

City of Owosso

Utility Requirements Discussion and Overview

February 18, 2025

Michigan offices

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Water Utility Estimated Capital Improvement Plan

Project Name/Description	2025	2026	2027	2028	2029	2030
WTP Plant Replacement Project (tentative) - Membrane Plant Design and Permit	_	_	,			_
(Engineering Construction & Admin)	\$200,000	\$200,000	-	-	-	-
SCADA Controls - WTP - Phase 1 (DWSRF 7497-01) (Engineering Construction & Admin)						
	350,000	-	-	-	-	-
Electrical System and Grounding Improvements (possible DWSRF) (Construction)	-	1,000,000	-	-	-	-
Equipment Storage Building (WTP) (Construction)	-	-	\$85,000	-	-	-
Lagoon Security Fence (Construction)	-	-	85,000	-	-	-
Roof Replacement (Construction)	-	-	-	-	\$470,000	-
Sub-basement Sump Pump Improvements (Construction)	-	-	50,000	-	-	-
Internal Pipe Cleaning - Clarifier Effluent to Filter Influent (Service)	150,000	-	-	-	-	-
Hi Service Pneumatic Controller (Service)	30,000	-	-	-	-	-
Pump and Motor Replacement (WWTP) (Equipment)	15,000	15,000	15,000	\$15,000	15,000	\$15,000
Rehabilitate Palmer Well #3A (Service)	-	-	-	-	45,000	-
Palmer #2 Well Rehab (Construction)	-	-	-	50,000	-	-
WTP Well Rehab (2) LW13 and LW1 (Service)	45,000	45,000	-	-	-	_
WTP Hintz Well Rehab (Construction)	-	-	50,000	-	-	-
Well House LW1, P@ & P1 and mechanical equipment improvements (possible DWSRF)	-	1,000,000	-	-	-	-
Lagoon 2 & 3 - Lime Sludge Removal (Service)	496,000	-	-	-	-	-
Backwash Lagoon No 1 Rehab (Service)	-	60,000	-	-	-	-
Backwash Lagoon No 2 Rehab (Service)	-	60,000	-	-	-	_
Altitude Valves (2) - Replace or rebuild (Construction)	-	-	50,000	-	-	-
Lagoon 1 - Lime Sludge Removal (Service)	-	266,000	-	-	-	-
Lagoon 4 - Lime Sludge Removal (Service)	-	_	-	-	664,000	_
Lime Residuals Mechanical Dewatering (Construction)	-	-	-	-	-	15,000,000
Aerator Improvements (Service)	-	-	260,000	-	-	-
Replace Chlorine Distribution Tanks (Service)	-	-	-	-	1,500,000	-
SCADA Controls - WTP - Phase 1 (DWSRF 7497-01) (Construction)	1,850,000	-	-	-	-	-
Transmission Water Main Replacement Project (Construction/Maintenance)		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Sub-totals	3,136,000	4,146,000	2,095,000	1,565,000	4,194,000	16,515,000
Plus: Inflation Allowance (5%)	156,800	207,300	214,738	246,683	903,833	4,562,790
Total Capital Improvements	\$3,292,800	\$4,353,300	\$2,309,738	\$1,811,683	\$5,097,833	\$21,077,790

