

TABLE 1
CITY OF LOWELL
WATER AND SEWER FUND
CAPITAL IMPROVEMENTS PLAN

PROJECT NAME	INFLATED COST	YEAR 1 2023	YEAR 2 2024	YEAR 3 2025	YEAR 4 2026	YEAR 5 2027	YEAR 6 2028	YEAR 7 2029	YEAR 8 2030	YEAR 9 2031	YEAR 10 2032	YEARS 11 + 2033 +
WATER AND SEWER IMPROVEMENTS												
CAMERA SYSTEM (COST SHARE WITH STORMWATER)	55,000				55,000							
WATER AND SEWER IMPROVEMENTS SUBTOTAL	55,000	0	0	0	55,000	0	0	0	0	0	0	0
WATER IMPROVEMENTS												
Redundant Lines Identification and Repair	118,078	10,300	10,609	10,927	11,255	11,593	11,941	12,299	12,668	13,048	13,439	
HWY 7 Line Improvements to Alternative Meter Point	1,000,000				1,000,000							
Water Loss Study	10,000			10,000								
Asset Inventory and Assessment (GRANT MATCH)	9,750	9,750										
WATER IMPROVEMENTS SUBTOTAL	1,137,828	20,050	10,609	20,927	1,011,255	11,593	11,941	12,299	12,668	13,048	13,439	0
WASTEWATER IMPROVEMENTS												
Sewer Flow Metering	75,000				75,000							
Systemwide Collection System Rehabilitation	3,000,000								3,000,000			
Systemwide Manhole Rehabilitation	482,558		47,500	48,925	50,393	51,905	53,462	55,066	56,717	58,419	60,172	
Lynn Street Pump Station Replacement	700,000				700,000							
Infiltration and Inflow / System Repairs	354,234	30,900	31,827	32,782	33,765	34,778	35,822	36,896	38,003	39,143	40,317	
WWTP Improvements:	0											
Sandblast and Paint Building/Catwalk	78,000	78,000										
Headworks Pump Station Upgrade	700,000					700,000						
Force Main	100,000								100,000			
Solids Handling	500,000								500,000			
Check Valves	5,000	5,000										
Bar Screens	4,000	2,000				2,000						
Coarse Bar Screen	4,000	4,000										
Smart Valves and Regulators	80,000					80,000						
Chlorine Exhaust Fan	1,000	1,000										
Caustic Feed System and Pumps	2,000			2,000								
Water Heater	1,000			1,000								
I&I Sampler	12,000	12,000										
pH Meter	5,000		5,000									
Refrigerator	1,000		1,000									
Clarifier Air Lift	20,000				20,000							
Pump Motor Rebuilds	2,000	2,000										
Pre-Construction Planning Grant for a Wastewater Interconnection with Two Rivers Utilities	400,000	400,000										
Wastewater Interconnection with Two Rivers Utilities Project	10,000,000		10,000,000									
WASTEWATER IMPROVEMENTS SUBTOTAL	16,526,791	534,900	10,085,327	84,707	879,158	868,683	89,283	91,962	3,694,721	97,562	100,489	0
TOTAL	17,719,619	554,950	10,095,936	105,634	1,945,413	880,275	101,224	104,260	3,707,388	110,610	113,928	0

TABLE 2
CITY OF LOWELL
WATER AND SEWER FUND
DEBT SERVICE SUMMARY

TYPE	NAME	2022	YEAR 1 2023	YEAR 2 2024	YEAR 3 2025	YEAR 4 2026	YEAR 5 2027	YEAR 6 2028	YEAR 7 2029	YEAR 8 2030	YEAR 9 2031	YEAR 10 2032
WATER	WATER METERS		36,253	36,253	36,253	36,253	36,253	36,253	36,253	36,253	36,253	36,253
WATER & SEWER (60% AFTER FY 21)	CHEVY 3500	6,275	6,275	6,275								
SEWER	WWTP PUMP	9,416	9,416	9,416	9,416							
WATER & SEWER (75% AFTER FY 21)	JETTER	8,404	8,404	8,404	8,404	8,404	6,303					
WATER & SEWER (60% AFTER FY 21)	BACKHOE	9,328	9,328	9,328	9,328	9,328	9,328					
WATER & SEWER (50% AFTER FY 21)	PUSH CAM	1,301	1,301	1,301	1,301	976						
TOTAL		34,723	70,976	70,976	64,701	54,960	51,884	36,253	36,253	36,253	36,253	36,253

