

# CITY OF DULUTH



**Public Works & Utilities Department  
2024 Annual Report**

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Front cover photos:  
Lead service replacement projects, photos taken  
by City staff

# OFFICERS OF THE DEPARTMENT

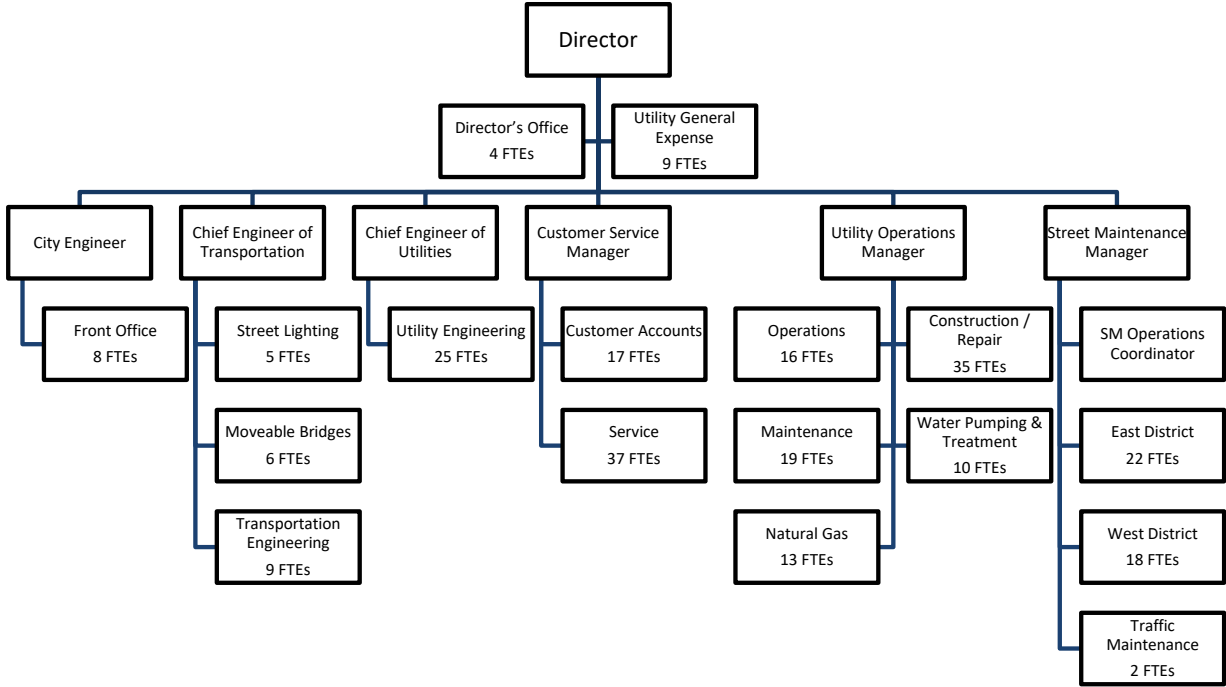
Mayor	.....	Roger Reinert
Chief Administrative Officer	.....	Dave Montgomery
City Council Public Works & Utilities Committee		
Councilor Mike Mayou		
Duluth Public Utilities Commission		
Carrie Ryan, President	Councilor Wendy Durrwachter	
Erin Abramson, Vice President	Councilor Mike Mayou	
Andrea Crouse	Councilor Terese Tomanek	
Derek Medved		

## **DEPARTMENT OF PUBLIC WORKS & UTILITIES**

Director	.....	Jim Benning
City Engineer	.....	Cindy Voigt
Chief Engineer, Transportation	.....	Cari Pedersen
Chief Engineer, Utilities	.....	Howard Smith
Manager, Customer Service	.....	John Upton
Manager, Street Maintenance	.....	Chad Bednar
Manager, Utility Operations	.....	Greg Guerrero
Executive Assistant	.....	Leanna Gilbert
Public Works & Utilities Analyst	.....	Chris Ostern
Public Works & Utilities Analyst	.....	Kerry Venier
Financial Analyst	.....	Angie Hassett

# City of Duluth Public Works & Utilities Department 2024

**Total Budgeted FTEs: 263**



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**Water Utility  
Statement of Net Income  
For The Year Ended December 31, 2023 and 2024  
(Unaudited)**

	<b>2023</b>		<b>2024</b>
<b><u>Operating Revenue</u></b>			
Metered Water Sales	\$ 17,257,538		\$ 17,983,086
Other	180,881		556,007
<b>Total Operating Revenue</b>	<b>\$ 17,438,419</b>		<b>\$ 18,539,093</b>
<b><u>Operating Expense</u></b>			
Director's Office	155,887		329,348
Capital Related Expenses	1,882,569		1,984,298
Utility General Expense	1,110,735		2,887,026
Engineering	760,601		763,096
Utility Operations	3,160,920		3,756,014
Water Treatment and Pumping	3,803,725		3,961,911
Customer Service	1,541,398		1,831,381
<b>Total Operating Expense</b>	<b>(12,415,835)</b>		<b>(15,513,074)</b>
<b>Operating Income</b>	<b>5,022,584</b>		<b>3,026,019</b>
<b><u>Other Revenue</u></b>			
Contributed Capital	3,730,580		5,325,063
Gain or Loss on the Sale of Fixed Assets	32,438		(4,248)
Transfer from Other Funds			
Administrative Billing Fee	135,000		135,000
Permanent Improvement Fund	70,618		0
Unused ARP Funds	0		559,797
Intergovernmental	0		6,173,243
Interest Income	19,900		31,010
<b>Total Other Revenue</b>	<b>3,988,536</b>		<b>12,219,865</b>
<b><u>Other Expenses and Transfers</u></b>			
Other Service Operations	0		7,298,125
Transfer to Other Funds			
Non-Capital Improvements	166,000		180,000
Reimbursement for MIS Programmer	55,800		57,500
Janitor Positions	0		36,395
Interest on Long Term Debt	171,655		150,319
<b>Total Other Expenses and Transfers</b>	<b>(393,455)</b>		<b>(7,722,339)</b>
<b>Net Income or Loss</b>	<b>\$ 8,617,665</b>		<b>\$ 7,523,545</b>

