800	250,000																			
2020 Sunnyside West Area			73,000																			
2021 Sunnyside East Area				76,000																		
2022 MSA Routes					78,000																	
2019 West Long Lake Area						71,000																
2019 Poppyseed Drive						25,000																
2024 Oakwood Drive & SE Hansen Area							80,000															
2025 Mounds Avenue & Violet Lane								85,000														
2026 19th/20th S of 7th									87,000													
2027 Area between SLR & LLR North of 14th										90,000												
2028 14th to 17th E of SLR											93,000											
2029 Innsbruck Area												96,000										
2030 14th to 16th near E2													98,000									
2031 Mississippi to Rice Creek Terrace														101,000								
2032 Mississippi to Rice Creek Road															103,000							
2033 5th/Driftwood & 3rd/Heritage Area																108,000						
2034 Bell Pole Area																	111,000					
2035 Torchwood Dr & Pike Lake East																		114,000				
2036 SE Streets and Campus Drive Industrial Avenue																			117,000			
2037 Wexford Heights Area																				125,000		
2038 Brookshire Area																					125,000	
2039 1st Streets NW/SW																						125,000
Sub-Total Street Reconstruction	214,891	597,803	779,000	217,000	238,000	271,000	265,000	229,000	251,000	252,000	253,000	288,000	337,000	238,000	299,000	365,000	365,000	244,000	354,000	310,000	357,000	364,000
Total Uses	1,023,034	1,111,603	914,000	312,000	433,000	476,000	1,199,000	354,000	366,000	377,000	363,000	413,000	477,000	378,000	414,000	520,000	505,000	354,000	464,000	420,000	467,000	504,000

Stormwater Fund - Projected Cash Balances



PUBLIC WORKS PROJECTS

Department: Storm Water

Item: Flood Mitigation

- Oakwood, Gardenview Apartments, Brightwood Hills Golf
- Pike Lake Area
- 4th Street Low Area

Year/Cost: 2020 - Oakwood, Gardenview Apartments, Brightwood Hills Golf
2024 - 4th Street Low Area, Oakwood

Cost: 2020 - \$30,000 Oakwood and Brightwood Overflows, Gardenview Study
2024 - \$524,000 4th Street Low Area, \$150,000 Oakwood Pipe Overflow

Description:

2019- Oakwood, Gardenview, Brightwood Hills

The City continues to evaluate areas that have drainage issues/concerns during large storm events.

Oakwood Avenue near Silver Lane takes surface runoff from a large area and the catch basins and pipes can only handle so much water until it reaches an emergency overflow elevation that was designed and built with the home at 389 Oakwood. This swale is successful at providing an outlet for excess stormwater, but it creates several problems: washouts of grass/rock/fence have occurred with the high velocity flows, and standing water in the rear outlot can impound on adjacent properties until the water dissipates. Staff will study this area and recommend the appropriate materials to armor this overflow and prevent washouts. Additionally, staff will recommend an appropriate long term revision to be included with planned street reconstruction in 2024.

Gardenview Apartments (1399 8th St NW) have historically had flooding of their parking lot. Staff would like to review recommendations from the Flood Report completed in 2012 and recommend the timing for a path forward. The ownership group has reached out and would cooperate in this process. Staff would pursue cost sharing opportunities with the owner based on reductions to their flood insurance premiums.

1790 20th Avenue NW on Brightwood Hills Golf Course is the recipient of an overflow swale. The separation from the lowest point in the swale to the lowest opening where water could enter the house is minimal. Because of this the homeowners watch the weather very closely and spends hours of their time making sure the swale does not become blocked, thereby flooding their home. Staff will survey this property in detail and provide for a more defined outlet path.

2024 - 4th Street NW Low Area and Oakwood:

4th Street Low Area

This industrial/commercial area is located south of 5th Street NW between 8th Avenue and the railroad corridor. A 42-inch storm sewer serves the site and parcels on the block north of the site. Runoff leaving the site is directed via storm sewer through the residential area west of the site before discharging to Ramsey County Ditch 2 in Hansen Park. Low areas on this site have no overland flow route present to protect existing structures. Improvements will include the construction of an additional detention basin, the installation of a backflow prevention device, and increasing the storm sewer capacity with a larger pipe network.