Water Utility Estimated Capital Improvement Plan

Project Name/Description	2025	2026	2027	2028	2029	2030
Exchange Street Water Main Replacement (Construction/Maintenance)		\$833,750		-	_	-
Campbell Drive Water Main Replacement (Construction/Maintenance)	-	-	-	-	\$474,000	-
Broadway Avenue Water Main Replacement (Construction/Maintenance)	-	-	-	\$241,000	-	-
King Street Water Main Replacement (Construction/Maintenance)	-	-	-	718,750	-	-
Water Street Water Main Replacement (Construction/Maintenance)	-	-	-	-	-	\$695,750
Martin Street Water Main Replacement (Construction/Maintenance)	-	-	-	-	709,000	-
Huntington Drive Water Main Replacement (Construction/Maintenance)	-	-	-	-	488,750	-
Dewey Street Water Main Replacement (Construction/Maintenance)	-	-	-	-	1,644,500	-
Elm Street Water Main Replacement (Construction/Maintenance)	-	-	-	-	-	320,000
Comstock Street Water Main Replacement (Construction/Maintenance)	-	-	-	-	891,250	891,250
Monroe Street Water Main Replacement (Construction/Maintenance)	-	-	-	1,150,000	-	-
Ball Street Water Main Replacement (Construction/Maintenance)	-	-	-	1,725,000	-	-
Mason Street Water Main Replacement (Construction/Maintenance)	-	-	\$569,250	-	-	-
2025 Water Main Replacement Project (Construction/Maintenance)	\$343,000	895,000	-	-	-	-
Gilbert Street Water Main Replacement (Construction/Maintenance)	391,000	-	-	-	-	-
Clinton Street Water Main Replacement (Construction/Maintenance)	635,375	-	-	-	-	-
Stewart Street Water Main Replacement (Construction/Maintenance)	300,000	-	-	-	-	-
2028 Water Main Replacement Project (Construction/Maintenance)	-	-	-	1,344,000	1,237,000	-
2027 Water Main Replacement Project (Construction/Maintenance)	-	-	2,412,250	2,297,125	-	-
2029 Water Main Replacement Project (Construction/Maintenance)	-	-	-	-	-	2,651,625
Water Service Line Replacement Project (Construction/Maintenance)	1,200,000	1,300,000	1,400,000	1,500,000	1,600,000	1,700,000
Jerome Street Water Service Line Replacement (Construction/Maintenance)	-	69,300	-	-	-	-
Chipman Street Water Main Replacement (2) (Construction/Maintenance)	-	-	1,075,250	-	-	-
Chipman Street Water Main Replacement (1) (Construction/Maintenance)	-	-	569,250	-	-	-
Cedar Street Water Main Replacement (Construction/Maintenance)	-	-	2,530,000	-	-	-
Woodlawn Avenue Water Main Replacement (Local) (Construction/Maintenance)		460,000				
Sub-totals Sub-totals	2,869,375	3,558,050	8,556,000	8,975,875	7,044,500	6,258,625
Plus: Inflation Allowance (5%)	143,469	177,903	876,990	1,414,822	1,518,134	1,729,143
Total Capital Improvements	\$3,012,844	\$3,735,953	\$9,432,990	\$10,390,697	\$8,562,634	\$7,987,768

Water Utility Estimated Capital Improvement Plan

Project Name/Description	2025	2026	2027	2028	2029	2030
2026 Water Main Replacement Project (Construction/Maintenance)	_	\$1,798,000	\$2,042,000			
Shady Lane Water Main Replacement (Construction/Maintenance)	-	690,000	-	-	-	-
2024 Water Main Replacement Project (Construction/Maintenance)	\$599,375	-	-	-	-	-
WTP Filter Rehab (DWSRF 7497-01) (Construction)	3,000,000	-	-	-	-	-
Booster Station Upgrade (Construction)	-	-	1,000,000	-	-	-
CO2 Distribution System Rehab (Construction)	-	-	-	\$380,000	-	-
WTP Filter Rehab (basement level equipment/control panels on first floor) (Construction)	-	-	-	500,000	-	-
WTP Reservoir Design/High Service Pump Replacement (Construction)	-	-	-	-	\$20,000,000	-
Filter valves, actuators & meters installed with controls (Construction)	-	-	-	500,000	-	-
WTP River Crossing Raw Water Main Replacements (Construction)	-	-	-	-	1,000,000	-
Chlorine Distribution Tanks (Construction)	-	-	-	-	1,000,000	-
Fluoride Distribution System (Construction)	-	-	-	-	250,000	-
Filter Effluent Piping Replacement (Construction)	-	-	-	130,000	-	-
Rehabilitate Juniper #1 Well (Service)	-	-	-	-	-	\$45,000
Plant Effluent Prop Meter (Other)	25,000					
Sub-totals	3,624,375	2,488,000	3,042,000	1,510,000	22,250,000	45,000
Plus: Inflation Allowance (5%)	181,219	124,400	311,805	238,014	4,795,014	12,433
Sub-total Capital Improvements	\$3,805,594	\$2,612,400	\$3,353,805	\$1,748,014	\$27,045,014	\$57,433
Total Capital Improvement Plan	\$10,111,238	\$10,701,653	\$15,096,533	\$13,950,394	\$40,705,481	\$29,122,990
6 Year Total						\$119,688,288
SCADA Controls - WTP - Phase 1 (DWSRF 7491-01) (Engineering Construction & Admin) SCADA Controls - WTP - Phase 1 (DWSRF 7491-01) (Construction) WTP Filter Rehab (DWSRF 7497-01) (Construction) Total bond funded existing bond funded	\$350,000 1,850,000 2,795,398 \$4,995,398					
Proposed bond funded		\$9,401,653	\$13,696,533	\$12,450,394	\$39,105,481	\$27,422,990
Proposed cash funded	\$5,115,840	\$1,300,000	\$1,400,000	\$1,500,000	\$1,600,000	\$1,700,000