**Water Utility  
Statement of Net Assets  
For The Year Ending December 31, 2023 and 2024  
(Unaudited)**

	<b>Assets &amp; Deferred Outflows</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Assets</u></b>		
Cash	\$ 12,963,111	\$ 14,586,536
Accounts Receivable (Net)	1,587,346	1,683,089
Special Assessments	10,879	11,143
Due from Other Funds	430,667	0
Due from Other Governments	318,528	5,520,856
Inventory	1,693,989	1,738,491
Prepays	<u>1,636,126</u>	<u>0</u>
<b>Total Current Assets</b>	<b>\$ <u>18,640,646</u></b>	<b>\$ <u>23,540,115</u></b>
<b><u>Utility Plant</u></b>		
In Service	115,425,270	124,878,917
Construction	<u>16,006,813</u>	<u>15,197,787</u>
Less Accumulated Depreciation	<u>(49,319,256)</u>	<u>(51,008,536)</u>
<b>Total Utility Plant Assets</b>	<b><u>82,112,827</u></b>	<b><u>89,068,168</u></b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	<u>49,269</u>	<u>35,715</u>
<b>Total Other Assets</b>	<b><u>49,269</u></b>	<b><u>35,715</u></b>
<b>Total Assets</b>	<b><u>100,802,742</u></b>	<b><u>112,643,998</u></b>
<b><u>Deferred Outflows</u></b>		
Deferred Pension Obligation Outflows	673,656	327,478
Deferred OPEB Outflows	<u>2,767,332</u>	<u>5,864,941</u>
<b>Total Deferred Outflows</b>	<b><u>3,440,988</u></b>	<b><u>6,192,419</u></b>
<b>Total Assets and Deferred Outflows</b>	<b>\$ <u><u>104,243,730</u></u></b>	<b>\$ <u><u>118,836,417</u></u></b>

**Water Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 368,207	\$ 697,599
Contracts Payable	779,925	1,404,987
Notes Payable	904,000	5,834,051
Purchase Agreement Payable	146,915	0
Due to Other Funds	114,709	20,045
Due to Other Governments	52,984	39,225
Accrued Interest Payable	65,456	57,492
Accrued Salaries Payable	165,274	226,573
Vacations Payable	316,814	331,811
Unearned Revenue	69,291	78,533
Bonds Payable	<u>261,000</u>	<u>255,000</u>
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ <u>3,244,575</u></b>	<b>\$ <u>8,945,316</u></b>
<b><u>Long Term Liabilities</u></b>		
Notes Payable	5,547,000	4,632,000
Vacations Payable	39,999	44,019
Pension Liability	2,683,268	1,730,029
OPEB Payable	0	3,166,690
Bonds Payable	2,920,000	2,665,000
Less Unamortized Bond Discount or Premium	<u>25,245</u>	<u>22,717</u>
<b>Total Long Term Liabilities</b>	<b><u>11,215,512</u></b>	<b><u>12,260,455</u></b>
<b>Total Liabilities</b>	<b><u>14,460,087</u></b>	<b><u>21,205,771</u></b>
<b><u>Deferred Inflows</u></b>		
Deferred Pension Obligation Inflows	916,041	1,239,499
Deferred OPEB Inflows	<u>0</u>	<u>0</u>
<b>Total Deferred Inflows</b>	<b><u>916,041</u></b>	<b><u>1,239,499</u></b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	72,308,667	75,659,400
Unrestricted	<u>16,558,935</u>	<u>20,731,747</u>
<b>Total Net Assets</b>	<b><u>88,867,602</u></b>	<b><u>96,391,147</u></b>
<b>Total Liabilities, Deferred Inflows, and Net Assets</b>	<b>\$ <u><u>104,243,730</u></u></b>	<b>\$ <u><u>118,836,417</u></u></b>



**City of Duluth**  
**Water Utility Bonds, Notes, and Purchase Agreements Payable**  
**December 31, 2024**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2023</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2024</u>
<b>Water Utility</b>								
<b>Bonds</b>								
Revenue and General Obligation	\$ 196,000	2/19/2009	2/1/2024	\$ 16,000	\$ 0	\$ 0	\$ 16,000	\$ 0
Revenue and General Obligation	4,050,000	10/17/2018	2/1/2034	3,165,000	0	0	245,000	2,920,000
<b>Bond Total</b>				<u>\$ 3,181,000</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 261,000</u>	<u>\$ 2,920,000</u>
<b>Notes</b>								
Public Facilities Authority	\$ 1,293,200	9/14/2010	8/20/2025	\$ 184,000	\$ 0	\$ 0	\$ 91,000	\$ 93,000
Public Facilities Authority	3,344,131	12/14/2010	8/20/2025	491,000	0	0	244,000	247,000
Public Facilities Authority	1,221,631	11/29/2011	8/20/2026	254,000	0	0	83,000	171,000
Public Facilities Authority	4,778,806	3/24/2014	8/20/2029	1,922,000	0	0	313,000	1,609,000
Public Facilities Authority	3,857,531	1/24/2022	8/20/2042	3,600,000	0	0	173,000	3,427,000
Public Facilities Authority	2,561,481	12/17/2024	6/30/2027	0	2,226,308	0	0	2,226,308
Public Facilities Authority	1,597,285	12/17/2024	6/30/2027	0	1,286,169	0	0	1,286,169
Public Facilities Authority	1,639,354	12/17/2024	6/30/2027	0	1,268,377	0	0	1,268,377
Public Facilities Authority	1,938,000	12/17/2024	6/30/2027	0	138,197	0	0	138,197
<b>Note Total</b>				<u>\$ 6,451,000</u>	<u>\$ 4,919,051</u>	<u>\$ 0</u>	<u>\$ 904,000</u>	<u>\$ 10,466,051</u>
<b>Purchase Agreements</b>								
AMR System	\$ 3,375,986	3/28/2008	2/1/2024	\$ 146,915	\$ 0	\$ 0	\$ 146,915	\$ 0
<b>Purchase Agreement Total</b>				<u>\$ 146,915</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 146,915</u>	<u>\$ 0</u>
<b>Total Water Utility Bonds, Notes, and Purchase Agreements</b>				<u>\$ 9,778,915</u>	<u>\$ 4,919,051</u>	<u>\$ 0</u>	<u>\$ 1,311,915</u>	<u>\$ 13,386,051</u>

<b>Future Payments:</b>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2025	\$ 6,089,051	\$ 142,832	\$ 6,231,883
2026	841,000	125,897	966,897
2027	770,000	111,940	881,940
2028	780,000	98,759	878,759
2029	795,000	85,304	880,304
2030	479,000	71,499	550,499
2031	490,000	60,462	550,462
2032	502,000	48,723	550,723
2033	514,000	36,447	550,447
2034	526,000	23,617	549,617
2035	193,000	16,048	209,048
2036	195,000	14,112	209,112
2037	197,000	12,156	209,156
2038	199,000	10,181	209,181
2039	201,000	8,185	209,185
2040	203,000	6,169	209,169
2041	205,000	4,132	209,132
2042	207,000	2,076	209,076
	<u>\$ 13,386,051</u>	<u>\$ 878,539</u>	<u>\$ 14,264,590</u>