TABLE 3-A
CITY OF LOWELL
WATER AND SEWER FUND
FINANCIAL ANALYSIS

LINE ITEM	AUDIT 2017	AUDIT 2018	AUDIT 2019	AUDIT 2020	AUDIT 2021	ESTIMATE 2022	YEAR 1 2023	YEAR 2 2024	YEAR 3 2025	YEAR 4 2026	YEAR 5 2027	YEAR 6 2028	YEAR 7 2029	YEAR 8 2030	YEAR 9 2031	YEAR 10 2032
REVENUES:																
WATER AND SEWER FEES	1,162,143	1,088,318	1,201,643	1,258,295	1,191,546											
WATER SALES						720,000	740,880	762,366	784,474	807,224	830,633	854,722	879,509	905,014	931,260	958,266
SEWER SALES						560,000	576,240	592,951	610,147	627,841	646,048	664,784	684,062	703,900	724,313	745,318
TAP FEES	7,600	12,457	4,600	19,100	7,400	15,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000	9,000
RECONNECT FEES		14,864	16,747	234	0	40,000	15,000	15,435	15,883	16,343	16,817	17,305	17,807	18,323	18,854	19,401
ACTIVATION FEES		0	0	0	10,028	10,000	10,000	10,290	10,588	10,895	11,211	11,537	11,871	12,215	12,570	12,934
DEVELOPMENT FEE		69,460	91,145	35,988	7,300	34,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000	85,000
NONOPERATING INCOME:																
INVESTMENT INCOME	7	16	5	5	5	5	10	0	10	10	10	10	20	30	30	40
LOAN PROCEEDS				22,000	163,242											
INSURANCE PROCEEDS	4,000															
MISCELLANEOUS	1,463	2,074	4,200	1,120	1,702	3,000	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
TOTAL REVENUES	1,175,213	1,187,189	1,318,340	1,336,742	1,381,223	1,382,005	1,442,630	1,481,541	1,521,602	1,562,813	1,605,220	1,648,857	1,693,769	1,739,983	1,787,527	1,836,460
NEW SOURCES OF REVENUE:																
REVENUE FROM WATER RATE INCREASE							111,132	245,863	315,241	392,279	477,713	572,344	677,049	792,785	920,598	1,061,629
PERCENTAGE INCREASE							15.0%	15.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%
REVENUE FROM SEWER RATE INCREASE							86,436	191,227	245,187	305,106	371,554	445,156	526,593	616,611	716,021	825,711
PERCENTAGE INCREASE							15.0%	15.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%
TOTAL REVENUES	1,175,213	1,187,189	1,318,340	1,336,742	1,381,223	1,382,005	1,640,198	1,918,631	2,082,030	2,260,199	2,454,487	2,666,357	2,897,411	3,149,378	3,424,146	3,723,800
WATER & SEWER OPERATIONS:																
SALARIES AND BENEFITS	249,551	287,111	316,284	332,377	312,105	326,000	434,013	455,714	478,499	502,424	527,546	553,923	581,619	610,700	641,235	673,297
UTILITIES	10,537	15,296	17,820	16,365	13,548	10,804	20,000	20,600	21,218	21,855	22,510	23,185	23,881	24,597	25,335	26,095
MAINTENANCE AND REPAIRS	16,486	106,836	6,086	28,796	37,968	60,000	30,000	31,200	32,448	33,746	35,096	36,500	37,960	39,478	41,057	42,699
SUPPLIES	11,465	37,048	24,616	24,288	53,747	69,000	56,500	58,760	61,110	63,555	66,097	68,741	71,491	74,350	77,324	80,417
CONTRACTED SERVICES	21,156	40,974	48,379	30,411	35,267	40,000	35,000	36,400	37,856	39,370	40,945	42,583	44,286	46,058	47,900	49,816