Estimated Funding Requirements – Full Capital Plan

	Fiscal Year Ending							
	2025	2026	2027	2028	2029	2030		
Revenue Requirements			-					
Operation and maintenance	\$3,416,265	\$3,518,753	\$3,624,316	\$3,733,045	\$3,845,036	\$3,960,387		
Outside City revenues to Townships	352,873	458,735	596,356	751,409	939,261	1,080,150		
General fund contribution	243,345	326,352	424,258	534,565	668,206	768,437		
Existing debt service	603,652	740,346	858,489	871,089	1,235,642	1,244,244		
Proposed debt service [1]			2,341,852	2,341,852	2,341,852	2,341,852		
Proposed debt service [2]					4,358,446	4,358,446		
Cash funded capital improvements	4,911,238	1,300,000	1,400,000	1,500,000	1,600,000	1,700,000		
Totals	\$9,527,373	\$6,344,186	\$9,245,271	\$9,731,960	\$14,988,443	\$15,453,516		
Revenues								
Water ready to serve charge	806,754	1,048,780	1,363,414	1,717,902	2,147,378	2,469,485		
Metered sales	3,897,811	5,067,154	6,587,300	8,299,998	10,374,998	11,931,248		
Metered sales - wholesale usage	316,236	411,107	534,439	673,393	841,741	968,002		
Other [3]	343,221	343,221	343,221	343,221	343,221	343,221		
Totals	\$5,364,022	\$6,870,262	\$8,828,374	\$11,034,514	\$13,707,338	\$15,711,956		
Rate increases		30.00%	30.00%	26.00%	25.00%	15.00%		
Estimated Cash Balance								
Change in cash balance	(\$4,163,351)	\$526,076	(\$416,898)	\$1,302,554	(\$1,281,106)	\$258,440		
Beginning cash balance	5,107,442	944,091	1,470,167	1,053,269	2,355,823	1,074,717		
Ending cash balance	\$944,091	\$1,470,167	\$1,053,269	\$2,355,823	\$1,074,717	\$1,333,157		
90-day minimum O&M expense cash requirement	\$854,066	\$879,688	\$906,079	\$933,261	\$961,259	\$990,097		
Quarterly Bill - 18ccf - Inside City								
Demand charge - 5/8 inch meter	\$43.50	\$57.00	\$74.00	\$93.00	\$116.00	\$133.00		
Capital charge - 5/8 inch meter	28.64	37.00	48.00	60.00	75.00	86.00		
Usage	60.12	78.12	101.52	127.98	160.02	183.96		
Total	\$132.26	\$172.12	\$223.52	\$280.98	\$351.02	\$402.96		

- [1] An estimated \$36 million bond issue amortized over 30 years at a 5.00% interest rate.
- [2] An estimated \$67 million bond issue amortized over 30 years at a 5.00% interest rate.
- [3] Consists of permits, hydrant rental, interest income, and other revenues.



Estimated Funding Requirements – 2025 DWSRF Only

	Fiscal Year Ending							
	2025	2026	2027	2028	2029	2030		
Revenue Requirements								
Operation and maintenance	\$3,416,265	\$3,518,753	\$3,624,316	\$3,733,045	\$3,845,036	\$3,960,387		
Outside City revenues to Townships	352,873	363,459	378,979	395,768	439,896	453,093		
General fund contribution	243,345	258,571	269,612	281,556	312,950	322,338		
Existing debt service	603,652	740,346	858,489	871,089	1,235,642	1,244,244		
Cash funded capital improvements	416,595	302,225	272,778	361,593	437,397	313,444		
Totals	\$5,032,730	\$5,183,354	\$5,404,174	\$5,643,051	\$6,270,921	\$6,293,506		
Rate increases		3.00%	4.27%	4.43%	11.15%	3.00%		
Quarterly Bill - 18ccf - Inside City								
Demand charge - 5/8 inch meter	\$43.50	\$45.00	\$47.00	\$49.00	\$54.00	\$56.00		
Capital charge - 5/8 inch meter	28.64	29.00	30.00	31.00	34.00	35.00		
Usage	60.12	61.92	64.62	67.50	75.06	77.40		
Total	\$132.26	\$135.92	\$141.62	\$147.50	\$163.06	\$168.40		

^{*}Rate increases per MFCI municipal advisors.