**Water Fund**  
**Schedule of Fixed Assets**  
**Year Ending December 31, 2024**

	<u>Balance Jan. 1, 2024</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2024</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 208,963	\$ 0	\$ 0	\$ 208,963	\$ 0	\$ 208,963
Infrastructure	84,646,089	9,099,380	0	93,745,469	26,447,190	67,298,279
Buildings and Structures	22,338,952	0	0	22,338,952	16,859,283	5,479,669
Equipment and Tools	8,231,266	415,722	61,455	8,585,533	7,702,063	883,470
Work in Progress	<u>16,006,813</u>	<u>8,246,608</u>	<u>9,055,634</u>	<u>15,197,787</u>	<u>0</u>	<u>15,197,787</u>
Total	<u>\$ 131,432,083</u>	<u>\$ 17,761,710</u>	<u>\$ 9,117,089</u>	<u>\$ 140,076,704</u>	<u>\$ 51,008,536</u>	<u>\$ 89,068,168</u>

## COMPARATIVE STATEMENT, OPERATING EXPENSE OF ALL STATIONS

Station	Year	Daily Average Gallons Pumped, Initial Supply	Gallons Pumped	K.W.H. Consumed	Electricity
Lakewood	2023	11,130,970	4,062,804,000	7,061,250	\$ 895,524
	2024	10,811,068	3,946,000,000	6,606,600	\$ 869,416
Middle	2023	2,435,222	888,856,000	1,332,125	\$ 183,941
	2024	2,947,638	1,075,888,000	1,019,209	\$ 142,823
Woodland	2023	1,473,069	537,670,000	1,505,659	\$ 192,399
	2024	1,634,723	596,674,000	1,420,554	\$ 184,593
West Duluth	2023	2,233,893	815,371,000	235,528	\$ 40,031
	2024	1,797,836	656,210,000	186,017	\$ 37,460
Orphanage	2023	188,036	68,633,000	57,547	\$ 10,097
	2024	231,200	84,388,000	61,422	\$ 11,116
Highland	2023	1,118,962	408,421,000	419,511	\$ 61,569
	2024	1,331,137	485,865,000	407,761	\$ 62,650
Arlington	2023	1,343,003	490,196,000	937,999	\$ 145,473
	2024	1,605,334	585,947,000	882,680	\$ 134,372
Lakeside	2023	113,833	41,549,000	60,694	\$ 15,061
	2024	130,616	47,675,000	59,533	\$ 15,652
Bay View	2023	415,745	151,747,000	220,658	\$ 37,385
	2024	393,430	143,602,000	217,801	\$ 38,596
Proctor	2023	314,874	114,929,000	197,365	\$ 34,182
	2024	366,069	133,615,000	193,466	\$ 35,461
Airport	2023	-	unmetered	14,436	\$ 2,392
	2024	-	unmetered	6,371	\$ 1,894
<b>TOTALS</b>	<b>2023</b>	<b>20,767,607</b>	<b>7,580,176,000</b>	<b>12,042,771</b>	<b>\$ 1,618,053</b>
	<b>2024</b>	<b>21,249,051</b>	<b>7,755,864,000</b>	<b>11,061,415</b>	<b>\$ 1,534,034</b>

## WATER PLANT STATISTICS

	2024	2023	2022	2021	2020	2019	2018
Water Pumped							
Million Cubic Feet	527.51	571.34	474.57	497.48	536.84	600.37	623.28
Water Sold							
Million Cubic Feet	405.00	437.04	389.00	386.65	464.23	527.56	561.94
General & Distribution Operating							
Costs including Maintenance (*)	\$ 13,769,252	\$ 10,590,969	\$ 9,380,116	\$ 7,444,915	\$ 8,183,754	\$ 8,928,974	\$ 9,255,377
Cost per 100 Cubic Feet	\$ 3.3998	\$ 2.4233	\$ 2.4113	\$ 1.9255	\$ 1.7629	\$ 1.6925	\$ 1.6470
Interest charges	\$ 150,319	\$ 171,655	\$ 188,407	\$ 192,141	\$ 219,220	\$ 245,638	\$ 252,071
Cost per 100 Cubic Feet	\$ 0.0371	\$ 0.0393	\$ 0.0484	\$ 0.0497	\$ 0.0472	\$ 0.0466	\$ 0.0449
Depreciation charge	\$ 1,743,822	\$ 1,824,866	\$ 1,820,159	\$ 1,797,168	\$ 1,773,304	\$ 1,752,474	\$ 1,818,410
Cost per 100 Cubic Feet	\$ 0.4306	\$ 0.4176	\$ 0.4679	\$ 0.4648	\$ 0.3820	\$ 0.3322	\$ 0.3236
Total Cost per 100 Cubic Feet	\$ 3.8675	\$ 2.8802	\$ 2.9277	\$ 2.4400	\$ 2.1921	\$ 2.0712	\$ 2.0155
Operating revenue	\$ 18,539,093	\$ 17,438,419	\$ 16,013,881	\$ 15,920,408	\$ 15,099,895	\$ 15,142,720	\$ 14,925,155
Revenue per 100 Cubic Feet Sold	\$ 4.5776	\$ 3.9901	\$ 4.1167	\$ 4.1175	\$ 3.2527	\$ 2.8703	\$ 2.6560
Water meters in service	28,884	28,842	28,775	28,693	28,518	28,324	28,957
Water main miles	434.00	433.30	432.80	432.30	430.30	429.50	429.30
Water meters per mile of main	66.55	66.56	66.49	66.37	66.27	65.95	67.45
Hydrants on system	2,810	2,806	2,793	2,778	2,747	2,738	2,716

(\*) Depreciation not included

## WATER PURIFICATION 2024 LAKEWOOD STATION

Month	Total Number of Gallons Treated (Millions)	Average Water Temperature at Treatment Bldg, Degrees F	Ammonia Lbs. Used	Chlorine Lbs. Used	Alum Gal. Used	Fluoride Gal. Used	Turbidity of Effluent NTU
January	333.1	36.3	1,309	8,991	5,943	1,184	0.020
February	293.9	35.8	1,163	7,891	7,924	993	0.023
March	302.3	36.2	1,201	8,171	7,924	1,067	0.024
April	293.2	37.0	1,150	8,119	5,943	1,047	0.025
May	304.3	39.5	1,194	8,341	7,924	1,076	0.024
June	580.3	45.3	1,219	9,679	7,924	1,097	0.035
July	384.8	49.1	1,499	11,861	7,924	1,327	0.026
August	381.9	51.6	1,498	11,140	9,905	1,329	0.023
September	373.8	58.3	1,441	11,354	7,924	1,303	0.018
October	338.4	45.5	1,333	9,770	7,924	752	0.039
November	307.1	44.1	1,175	8,203	3,962	1,020	0.016
December	318.9	39.3	1,174	8,411	5,943	823	0.012
<b>TOTAL</b>	4,212.0		15,356	111,931	87,164	13,018	
<b>Average/Month</b>	351.0	43.2	1,280	9,328	7,264	1,085	0.024