Oakwood

In 2013, the City increased the size and number of catch basins near Silver Oaks Park on Oakwood. When capacity of the pipes is reached, stormwater overflows between 2 lots and heads to an outlot east of Oakwood. To address this concern an EOF pipe will be constructed on 3rd Street SW towards 16th Ave.

Justification: Each of these areas experienced flooding during the July 16, 2011 storm event and some of the areas experienced flooding again on June 21, 2013. To limit future damage and reduce flooding potential these options will improve stormwater discharge in the area, and by combining these projects with planned street improvements, project costs are reduced.



FREEDDEN COURT (@ PIKE LAKE DRIVE)

PUBLIC WORKS PROJECTS

Department: Storm Sewer

Item: Pavement Management – Parking Lots

Year(s): 2020 – Well #10
2022 – Tennis Court Replacements
2023 – 4th Street NW Hansen Park Parking Lot
2023 – PW Garage East Parking Lot
2024 – Driftwood West Lot, East and West Sunny Square
2024 – NBCC patios and Parking Lot
2025 – Hidden Oaks and Innsbruck Park Parking Lots
2026 – PW Garage Lot West
2027 – Silver Oaks Parking Lot
2029 – Totem Parking Lot
2030 – Golf Course Parking Lot
2031 – Vermont and Silver Oaks Hard Court
2032 – Well #8
2032 – Meadow Wood Hard Court
2033 – Freedom Hard Court and Skate Park
2034 – Totem Hard Court
2034 – Well #10
2039 – Freedom Park Parking Lot

Cost: 2020 – \$10,000
2022 – \$100,000
2023 – \$110,000 (\$30,000 Hansen and \$80,000 PW)
2024 – \$165,000 (\$120,000 NBCC and \$45,000 Parking Lots)
2025 – \$30,000
2026 – \$15,000
2027 – \$15,000
2029 – \$15,000
2030 – \$30,000
2031 – \$30,000
2032 – \$5,000
2033 – \$45,000
2034 – \$30,000
2039 – 2nd time completed \$0 (watershed should not require this 2x)

Description: This item includes cost to remove/install storm sewer and storm water treatment basins during the reconstruction of pavement/parking lots at each location indicated within the City.

Justification: Pavement Management is included in the Comprehensive Street Plan that was adopted by the City Council in 1980 and 2008. The goal of the Plan is the following:

1. Optimize pavement service life
2. Stabilize maintenance requirements

3. Minimize financial impact on the community
4. Provide uniformity and consistency in the treatment of pavement problems
5. Improve chances of obtaining project approvals
6. Provide a schedule for correction of utility and drainage

Pavements typically do not last longer than 30 years without incurring significant maintenance expenses. As such, the replacement of parking lots is scheduled on a 30-year cycle.

PUBLIC WORKS PROJECTS

Department: Storm Water

Item: Pond Dredging

Year:	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Cost:	\$75K	\$75K	\$75K	\$75K	\$75K	\$75K	\$80K	\$90K	\$90K	\$90K
Year:	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Cost:	\$90K	\$90K	\$120K							

Description: Over time, storm water ponds fill in with sediment and muck. The excess material is removed when it is determined that the storage capacity of the pond has been reduced to the point where it is not functioning as designed. Dredging consists of the removal of sediment and other unsuitable material deposited on the pond bottom using heavy equipment. The material accumulated in the ponding basins need to be tested for Polycyclic Aromatic Hydrocarbons (PAH’s) and metals (i.e. Arsenic and Copper). Based on the findings from these tests, the material is determined to be Dredge Management Level 1-3. Level 1 can typically be re-used on-site, but Level 3 is typically disposed of at an MPDA permitted solid waste facility. The landfill chosen for soil disposal should be contacted regarding the required testing for waste profiling under their permit.

Justification: Many storm water retention, sedimentation, and infiltration ponds have been constructed over the years. In order for the ponds to function properly they must be dredged of sediment deposits. Ponds are normally cleaned on an as needed basis; when requested by property owners abutting the pond or as part of the MPCA NPDES Phase II storm water facilities inspection and repair process.

The following pictures are the before photos of the Central Pond in the Windsor Green Townhome Area, and during the actual dredging of the pond.