Wastewater Treatment Plan Estimated Capital Improvement Plan

Project Name/Description	2025	2026	2027	2028	2029	2030
Auxiliary Roof Replacement (Construction)	-	\$300,000	-	-	-	-
Administration Building / Lab Rehab (Construction)	-	250,000	-	-	-	-
Primary Clarifier Steel Coating (Construction)	-	-	\$150,000	-	-	-
Security Cameras (Construction)	-	-	30,000	-	-	-
Plant Improvements - Phase 1: Filtration, Disinfection, Electrical,						
SCADA (Construction)	\$10,000,000	10,000,000	-	-	-	-
Tertiary and Roughing Tower Pumps Rehabilitation (Construction)	50,000	50,000	50,000	\$50,000	\$50,000	\$50,000
Nitrification Towers Rehabilitation Project (Construction)	-	-	-	15,000,000	-	-
Secondary Clarifier Replacement (Construction)	-	-	-	-	7,000,000	-
Digester Demo	-	-	500,000	-	-	-
Retention Basin (Construction)	-	-	-	-	20,000,000	-
Sludge Dryer (Construction)				<u> </u>	<u>-</u>	5,000,000
Subtotal	\$10,050,000	\$10,600,000	\$730,000	\$15,050,000	\$27,050,000	\$5,050,000
Plus: Inflation Allowance (5%)	502,500	530,000	74,825	2,372,256	5,829,444	1,395,222
Total Capital Improvements	\$10,552,500	\$11,130,000	\$804,825	\$17,422,256	\$32,879,444	\$6,445,222
6 Year Total					=	\$79,234,247
Cash funded - depreciation expense and contributions	\$414,000	\$739,000	\$804,825	\$914,000	\$937,694	\$962,099
Bond funded	10,138,500	10,391,000	-	16,508,256	31,941,750	5,483,123
2025 bond issue	\$20,529,500					
2028 bond issue				\$53,933,129		
Rounded	\$21,000,000			\$54,000,000		

Estimated Funding Requirements

		Fiscal Year Ending							
	2025	2026	2027	2028	2029	2030			
Revenue Requirements									
Operation and maintenance	\$2,174,353	\$2,238,084	\$2,303,726	\$2,371,338	\$2,440,978	\$2,512,707			
Cash funded improvements	414,000	739,000	804,825	854,825	876,744	899,320			
Debt service [1]	704,969	2,517,102	2,513,718	6,027,810	6,028,885	6,029,613			
Total revenue requirements	\$3,293,322	\$5,494,186	\$5,622,269	\$9,253,973	\$9,346,607	\$9,441,640			
Revenue Requirement by Unit									
City of Owosso	\$2,117,795	\$3,342,989	\$3,430,739	\$5,373,312	\$5,436,243	\$5,500,860			
Owosso Township	459,431	893,394	907,666	1,676,616	1,687,294	1,698,211			
Caledonia Township	313,314	636,796	645,749	1,227,050	1,233,845	1,240,782			
City of Corunna	402,784	621,007	638,115	976,995	989,225	1,001,786			
Total revenue requirements	\$3,293,324	\$5,494,186	\$5,622,269	\$9,253,973	\$9,346,607	\$9,441,639			
Percentage difference		67%	2%	65%	1%	1%			
Estimated Cash Balance									
Change in cash balance	(\$2)	\$0	\$0	\$0	\$0	\$1			
Beginning cash balance	1,361,752	1,361,750	1,361,750	1,361,750	1,361,750	1,361,750			
Ending cash balance	\$1,361,750	\$1,361,750	\$1,361,750	\$1,361,750	\$1,361,750	\$1,361,751			

^[1] Assumes a \$21 million bond issue amortized over a 30 year period at 5.00% interest rate. Assumes a \$54 million bond issue amortized over a 30 year period at 5.00% interest rate.