**2024**  
**LAKE SUPERIOR RAW WATER**  
**AND DULUTH FINISHED WATER (LABORATORY ANALYSES)**

Milligrams per Liter (except pH, Specific Conductance, and Turbidity)

	<b>RAW</b>	<b>FINISHED</b>
	Average	Average
Dissolved Oxygen, ppm	12.4	12.0
pH	7.85	9.3
Monthly Specific Conductance, Micromhos/cm	101.6	133.0
Alkalinity, ppm CaCO <sub>3</sub>	42	48
Sulfates, ppm	3.0	12.0
Fluoride, ppm	0.024	0.7
Turbidity, NTU	N/A	0.72
Total Dissolved Solids, ppm	N/A	63.3
Hardness, ppm CaCO <sub>3</sub>	N/A	44
Chlorine, Total, ppm Cl <sub>2</sub>	N/A	2.03
Monochloramine, ppm Cl <sub>2</sub>	N/A	2.13
Ammonia, Free, ppm NH <sub>3</sub> -N	N/A	0.02
Ammonia, Total, ppm NH <sub>3</sub> -N	N/A	0.41

## BACTERIOLOGICAL DATA 2024

	RAW WATER INTAKE	DISTRIBUTION	
Average for	Number Samples	Number Samples	Number Samples Positive
January	16	91	0
February	15	92	0
March	16	91	0
April	18	91	0
May	17	91	0
June	14	91	0
July	17	92	0
August	17	93	0
September	16	91	0
October	17	91	0
November	13	91	0
December	13	90	0
<b>TOTAL</b>	189	1,095	0
<b>Average for Month</b>	15.8	91.3	0

**LENGTH OF WATER MAINS IN FEET**

Diameter Inches	Cast Iron	Ductile Iron	Steel	Copper	Polyvinyl Chloride	High Density Polyethylene	Total	Valves	Vaults
1				770		4	774	4	
1 1/4				24			24	2	
2				2,587		13,365	15,952	45	
3	1,350						1,350	10	
4	10,291	2,850				253	13,394	54	
6	943,840	146,269	569		1,729	13,571	1,105,978	2,429	
8	69,967	101,215	458		294	203,924	375,858	985	5
10	153,565	52,744	5,979			35,384	247,672	439	7
12	151,887	44,197	1,904			35,888	233,876	443	11
14						2,400	2,400		
16	72,188	23,961	10,944			2,673	109,766	138	1
18	1,390	435				2,092	3,917	5	
20	14,300	1,766	29,174			14,052	59,292	113	4
24	8,440	6,583	55			5,952	21,030	34	1
30			2,673				2,673	2	
36	25,069	11,722	11,394				48,185	35	3
42	181		49,224				49,405	5	
<b>TOTALS</b>	<b>1,452,468</b>	<b>391,742</b>	<b>112,374</b>	<b>3,381</b>	<b>2,023</b>	<b>329,558</b>	<b>2,291,546</b>	<b>4,743</b>	<b>32</b>
<b>Total Miles -</b>							<b>434.0</b>		
<b>Change from 2023 -</b>							<b>0.7</b>	<b>55</b>	<b>0</b>

Notes: Pipe and valves in hydrant branches are not included in the above table.  
 Air valves, valves without gates and valves inside pump stations are not included.  
 All Main and Hydrant information provided from Geographic Information System.

**HYDRANTS AND BRANCHES**

	Total Hydrants	Valves on Branches	Lineal Feet Main to Hydt.
<b>TOTAL IN SERVICE</b>			
<b>12/31/2023</b>	2,806	2,779	43,790
<b>TOTAL IN SERVICE</b>			
<b>12/31/2024</b>	2,810	2,799	44,117
<b>Changes from 2023:</b>	<b>4</b>	<b>20</b>	<b>327</b>



## DATA, RESERVOIRS AND TANKS

Location	Capacity (Gallons)	Overflow Elevation (Feet)	Greatest Depth (Feet)	Dimension (Feet)	Remarks
Lakeside Tank	100,000	500.00	23.75	Diameter 27	Built in 1961
34th Avenue East "Reservoir A"	16,320,000	294.00	30.00	284 x 391	Built 1898, Rebuilt 1938
Endion Reservoir	14,140,000	290.00	28.00	240 x 320	Built by G & W Company Rebuilt 1922 New Roof 1966 Lined 1988
West End Reservoirs #1-6	10,200,000	290.00	33.00	Diameter 100	Built 1953
West Duluth Reservoir	10,000,000	290.00	21.00	327.3 x 263.3	Built 1906 Remodeled 1925 New Roof 2014
Middle System - Reservoir #1	5,171,000	560.00	28.00	Diameter 187.38	Built 1913 New Roof 1928 Lined 1988
Middle System - Reservoir #2	5,131,000	560.00	25.00	Diameter 190	Built in 1951
Woodland Reservoir #1	1,021,000	806.00	22.00	Diameter 91.5	Built in 1915 Lined 1939 Refaced 2002
Woodland Reservoir #2	2,015,000	806.00	35.50	Diameter 100	Built in 1950 Lined 2000 Refaced 2002
Arlington Reservoir #1	240,490	806.00	27.00	Diameter 40	Built in 1925
Arlington Reservoir #2	1,534,000	806.00	27.50	Diameter 100	Built in 1950
Orphanage Tank #1	400,000	916.00	129.40	Diameter 51.5	Built 1994
Highland Water Tower	1,000,000	141.60	40.00	Diameter 74.8 1/4	Built 2011
Bay View Heights Steel Tank	100,000	550.00	26.00	Diameter 26	Built 1972
Proctor Tank	400,000	825.00	142.00	Diameter 51.5	Built 1989
<b>TOTAL</b>	<b>67,772,490</b>				