WATER PURCHASES	380,682	373,894	385,169	384,130	440,947	471,000	508,209	548,358	591,678	638,420	688,856	743,275	801,994	865,351	933,714	1,007,477
OTHER	61,723	53,334	45,871	50,310	63,704	50,000	66,195	68,181	70,226	72,333	74,503	76,738	79,040	81,412	83,854	86,369
WASTEWATER TREATMENT:																
UTILITIES	30,800	25,690	31,417	28,825	27,657	27,000	40,000	41,200	42,436	43,709	45,020	46,371	47,762	49,195	50,671	52,191
MAINTENANCE AND REPAIRS	5,865	26,909	6,683	8,371	4,424	15,000	25,000	25,750	26,523	27,318	28,138	28,982	29,851	30,747	31,669	32,619
SUPPLIES	39,696	34,856	36,124	38,481	38,676	40,000	49,000	50,960	52,998	55,118	57,323	59,616	62,001	64,481	67,060	69,742
CONTRACTED SERVICES	75,672	80,684	113,549	110,885	124,850	100,000	140,180	145,787	151,619	157,683	163,991	170,550	177,372	184,467	191,846	199,520
SEWER TREATMENT	37,466	45,494	74,972	66,869	80,801	89,000	85,000	88,400	91,936	95,613	99,438	103,415	107,552	111,854	116,328	120,982
RENT																
OTHER	10,405	49,028	20,729	47,628	67,462	20,000	64,300	66,229	68,216	70,262	72,370	74,541	76,778	79,081	81,453	83,897
TOTAL OPERATING EXPENDITURES	951,504	1,177,154	1,127,699	1,167,736	1,301,156	1,317,804	1,553,397	1,637,538	1,726,763	1,821,408	1,921,832	2,028,421	2,141,586	2,261,771	2,389,447	2,525,122
CAPITAL PROJECT FUND																
CAPITAL OUTLAY	0	0	1,946	27,220	164,242	81,644	154,950	95,936	105,634	170,413	180,275	101,224	104,260	107,388	110,610	113,928
DEBT:																
EXISTING DEBT	88,121	67,019	57,351	54,163	12,623	31,332	70,976	70,976	64,701	54,960	51,884	36,253	36,253	36,253	36,253	36,253
NEW DEBT						0	0	0	0	118,250	236,499	236,499	236,499	420,169	603,838	603,838
TOTAL EXPENDITURES	1,039,625	1,244,173	1,186,996	1,249,119	1,478,021	1,430,780	1,779,323	1,804,450	1,897,098	2,165,031	2,390,491	2,402,397	2,518,600	2,825,581	3,140,148	3,279,142
REVENUES OVER EXPENDITURES	135,588	-56,984	131,344	87,623	-96,798	-48,775	-139,125	114,181	184,932	95,168	63,997	263,959	378,811	323,797	283,997	444,659
ACCRUAL ADJUSTMENTS	-61,596	362,264	-77,229	-84,225												
NET INCOME	73,992	305,280	54,115	3,398	-96,798	-48,775	-139,125	114,181	184,932	95,168	63,997	263,959	378,811	323,797	283,997	444,659
UNRESTRICTED NET POSITION	412,360	344,489	545,073	482,518	400,621	351,846	212,721	326,901	511,833	607,001	670,997	934,957	1,313,768	1,637,566	1,921,563	2,366,222
UNRESTRICTED NET POSITION / TOTAL EXPENDITURES	40%	28%	46%	39%	27%	25%	12%	18%	27%	28%	28%	39%	52%	58%	61%	72%
NEW DEBT:																
LOAN AMOUNT										2,475,000				3,600,000		
RATE										5.00%				6.00%		
TERM										15				15		
PAYMENT										118,250				183,669		
ANNUAL PAYMENTS										236,499				367,339		
ASSUMPTIONS:																
ANNUAL REVENUE GROWTH OF 2.9%.																
WATER PURCHASES INCREASE AT AVERAGE ANNUAL RATE OF 7.9% (5% RATE AND 2.9% USAGE GROWTH).																
OTHER EXPENDITURES INCREASE BY AVERAGE ANNUAL RATES OF 3-5%.																