PUBLIC WORKS PROJECTS

Department: Storm Water

Item: Street Reconstruction Curb Replacement
Street Reconstruction Storm Water Improvements

Year:	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Curb Cost:	\$456K	\$141K	\$160K	\$175K	\$185K	\$144K	\$164K	\$162K	\$160K	\$192K
Storm Cost:	\$73K	\$76K	\$78K	\$96K	\$80K	\$85K	\$87K	\$90K	\$93K	\$96K
Year:	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Curb Cost:	\$239K	\$137K	\$196K	\$257K	\$254K	\$130K	\$237K	\$185K	\$232K	\$364K
Storm Cost:	\$98K	\$101K	\$103K	\$108K	\$111K	\$114K	\$117K	\$125K	\$125K	\$125K

Description: Currently, all City streets in New Brighton are constructed with permanent concrete curb and gutter. During past street reconstruction projects, we have repaired damaged or broken curb and gutter which averages less than 20 percent of the entire curb on the project. The current assessment policy for curb and gutter repairs is the City pays 75% of all costs and the residents are assessed 25%.

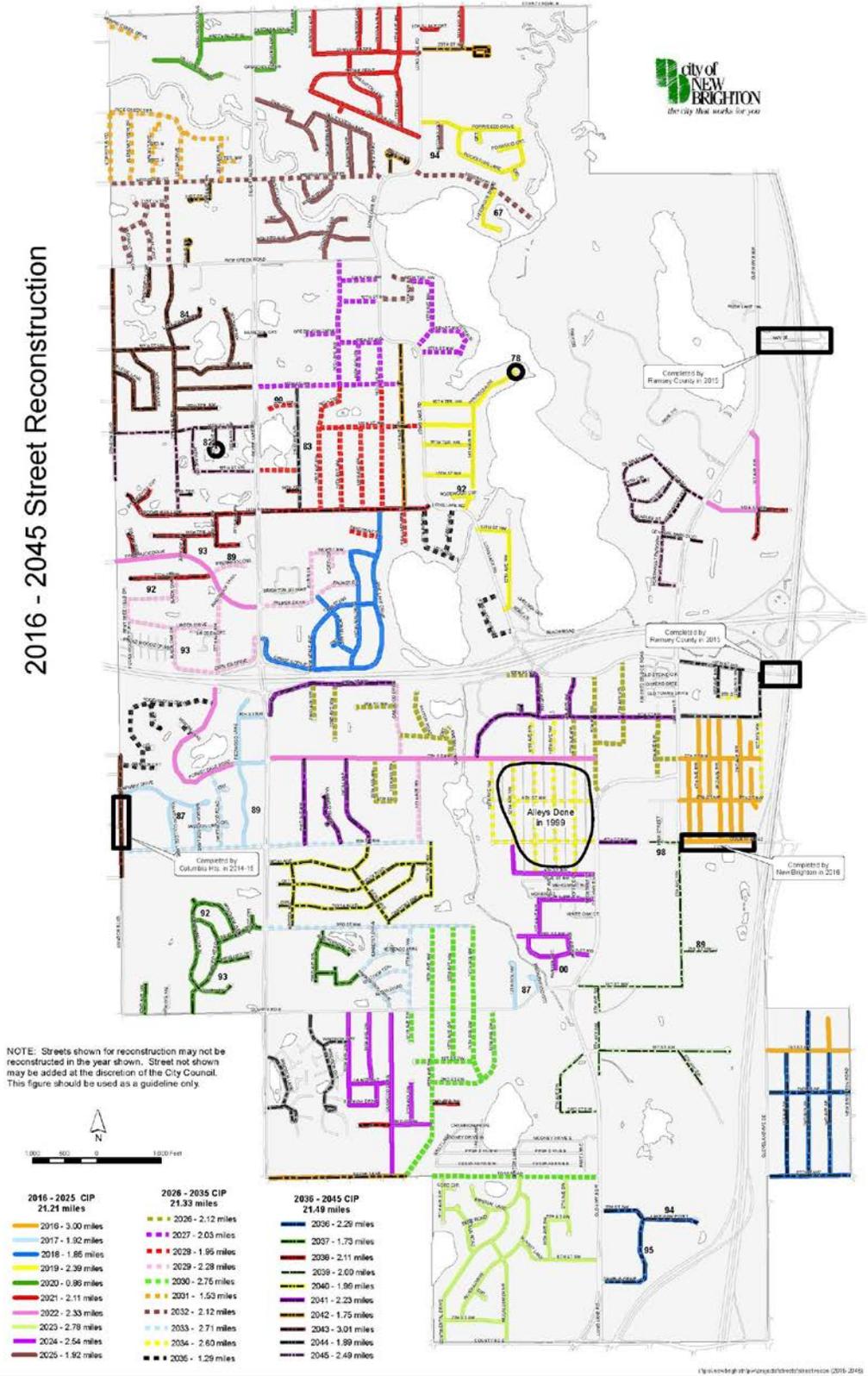
In the future, as curb and gutters age to over 50 years old, the curb will be due for replacement. This program will provide the ability to offset some or all of the cost of curb replacement. Many similar communities only make residents pay once for the curb and gutter (when it is first installed).