## PUMPING STATIONS - WATER PUMPING EQUIPMENT

Station	Source of Supply	Reservoirs Discharged Into	No. Units and Year Installed	Make of Pump	Type of Pump	Unit No.	Pumps Driven By	R.P.M.	Average Capacity G.P.M. Each Unit
<b>Lakewood Low Lift</b>	Lake Superior	Lakewood	1 – 1992	Patterson	Single Stage Centrifugal	2	1 Unit direct connected to 300 hp, 2300 volt, 60 cycle, GE Induction motor	900	17,400
			1 – 1949	DeLaval		4	1 Unit direct connected to 350 hp, 2300 volt, 60 cycle, GE Induction motor	440	20,800
			1 – 1981	Worthington	Single Stage	1	1 Unit direct connected to 200 hp, 2300 volt, 60 cycle, GE Induction motor	500	11,389
<b>Lakewood High Lift</b>	Lakewood (Detention Basin)	Reservoir A Endion, West End, & West Duluth	1 – 1992	Patterson	Single Stage Centrifugal	2	2 Unit direct connected to 1500 hp, 2300 volt, 60 cycle GE Induction motor with VFD and fixed controller	1,200	17,400
			1 – 1949	DeLaval	Two Stage Centrifugal	4	2 Unit direct connected to 2000 hp, 2300 volt, 60 cycle, GE synchronous motor, with direct exciter	720	20,800
			1 – 1981	Worthington	Single Stage	1	1 Unit direct connected to 1000 hp, 2300 volt, 60 cycle GE capacitor induction motor	1,185	11,389
<b>Middle</b>	Reservoir A and Endion	Middle Service	1 – 1950	Allis-Chalmers	Single Stage, Two Unit, Centrifugal	3	Direct connected to 400 hp, 2300 volt, 60 cycle, Allis-Chalmers synchronous motor, with direct connected exciter	1,800	4,000
			1 – 1969	Aurora	Single Stage, One Unit, Centrifugal	4	Direct connected to 250 hp, 2300 volt, 60 cycle, 3-phase Louis Allis Induction motor	1,750	2,500
			1 – 1986	Fairbanks-Morse	Single Stage, One Unit, Centrifugal	5	Direct connected to 250 hp, 2300 volt, 60 cycle, 3-phase Siemens-Allis motor	1,785	2,600
<b>Woodland</b>	Reservoir A	Woodland & Arlington Reservoir	1 – 1950	Allis-Chalmers	All Units Single Stage, Two Unit, Centrifugal	3	Direct connected to 500 hp, 2300 volt, 60 cycle, Allis-Chalmers synchronous motor, with direct connected exciter	1,800	2,050
			1 – 1986	Fairbanks Morse Co.		4	Direct connected to 300 hp, 2300 volt, 60 cycle, Siemens-Allis Induction motor	1,775	1,720
			1 – 1975	Aurora #421	Two Stage, Centrifugal	5	Direct connected to 240 hp, 2300 volt, 60 cycle, 3-phase Marathon Induction motor	1,750	1,250

## PUMPING STATIONS - WATER PUMPING EQUIPMENT

Station	Source of Supply	Reservoirs Discharged Into	No. Units and Year Installed	Make of Pump	Type of Pump	Unit No.	Pumps Driven By	R.P.M.	Average Capacity G.P.M. Each Unit
<b>West Duluth</b>	Reservoir A, Endion & West	West Duluth Reservoir & West Duluth System	2 -- 2009	Fairbanks-Morse	All Units Single Stage	2	200 hp, 460 volt, 60 cycle 3-phase WEG NEMA Premium Induction motor, with VFD drive	1,200	6,000
<b>Orphanage</b>	Woodland Reservoirs	Orphanage Tanks	1 -- 1961	Worthington Type L-2	Single Stage Centrifugal	5	Direct connected to 40 hp, 440 volt, 60 cycle, U.S. Induction motor	1,750	1,000
			1 -- 1961		Single Stage Centrifugal	6	Direct connected to 40 hp, 440 volt, 60 cycle, U.S. Induction motor	1,750	1,000
<b>Highland</b>	Arlington Reservoirs	Highland Tanks	2 -- 2012	Aurora	Single Stage, Single Suction Centrifugal	3	2-Unit Direct connected to 150 hp, 460 volt, 60 HZ, 3-phase Marathon Electric XRI high efficiency motor	1,800	1,200
<b>Arlington</b>	Middle Reservoirs	Arlington Reservoirs	3 -- 2010	Aurora Type 411 BF Size 6x8x20	Single Stage Centrifugal	3	250 hp, 460 volt, 60 cycle 3-phase Baldor Induction motor with VFD drive	1,750	1,700
<b>Lakeside</b>	Two 10" Mains	Lakeside Tank	2 -- 1961	Worthington Type L-3	Single Stage Centrifugal	1 2	Each unit direct connected to 100 hp, 440 volt, 60 cycle, 3-phase U.S. Induction motor	1,750	1,000
<b>Bay View</b>	West Duluth Reservoir	Bay View Tank	2 -- 1973	Aurora	Single Stage Centrifugal	1	Each unit direct connected to 125 hp, 440 volt, 60 cycle, 3-phase U.S. Induction motor	3,500	1,200
			2 -- 2002			2			
<b>Proctor</b>	Bay View Tank	Proctor Standpipe	2 -- 1973	Aurora	Single Stage Centrifugal	1	Each unit direct connected to 125 hp, 440 volt, 60 cycle, 3-phase Louis Allis motor	3,500	1,200
						2			

## WATER UTILITY ACTIVITIES 2024

### UTILITY OPERATIONS

ACTIVITY	WORK COMPLETED
Repair of water services	34
Repair of valves	76
Repair of main breaks	46
Install services	39
<b>Fire Hydrants</b>	
Replaced hydrants	18
Repaired hydrants	40
New hydrants	2
Inspection	All fire hydrants in the City are inspected by the Fire Department and Utility Operations as part of a preventative maintenance program.