Sewer Utility Capital Improvement Plan

Project Name/Description	2025	2026	2027	2028	2029	2030
Sanitary Sewer Interceptor (Construction/Maintenance)	-	-	-	\$1,800,000	\$1,800,000	-
Sanitary Sewer Rehab - Open Cut (Construction/Maintenance)	\$400,000	\$400,000	\$400,000	400,000	400,000	\$400,000
Sanitary Sewer River Crossing at M-52 Bridge						
(Construction/Maintenance)	50,000	<u>-</u>	<u>-</u> _	750,000	750,000	
Sub-totals	450,000	400,000	400,000	2,950,000	2,950,000	400,000
Plus: Inflation Allowance (5%)	22,500	20,000	41,000	464,994	635,743	110,513
Total Capital Improvements	\$472,500	\$420,000	\$441,000	\$3,414,994	\$3,585,743	\$510,513
			_	_		
6 Year Total						\$8,844,750
Cash funded	\$472,500	\$420,000	\$441,000	\$463,050	\$486,203	\$510,513
Bond funded				2,951,944	3,099,540	

Estimated Funding Requirements

	Fiscal Year Ending						
	2025	2026	2027	2028	2029	2030	
Revenue Requirements			<u>.</u>				
Operation and maintenance							
Collection system expenses	\$737,568	\$759,695	\$782,486	\$805,960	\$830,139	\$855,043	
WWTP O&M	1,480,952	1,524,359	1,569,068	1,615,118	1,662,550	1,711,405	
WWTP replacement	263,209	484,566	529,400	563,455	578,384	593,760	
WWTP debt	373,634	1,334,064	1,332,271	3,194,739	3,195,309	3,195,695	
Existing debt service	138,075	135,625	138,175	132,600	83,050	81,750	
Proposed debt service [1]			447,000	447,000	447,000	447,000	
Cash funded capital improvements	472,500	420,000	441,000	463,050	486,203	510,513	
Totals	\$3,465,938	\$4,658,309	\$5,239,400	\$7,221,922	\$7,282,635	\$7,395,166	
Revenues							
Metered sales	3,170,830	4,280,621	5,479,195	6,848,994	7,054,464	7,266,098	
Other revenues [2]	148,924	148,924	148,924	148,924	148,924	148,924	
Totals	\$3,319,754	\$4,429,545	\$5,628,119	\$6,997,918	\$7,203,388	\$7,415,022	
Rate increases		35.00%	28.00%	25.00%	3.00%	3.00%	
						1	
Estimated Cash Balance							
Change in cash balance	(\$146,184)	(\$228,764)	\$388,719	(\$224,004)	(\$79,247)	\$19,856	
Beginning cash balance	2,332,024	2,185,840	1,957,076	2,345,795	2,121,791	2,042,544	
Ending cash balance	\$2,185,840	\$1,957,076	\$2,345,795	\$2,121,791	\$2,042,544	\$2,062,400	
90-day minimum O&M expense cash requirement	\$713,841	\$1,025,671	\$1,053,306	\$1,544,818	\$1,566,596	\$1,588,976	
Quarterly Bill - 18ccf							
Demand charge - 5/8 inch meter	\$42.23	\$57.01	\$72.97	\$91.21	\$93.95	\$96.77	
Usage	91.80	124.02	158.76	198.54	204.48	210.60	
						~ ~	
Total	\$134.03	\$181.03	\$231.73	\$289.75	\$298.43	\$307.37	

^[1] Assumes a \$6,300,000 bond issue amortized over 25 years at a 5.00% interest rate.

^[2] Consists of penalties, interest income, and other revenues.

Estimated Area Billing Comparison

Community	Sewer [1][2]	Water [1][2]	Total Bill
Chesaning	\$243.66	\$109.95	\$353.61
Alma	165.15	188.10	353.25
Owosso City (full capital plan)	181.03	172.12	353.15
Flushing	132.84	205.24	338.08
Vienna Charter Twp	131.76	198.00	329.76
St. Johns	185.86	118.76	304.62
Durand	163.97	126.51	290.48
Frakenmuth	141.15	141.62	282.77
Owosso City (2025)	134.03	132.26	266.29
Ithaca	82.50	127.43	209.93

^[1] Per the client request information pulled from community websites on 2/14/25. Converted to quarterly billing cycle if applicable.

^[2] Assumes 18 ccf of usage per quarter.

Disclosure

The information provided here is of a general nature and is not intended to address the specific circumstances of any individual or entity. In specific circumstances, the services of a professional should be sought.

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