Installing, repairing, and upgrading the storm water system in street reconstruction areas. This work can include the construction of storm water quality and water infiltration ponds.

Justification: Curb and gutters are part of the drainage system for a street. If the curb was not present, a ditch or drainage swale would be present. Paying for curb and gutter replacement could be considered an eligible storm sewer project expense and therefore reduce both the City cost and the cost of assessments. Street reconstruction projects require the repair and upgrading of the storm water system to meet the needs of the City, the requirements of the Rice Creek Watershed District, and the mandates of the Minnesota Pollution Control Agency’s NPDES permit.



2016 - 2045 Street Reconstruction



Street Lights

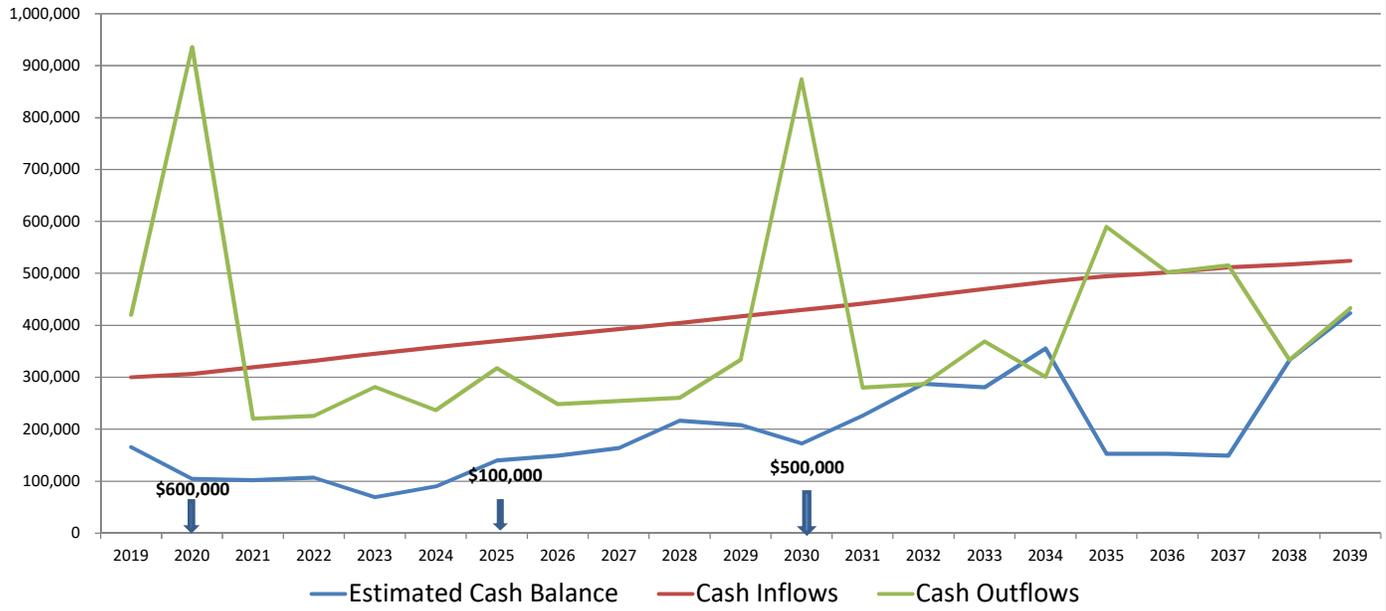


City of New Brighton
Street Lights

Updated:
11/8/2019 15:46

	Actual 2018	Projected 2019	Projected 2020	Adjusted Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039	
Input Assumptions for revenue																							
% Increase	3.00%	2.00%	3.50%	3.50%	4.00%	4.00%	4.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	2.00%	2.00%	2.00%	1.00%	1.00%	
Rates:																							
Single, Two Family home per lot & Townhomes per unit	10.16	10.36	10.72	11.10	11.54	12.00	12.48	12.85	13.24	13.64	14.05	14.47	14.90	15.35	15.81	16.28	16.77	17.11	17.45	17.80	17.98	18.16	
All Other Properties	30.46	31.07	32.16	33.29	34.62	36.00	37.44	38.56	39.72	40.91	42.14	43.40	44.70	46.04	47.42	48.84	50.31	51.32	52.35	53.40	53.93	54.47	
Revenues																							
Customer Charges																							
Single, Two Family, & Townhomes	5,943	226,721	246,300	254,800	266,298	276,793	287,892	299,396	308,276	317,560	327,246	337,035	347,126	357,418	368,216	379,215	390,516	402,322	410,396	418,569	426,945	431,284	435,623
All Other Properties	392	41,780	48,700	50,400	52,200	54,300	56,400	58,700	60,500	62,300	64,100	66,100	68,100	70,100	72,200	74,400	76,600	78,900	80,500	82,100	83,700	84,600	85,400
Late Charges		6,014	6,114	6,214	6,314	6,414	6,514	6,614	6,714	6,814	6,914	7,014	7,114	7,214	7,314	7,414	7,514	7,614	7,714	7,814	7,914	8,014	8,114
Total Customer Charges	6,335	274,515	295,000	305,200	318,498	331,093	344,292	358,096	368,776	379,860	391,346	403,135	415,226	427,518	440,416	453,615	467,116	481,222	490,896	500,669	510,645	515,884	521,023