### CUSTOMER SERVICE

ACTIVITY	WORK COMPLETED
<b>Meter Truck</b>	
Gauge water service	81
Applications (water & gas)	4,131
Delinquent account service shut off/restore (water & gas)	1,875
Emergency (water & gas)	783
General (water & gas)	13,048
<b>Meter Shop</b>	
Water meters repaired	26
Water meters tested	7,089
Plumbing truck orders (water & gas)	342

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**Gas Utility  
Statement of Net Income  
For The Year Ended December 31, 2023 and 2024  
(Unaudited)**

	<b>2023</b>		<b>2024</b>
<b><u>Operating Revenue</u></b>			
Residential Sales	\$ 28,723,581		\$ 22,751,039
Commercial & Industrial - Firm	10,351,390		8,087,081
Commercial & Industrial - Interruptible	5,068,774		3,774,968
Servicing Appliances	1,102,380		1,127,658
Other	880,450		1,209,412
<b>Total Operating Revenue</b>	<b>\$ 46,126,575</b>		<b>\$ 36,950,158</b>
<b><u>Operating Expense</u></b>			
Director's Office	160,447		143,903
Capital Related Expenses	1,705,143		1,545,069
Utility General Expense	1,484,324		3,569,520
Engineering	1,211,004		1,244,486
Utility Operations	2,013,495		2,465,716
Natural Gas	24,590,425		20,914,549
Customer Service	5,211,444		5,499,403
<b>Total Operating Expense</b>	<b>(36,376,282)</b>		<b>(35,382,646)</b>
<b>Operating Income</b>	<b>9,750,293</b>		<b>1,567,512</b>
<b><u>Other Revenue</u></b>			
Contributed Assets	223,894		123,657
Gain or Loss on Sale of Fixed Assets	26,159		4,845
Interest Income	23,014		44,516
<b>Total Other Revenue</b>	<b>273,067</b>		<b>173,018</b>
<b><u>Other Expenses and Transfers</u></b>			
Interest Expense	8,472		444
Transfers to Other Funds			
Payment to City in Lieu of Taxes	4,173,720		3,228,860
Non-Capital Improvements	103,750		112,500
Reimbursement for Janitor Positions	0		36,395
Reimbursement for MIS Programmer	55,900		57,500
<b>Total Other Expenses and Transfers</b>	<b>(4,341,842)</b>		<b>(3,435,699)</b>
<b>Net Income or Loss</b>	<b>\$ 5,681,518</b>		<b>\$ (1,695,169)</b>

**Gas Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Assets &amp; Deferred Outflows</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Assets</u></b>		
Cash	\$ 12,950,195	\$ 12,261,506
Restricted Cash and Equivalents:		
Customer Deposits	1,664,215	1,551,322
Accounts Receivable (Net)	5,842,240	6,161,043
Assessments Receivable	7,994	17,568
Due from Other Funds	14,462	0
Interfund Loan Receivable	420,296	0
Inventory	1,546,251	1,492,614
Prepaid Expenses	417,211	0
Prepaid Gas	<u>2,064,758</u>	<u>1,738,515</u>
<b>Total Current Assets</b>	<b>\$ <u>24,927,622</u></b>	<b>\$ <u>23,222,568</u></b>
<b><u>Utility Plant</u></b>		
In Service	94,964,392	99,742,295
Construction	<u>4,236,532</u>	<u>1,906,140</u>
Less Accumulated Depreciation	<u>(34,731,008)</u>	<u>(36,052,120)</u>
<b>Total Utility Plant Assets</b>	<b><u>64,469,916</u></b>	<b><u>65,596,315</u></b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	<u>78,672</u>	<u>73,842</u>
<b>Total Other Assets</b>	<b><u>78,672</u></b>	<b><u>73,842</u></b>
<b>Total Assets</b>	<b><u>89,476,210</u></b>	<b><u>88,892,725</u></b>
<b><u>Deferred Outflows</u></b>		
Deferred Pension Obligation Outflows	921,608	437,500
Deferred OPEB Outflows	<u>3,884,315</u>	<u>6,867,711</u>
<b>Total Deferred Outflows</b>	<b><u>4,805,923</u></b>	<b><u>7,305,211</u></b>
<b>Total Assets and Deferred Outflows</b>	<b>\$ <u><u>94,282,133</u></u></b>	<b>\$ <u><u>96,197,936</u></u></b>

**Gas Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 2,785,412	\$ 3,153,306
Contracts Payable	397,519	368,816
Purchase Agreement Payable	134,672	0
Due to Other Funds	30,621	17,081
Due to Other Governments	116,175	135,731
Accrued Interest Payable	2,108	0
Accrued Salaries Payable	232,147	293,704
Accrued Vacations Payable	458,522	392,094
Unearned Revenue	1,219,197	1,020,118
Customer Deposits	<u>1,664,215</u>	<u>1,551,322</u>
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ <u>7,040,588</u></b>	<b>\$ <u>6,932,172</u></b>
<b><u>Long Term Liabilities</u></b>		
Accrued Vacations Payable	52,656	90,719
Purchase Agreement Payable	0	2,311,260
Pension Liability	<u>3,670,892</u>	<u>4,638,235</u>
<b>Total Long Term Liabilities</b>	<b><u>3,723,548</u></b>	<b><u>7,040,214</u></b>
<b>Total Liabilities</b>	<b><u>10,764,136</u></b>	<b><u>13,972,386</u></b>
<b><u>Deferred Inflows</u></b>		
Deferred Pension Obligation Inflows	<u>1,253,206</u>	<u>1,655,928</u>
<b>Total Deferred Inflows</b>	<b><u>1,253,206</u></b>	<b><u>1,655,928</u></b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	64,335,244	65,596,315
Unrestricted	<u>17,929,547</u>	<u>14,973,307</u>
<b>Total Net Assets</b>	<b><u>82,264,791</u></b>	<b><u>80,569,622</u></b>
<b>Total Liabilities, Deferred Inflows, and Net Assets</b>	<b>\$ <u><u>94,282,133</u></u></b>	<b>\$ <u><u>96,197,936</u></u></b>



City of Duluth  
**Gas Utility Purchase Agreements Payable**  
 December 31, 2024

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2023</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2024</u>
<b>Gas Utility</b>								
Purchase Agreements								
AMR System	\$ 3,094,654	3/28/2008	2/1/2024	\$ 134,672	\$ 0	\$ 0	\$ 134,672	\$ 0
Purchase Agreement Total				\$ 134,672	\$ 0	\$ 0	\$ 134,672	\$ 0
<b>Total Gas Utility Purchase Agreements</b>				<u>\$ 134,672</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 134,672</u>	<u>\$ 0</u>

**Gas Fund**  
**Schedule of Fixed Assets**  
**Year Ending December 31, 2024**

	<u>Balance Jan. 1, 2024</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2024</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 426,078	\$ 0	\$ 0	\$ 426,078	\$ 0	\$ 426,078
Infrastructure	83,579,029	4,324,547	0	87,903,576	27,110,040	60,793,536
Buildings and Structures	2,592,124	0	0	2,592,124	1,280,203	1,311,921
Equipment and Tools	8,367,161	622,036	168,680	8,820,517	7,661,877	1,158,640
Work in Progress	<u>4,236,532</u>	<u>2,006,638</u>	<u>4,337,030</u>	<u>1,906,140</u>	<u>0</u>	<u>1,906,140</u>
<b>Total</b>	<u>\$ 99,200,924</u>	<u>\$ 6,953,221</u>	<u>\$ 4,505,710</u>	<u>\$ 101,648,435</u>	<u>\$ 36,052,120</u>	<u>\$ 65,596,315</u>

## GAS STATISTICS

	2024	2023	2022	2021	2020	2019	2018
Gas sold MCF	5,500,453	6,615,228	6,168,117	5,678,028	5,731,748	5,984,783	5,603,857
Cost of gas sold	\$ 20,308,825	\$ 23,994,788	\$ 36,775,067	\$ 25,527,796	\$ 19,293,616	\$ 20,067,111	\$ 20,731,398
Cost per MCF sold	\$ 3.6922	\$ 3.6272	\$ 5.9621	\$ 4.4959	\$ 3.3661	\$ 3.3530	\$ 3.6995
Other operating costs, including maintenance(*)	\$ 13,589,415	\$ 10,803,746	\$ 9,538,972	\$ 8,337,025	\$ 9,274,230	\$ 9,942,276	\$ 10,587,922
Cost per MCF sold	\$ 2.4706	\$ 1.6332	\$ 1.5465	\$ 1.4683	\$ 1.6180	\$ 1.6613	\$ 1.8894
Interest charges	\$ 444	\$ 8,472	\$ 18,273	\$ 27,713	\$ 37,042	\$ 46,251	\$ 58,802
Cost per MCF sold	\$ 0.0001	\$ 0.0013	\$ 0.0030	\$ 0.0049	\$ 0.0065	\$ 0.0077	\$ 0.0105
Depreciation charge(**)	\$ 1,484,406	\$ 1,577,748	\$ 1,590,052	\$ 1,563,784	\$ 1,515,571	\$ 1,515,603	\$ 1,491,899
Cost per MCF sold	\$ 0.2699	\$ 0.2385	\$ 0.2578	\$ 0.2754	\$ 0.2644	\$ 0.2532	\$ 0.2662
Total cost per MCF sold	\$ 6.4328	\$ 5.5002	\$ 7.7694	\$ 6.2445	\$ 5.2550	\$ 5.2753	\$ 5.8656
Operating revenue	\$ 36,950,158	\$ 46,126,575	\$ 59,624,571	\$ 40,989,652	\$ 36,442,471	\$ 39,698,821	\$ 39,104,406
per MCF	\$ 6.7177	\$ 6.9728	\$ 9.6666	\$ 7.2190	\$ 6.3580	\$ 6.6333	\$ 6.9781
Gas meters in service	30,622	30,213	30,083	29,794	29,322	29,101	28,505
Gas main miles	573.60	572.40	569.90	565.80	560.50	556.60	553.40
Gas transmission miles	5.30	5.30	5.30	5.30	5.30	5.30	5.30
Gas meters per mile of main	53.39	52.78	52.79	52.66	52.31	52.28	51.51

(\*) Does not include depreciation for the cost of natural gas

(\*\*) Does not include depreciation due to change in Capital Policy

## LENGTH OF GAS MAINS IN FEET

Diameter - Inches	Polyethylene	Steel	Total	Valves
1/2	2,390		2,390	
1	51,963		51,963	74
1 1/4	1	1,701	1,702	19
2	1,965,427	17,218	1,982,645	1,014
3	401,907	3,635	405,542	266
4	3,912	29,709	33,621	69
6	79,683	55,387	135,070	121
8	43,026	130,982	174,008	99
10	5	119,519	119,524	43
12	19,414	9,987	29,401	21
16		92,546	92,546	9
<b>Totals</b>	<b>2,567,728</b>	<b>460,684</b>	<b>3,028,412</b>	<b>1,735</b>

**Total Miles Gas Main                    573.6**

**Added in 2024                                    1.2**

**Pressure Regulators                            34**

**Gas Valves added in 2024                    -8**

Note: Valves used only as plugs on end of mains are not included in the above table.  
Gas main quantities are derived from Geographic Information System.

## GAS UTILITY ACTIVITIES 2024

### UTILITY OPERATIONS

ACTIVITY	WORK COMPLETED
<b>Services and Mains</b>	
Installations	27
Cutoffs	12
Valves inspected and operated	477
Hits	26

### CUSTOMER SERVICE

ACTIVITY	WORK COMPLETED
<b>Service Workorders Completed</b>	
Appliance service	3,206
Furnace cleaning	2,683
Tin shop/venting	484
<b>Meter Truck</b>	
Applications (water & gas)	4,131
Delinquent account service shut off/restore (water & gas)	1,875
Emergency (water & gas)	783
General (water & gas)	13,048
<b>Meter Shop</b>	
Gas meters repaired	48
Gas meters tested	1,292
Plumbing truck orders (water & gas)	342
<b>Other</b>	
Gas leak detection surveys	7,421
Inspect and paint gas meters and risers	6,124

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**Sewer Utility  
Statement of Net Income  
For The Year Ended December 31, 2023 and 2024  
(Unaudited)**

	<b>2023</b>		<b>2024</b>
<b><u>Operating Revenue</u></b>			
General Sewage Revenue	\$ 20,030,217		\$ 20,496,327
Other	165,478		370,189
<b>Total Operating Revenue</b>	<b>\$ 20,195,695</b>		<b>\$ 20,866,516</b>
<b><u>Operating Expense</u></b>			
Director's Office	134,925		118,547
Capital Related Expenses	1,661,992		1,559,462
Utility General Expense	386,895		1,759,230
Engineering	730,046		784,014
Utility Operations	2,127,989		2,250,164
Wastewater Treatment	10,331,542		10,800,956
Inflow and Infiltration	661,634		901,210
Customer Service	465,435		479,526
<b>Total Operating Expense</b>	<b>(16,500,458)</b>		<b>(18,653,109)</b>
<b>Operating Income</b>	<b>3,695,237</b>		<b>2,213,407</b>
<b><u>Other Revenue</u></b>			
Contributed Assets	10,349		4
Gain or Loss on Sale of Fixed Assets	1,288		1,364
Transfer from Clean Water Fund to Cover Restricted Cash	11,300		8,300
Permanent Improvement Fund	38,647		0
Interest Income	18,272		17,658
<b>Total Other Revenue</b>	<b>79,856</b>		<b>27,326</b>
<b><u>Other Expenses and Transfers</u></b>			
Transfer to Other Funds			
Non-Capital Improvements	103,750		112,500
Reimbursement for Janitor Positions	0		36,395
Reimbursement for MIS Programmer	55,800		57,400
Interest on Long Term Debt	17,694		3,206
<b>Total Other Expenses and Transfers</b>	<b>(177,244)</b>		<b>(209,501)</b>
<b>Net Income or Loss</b>	<b>\$ 3,597,849</b>		<b>\$ 2,031,232</b>