Non Operating Revenue																							
Interest Income	1%	4,431	5,300	1,700	1,000	1,000	1,100	700	900	1,400	1,500	1,600	2,200	2,100	1,700	2,300	2,900	2,800	3,600	1,500	1,500	1,500	3,300
Total Revenue		278,945	300,300	306,900	319,498	332,093	345,392	358,796	369,676	381,260	392,846	404,735	417,426	429,618	442,116	455,915	470,016	484,022	494,496	502,169	512,145	517,384	524,323
Input Assumptions for Expenses																							
Growth in Materials & Supplies				0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Professional Svcs				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Growth in Electricity				2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	3.00%	3.00%
Growth in Contractual Services				3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Operating Expense																							
Materials & Supplies	-	9,000	9,000	9,300	9,600	9,900	10,200	10,500	10,800	11,100	11,400	11,700	12,100	12,500	12,900	13,300	13,700	14,100	14,500	14,900	15,300	15,800	
Electricity	137,958	140,000	140,000	130,000	132,600	135,300	138,000	140,800	143,600	146,500	149,400	152,400	155,400	158,500	161,700	164,900	168,200	171,600	175,000	178,500	183,900	189,400	
Maintenance	6,894	15,000	15,000	15,500	16,000	16,500	17,000	17,500	18,000	18,500	19,100	19,700	20,300	20,900	21,500	22,100	22,800	23,500	24,200	24,900	25,600	26,400	
Contractual Services & Admin Fees	51,900	56,300	63,800	65,700	67,700	69,700	71,800	74,000	76,200	78,500	80,900	83,300	85,800	88,400	91,100	93,800	96,600	99,500	102,500	105,600	108,800	112,100	
Total Operating Expense	196,752	220,300	227,800	220,500	225,900	231,400	237,000	242,800	248,600	254,600	260,800	267,100	273,600	280,300	287,200	294,100	301,300	308,700	316,200	323,900	333,600	343,700	
Capital Outlay																							
Misc. Street Light re-lamping																		181,000					
Re-lamp 54 Street Lights Old Hwy 8																			186,000				
Re-lamp 67 Street Lights Silver Lake Rd South			67,000																	191,600			
Re-lamp 95 Street Lights Silver Lake Rd North		40,000																					
Re-lamp 58 5th Ave Lights to 1st St		-	116,000																				
Re-lamp 102 lights in NBE			255,000																				
Silver Lake Rd South Pole Replacements			220,000																				
Silver Lake Rd North Pole Replacements	128,886	159,700																					
Old Highway 8 lights from 8th Avenue to CR E													400,000										
1st St NW lights from 5th Avenue to Old 8													200,000										
Traffic Signal Painting								75,000											100,000				
Paint Light Poles						50,000										75,000							
Paint Old Hwy 8 Street Lights			50,000									67,000											90,000
Total Capital Outlay	128,886	199,700	708,000	-	-	50,000	-	75,000	-	-	-	67,000	600,000	-	-	75,000	-	281,000	186,000	191,600	-	90,000	
Total Expenditures	325,638	420,000	935,800	220,500	225,900	281,400	237,000	317,800	248,600	254,600	260,800	334,100	873,600	280,300	287,200	369,100	301,300	589,700	502,200	515,500	333,600	433,700	
Internal Loan Payments																							
2017 Internal Loan \$275,000 @ 3% 10 yrs	32,035	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000
2020 Internal Loan \$600,000 @ 3% 10 yrs	-	-	-	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500
2025 Internal Loan \$100,000 @ 3% 5 yrs																							
2030 Internal Loan \$500,000 @ 3% 5 yrs																							
Total Internal Loan Payments	32,035	32,000	32,000	101,500	101,500	101,500	101,500	101,500	123,500	123,500	91,500	91,500	91,500	107,800	107,800	107,800	107,800	107,800	107,800	-	-	-	-
Beginning Cash & Investments	396,110	317,382	165,682	104,782	102,280	106,973	69,465	89,760	140,136	149,296	164,042	216,477	208,302	172,821	226,836	287,751	280,868	355,790	152,786	152,755	149,400	333,183	
Cash Increase/(Decrease)	(78,728)	(151,700)	(660,900)	(2,502)	4,693	(37,508)	20,296	(49,624)	9,160	14,746	52,435	(8,174)	(535,482)	54,016	60,915	(6,884)	74,922	(203,004)	(31)	(3,355)	183,784	90,623	
Internal Loans			600,000					100,000					500,000										
Estimated Ending Cash Balance	317,382	165,682	104,782	102,280	106,973	69,465	89,760	140,136	149,296	164,042	216,477	208,302	172,821	226,836	287,751	280,868	355,790	152,786	152,755	149,400	333,183	423,806	
Possible Cash "Ceiling"	651,700	1,675,800	322,000	327,400	432,900	338,500	494,300	372,100	378,100	352,300	492,600	1,565,100	388,100	395,000	551,900	409,100	978,500	688,200	707,100	333,600	523,700	726,900	
Amount Over (Under) "Ceiling"	(334,318)	(1,510,118)	(217,218)	(225,120)	(325,927)	(269,035)	(404,540)	(231,964)	(228,804)	(188,258)	(276,123)	(1,356,798)	(215,279)	(168,164)	(264,149)	(128,232)	(622,710)	(535,414)	(554,345)	(184,200)	(190,517)	(303,094)	

Street Lights Fund - Projected Cash Balances



PUBLIC WORKS PROJECTS

Department: Street Lighting

Item: Re-lamp street lights

Year: 2020 Re-lamp 102 Lights North of 694 in the Exchange
2020 Re-lamp 58 Lights North of 1st Street on 5th Avenue
2020 Re-lamp 67 Silver Lake Road Lights south of 694 and replace poles

Cost: 2020 \$255,000 Exchange
2020 \$116,000 5th to 1st
2020 \$67,000 (LED) & \$220,000 (funding for pole replacement) South of Silver Lake Road
2030 \$400,000 Old Highway 8 lights from 8th Avenue to CR E
2030 \$200,000 1st St NW lights from 5th Avenue to Old 8

Description: The City owns the ornamental street light systems along Silver Lake Road and Old Highway 8. For some of the lights that are unmetered, the City has a maintenance contract with Xcel Energy to service the electrical portion of the lighting system. The City will transition the unmetered portions of the light system to meters during planned LED retrofit projects. For the lights that are currently metered, and those that will be metered in the future, the City is responsible for re-lamping, inspection, and maintenance.

The City owns and maintains 95 street lights on Silver Lake Road North of 694, and 58 street lights on 5th Avenue NW from 1st Street NW to Old Highway 8. They were originally installed on Silver Lake Road in two phases – 2001 and 2004. The street lights on 5th Avenue NW were installed in 1999. These lights were completely re-lamped in 2008. The City also owns street lights on Northwest Parkway (NWQ) installed in 2007, street lights north of I694 along Old Highway 8 installed in 2008, and several lights by the Enclave (Pulte Development) in 2015, for a total of 102 lights. The 2007 street lights were due for their first re-lamping in 2015.

Originally all of these lights contained high pressure sodium (HPS) lamps that have an average operating life of 24,000 service hours. On average, 50 percent of the street lights will be burned out or cycling after 6.5 years of operation.

During the 2015 Street Rehabilitation project, existing luminaires on 10th Street were retrofitted with LED fixtures. Then in 2016, 54 unmetered lights on Old Highway 8 south of 10th Street were replaced with LED fixtures and meters were added. To provide for a longer service life, all of the decorative luminaires in the City will eventually be replaced with LED fixtures.

Currently, the 67 lights on Silver Lake Road south of 694 are maintained by Xcel, and the 2020 plan for replacement will include the addition of metered LED fixtures. The

existing steel poles and bases have been impacted by salt from the adjacent roadways and staff recommends replacement of the poles with the luminaire project. Staff is considering aluminum poles (natural aluminum color or anodized black/bronze) as they do not require painting and the forecasted painting schedule for these poles would not be necessary. Another option that is being considered is fiberglass poles.

The cost for any associated traffic signal lights on Silver Lake Road will be considered for MSA maintenance dollars.

It is anticipated that lights will be added along Old Highway 8 and 1st St NW to complete to sense of place initiatives for these corridors.

Justification: Re-lamping is scheduled maintenance; it was last done in 2008. The ornamental lights are a large investment, and need to be maintained and kept in good working order. LED lights are efficient and will significantly outlast the HPS lamps.

PUBLIC WORKS PROJECTS

Department: Street Lighting

Item: Re-paint ornamental street lights

Year: 2019-2039

Cost: See Below

Description: The City owns the ornamental street light systems along Silver Lake Road and Old Highway 8. The City is responsible for the maintenance of the light pole structure.

Street Light Painting – Silver Lake Road

This work includes sandblasting and painting the bottom 10-feet of the street lights along Silver Lake Road. These lights along this stretch of road are subjected to large amounts of salt and sand from the County plows. This work will need to be done every five to eight years depending on how much corrosion is present. In 2008, Public Works went out for quotes for the painting of the street lights on Silver Lake Road from I694 to Rice Creek. This work included the 95 street lights on Silver Lake Road and also 16 signal light poles, 3 pedestrian push button pedestals, 4 City Hall parking light poles, and 126 feet of wrought iron fence at the intersection of 10th Street NW and Old Highway 8 NW.

In 2012, Public Works went out for quotes for the painting of the 67 street lights on Silver Lake Road south of I-694. The work involved priming and painting 80 street lights and 24 signal poles. 67 of the street lights are owned by the City of New Brighton and 13 are owned by the City of St. Anthony. 19 of the signal light poles are owned by the City of New Brighton and 5 are owned by the City of St. Anthony. The work also included priming and painting of 100 lineal feet of three foot tall iron railing. This railing is located at Old Highway 8 just south County Road E, under the railroad underpass. In addition, 65 lineal feet of three foot tall iron stair railing located at City Hall. Also included were four lights in the east parking lot of City Hall.

As luminaires are planned for LED replacement the City will look to replace existing metal light poles with aluminum or fiberglass, this will eliminate/limit the need to paint the poles and will also limit rust created from salt on the adjacent roadways.

Street Light Painting – Old Highway 8

This work includes cleaning, priming, and painting the entire ornamental street light poles (not including the mounting bracket) on Old Highway 8 and 10th Street NW. 72 poles were last painted in 2003.

Signal Painting – Multiple Locations

This work includes

Justification: This is scheduled maintenance on an 8-12 year cycle. The ornamental lights are a large investment, and need to be maintained and kept in good working order.

Future Street Light Maintenance Costs

2019/2029/2039– \$50,000, \$67,000,
\$90,000
[Paint Old Hwy 8 Street Lights]

2025, 2035 Traffic Signal Painting
\$75,000, \$100,000

2018 and 2020 pole replacement with
aluminum



Community Reinvestment



COMMUNITY REINVESTMENT FUND

Cash Flow Projections

Fund 401

Description	Actual 2018	Projected 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024	Projected 2025	Projected 2026	Projected 2027	Projected 2028	Projected 2029	Projected 2030	Projected 2031	Projected 2032	Projected 2033	Projected 2034	Projected 2035	Projected 2036	Projected 2037	Projected 2038	Projected 2039
Cash Balance as of 1/1/xx	3,293,369	1,764,058	1,490,434	839,475	809,506	1,048,737	1,702,769	1,050,142	1,718,933	2,208,223	3,031,555	3,831,120	4,430,032	4,425,532	4,879,287	5,268,080	5,614,461	5,929,306	6,096,399	6,157,363	6,218,936	6,281,126
Revenues:																						
Interest Earnings at 1.0%	49,299	17,641	14,904	8,395	8,095	10,487	17,028	10,501	17,189	22,082	30,316	38,311	44,300	44,255	48,793	52,681	56,145	59,293	60,964	61,574	62,189	62,811
Transfer In:																						
General Fund Fund Balance Policy	139,800																					
Fire Relief Contribution From the City																						
Lower Level City Hall Lease Payments - \$150,000 more to pay back loan																						
UMCPI \$109,800/5 yrs (\$75,000)	16,725																					
MCPA \$140,400/10 yrs	14,040	14,040	14,040	14,040	14,040	14,040	14,040	14,040	5,850													
Misc																						
Interfund Loans Repayments:																						
Stormwater Loan 2012	33,892	33,892	33,892	33,892	33,892																	
Stormwater Loan 2013	13,199	13,199	13,199	13,199	13,199	13,199																
Stormwater Loan 2014	22,955	22,955	22,955	22,955	22,955	22,955	22,955															
Stormwater Loan 2018		58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000										
Stormwater Loan 2019			82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000	82,000										
Stormwater Loan 2020				58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000	58,000									
Stormwater Loan 2022						46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300	46,300					
Stormwater Loan 2024								93,000	93,000	93,000	93,000	93,000	93,000	93,000	93,000	93,000	93,000	93,000	93,000			
Stormwater Loan 2026										35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000					
Street Lights 2017	32,035	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000	32,000										
Street Lights 2020				69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500									
Street Lights 2025										22,000	22,000	22,000	22,000									
Street Lights 2030														107,800	107,800	107,800	107,800	107,800				
Water 2018		150,650	150,650	150,650	150,650	150,650	150,650	150,650	150,650	150,650	150,650	150,650										
Water 2021					69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500	69,500						
Water 2024								57,900	57,900	57,900	57,900	57,900	57,900	57,900	57,900	57,900	57,900					
License Bureau 2017 Phase I		84,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000									
License Bureau 2017 Phase II			17,400	17,400	17,400	17,400	17,400	17,400	17,400	17,400	17,400	17,400										
Base Rate Excess Increment	133,192																					
Total Revenues	455,137	426,377	449,041	570,031	639,231	654,032	647,373	768,791	789,289	823,332	799,566	598,911	495,500	453,755	388,793	346,381	314,845	167,093	60,964	61,574	62,189	62,811
Expenditures:																						
Interfund Loans																						
Cash deficits for CAFR																						
Stormwater Loans	500,000	700,000	500,000		400,000	-	800,000		300,000													
Street Lights Loans	-		600,000					100,000					500,000									
Water Loans	1,300,000			600,000			500,000															
License Bureau Remodel (Phase 1)	27,641																					
License Bureau Remodel (Phase 2)	156,807																					
Total Expenditures	1,984,448	700,000	1,100,000	600,000	400,000	-	1,300,000	100,000	300,000	-	-	-	500,000	-								
Net Change to Cash	(1,529,311)	(273,623)	(650,959)	(29,969)	239,231	654,032	(652,627)	668,791	489,289	823,332	799,566	598,911	(4,500)	453,755	388,793	346,381	314,845	167,093	60,964	61,574	62,189	62,811
Cash Balance as of 12/31/xx	1,764,058	1,490,434	839,475	809,506	1,048,737	1,702,769	1,050,142	1,718,933	2,208,223	3,031,555	3,831,120	4,430,032	4,425,532	4,879,287	5,268,080	5,614,461	5,929,306	6,096,399	6,157,363	6,218,936	6,281,126	6,343,937