**Sewer Utility  
Statement of Net Assets  
For The Year Ending December 31, 2023 and 2024  
(Unaudited)**

	<b>Assets &amp; Deferred Outflows</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Assets</u></b>		
Cash	\$ 7,982,363	\$ 10,486,309
Restricted Cash and Equivalents:		
Construction	527,670	107,900
Accounts Receivable (Net)	1,957,889	1,979,910
Special Assessments	12,914	15,570
Due from Other Funds	38,647	0
Due from Other Governments	154,511	200,350
Inventory	118,458	116,036
Prepays	<u>2,912,476</u>	<u>0</u>
<b>Total Current Assets</b>	<b>\$ 13,704,928</b>	<b>\$ 12,906,075</b>
<b><u>Utility Plant</u></b>		
In Service	92,645,820	92,836,132
Construction	<u>1,174,831</u>	<u>2,080,211</u>
Less Accumulated Depreciation	<u>(27,943,671)</u>	<u>(28,767,588)</u>
<b>Total Utility Plant Assets</b>	<b>65,876,980</b>	<b>66,148,755</b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	<u>62,680</u>	<u>52,313</u>
<b>Total Other Assets</b>	<b>62,680</b>	<b>52,313</b>
<b>Total Assets</b>	<b>79,644,588</b>	<b>79,107,143</b>
<b><u>Deferred Outflows</u></b>		
Deferred Pension Obligation Outflows	377,086	178,876
Deferred OPEB Outflows	<u>1,458,372</u>	<u>4,671,933</u>
<b>Total Deferred Outflows</b>	<b>1,835,458</b>	<b>4,850,809</b>
<b>Total Assets and Deferred Outflows</b>	<b>\$ 81,480,046</b>	<b>\$ 83,957,952</b>



**Sewer Utility  
Statement of Net Assets  
For The Year Ending December 31, 2023 and 2024  
(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 338,913	\$ 93,112
Contracts Payable	567,716	340,201
Notes Payable	75,000	0
Purchase Agreement Payable	126,510	0
Due to Other Funds	42,375	14,636
Due to Other Governments	843,429	923,555
Interest Payable	6,424	1,239
Accrued Salaries Payable	92,521	122,282
Vacations Payable	170,475	202,152
Unearned Revenue	45,178	84,833
Bonds Payable	177,518	75,000
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 2,486,059</b>	<b>\$ 1,857,010</b>
<b><u>Long Term Liabilities</u></b>		
Vacations Payable	29,002	14,358
Pension Liability	1,501,986	944,983
Net OPEB Liability	0	1,559,732
Bonds Payable	75,000	0
Less Unamortized Bond Discount or Premium	1,771	128
<b>Total Long Term Liabilities</b>	<b>1,607,759</b>	<b>2,519,201</b>
<b>Total Liabilities</b>	<b>4,093,818</b>	<b>4,376,211</b>
<b><u>Deferred Inflows</u></b>		
Deferred Pension Obligation Inflows	512,763	677,044
<b>Total Deferred Inflows</b>	<b>512,763</b>	<b>677,044</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	65,421,181	66,073,627
Legal Restricted Assets	527,670	107,900
Unrestricted	10,924,614	12,723,170
<b>Total Net Assets</b>	<b>76,873,465</b>	<b>78,904,697</b>
<b>Total Liabilities, Deferred Inflows, and Net Assets</b>	<b>\$ 81,480,046</b>	<b>\$ 83,957,952</b>

**City of Duluth**  
**Sewer Utility Bonds, Notes, and Purchase Agreements Payable**  
**December 31, 2024**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2023</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2024</u>
<b>Sewer Utility</b>								
Bonds								
Revenue and General Obligation	\$ 1,244,000	2/19/2009	2/1/2024	\$ 102,518	\$ 0	\$ 0	\$ 102,518	\$ 0
Revenue and General Obligation	905,000	12/17/2009	2/1/2025	150,000	0	0	75,000	75,000
Bond Total				\$ 252,518	\$ 0	\$ 0	\$ 177,518	\$ 75,000
Notes								
Public Facilities Authority	\$ 1,255,464	10/29/2014	8/20/2024	\$ 75,000	\$ 0	\$ 0	\$ 75,000	\$ 0
Note Total				\$ 75,000	\$ 0	\$ 0	\$ 75,000	\$ 0
Purchase Agreements								
AMR System	\$ 2,907,099	3/28/2008	2/1/2024	\$ 126,510	\$ 0	\$ 0	\$ 126,510	\$ 0
Purchase Agreement Total				\$ 126,510	\$ 0	\$ 0	\$ 126,510	\$ 0
<b>Total Sewer Utility Bonds, Notes, and Purchase Agreements</b>				<b>\$ 454,028</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 379,028</b>	<b>\$ 75,000</b>

<u>Future Payments:</u>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2025	\$ 75,000	\$ 1,500	\$ 76,500
	\$ 75,000	\$ 1,500	\$ 76,500

**Sewer Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2024**

	<u>Balance Jan. 1, 2024</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2024</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 161,612	\$ 0	\$ 0	\$ 161,612	\$ 0	\$ 161,612
Infrastructure	78,958,701	517,217	0	79,475,918	18,857,921	60,617,997
Buildings and Structures	7,101,150	0	0	7,101,150	4,635,974	2,465,176
Equipment and Tools	6,424,357	364,421	691,326	6,097,452	5,273,693	823,759
Work in Progress	<u>1,174,831</u>	<u>1,425,870</u>	<u>520,490</u>	<u>2,080,211</u>	<u>0</u>	<u>2,080,211</u>
Total	<u>\$ 93,820,651</u>	<u>\$ 2,307,508</u>	<u>\$ 1,211,816</u>	<u>\$ 94,916,343</u>	<u>\$ 28,767,588</u>	<u>\$ 66,148,755</u>

## PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT

	Station GIS Location	Station Type - Year Updated	Daily Flow - Basin No.	Wet Well Capacity	Pump Cap. GPM each unit	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Force Main Discharge GIS Location	Aux. Power Gen. Set No.
1	PS0880001	Triplex Submersible 6/16/2006	305,280 gal. 1	301,397 gal.	1 - 1700 2 - 1700 3 - 1700	KSB	1 - 83 hp 2 - 83 hp 3 - 83 hp	480 3	105	10"	SA0880119	Permanent Onsite 2779-150kW
2	PS0880002	Duplex Submersible 3/18/2009	2,160 gal. 1	927.6 gal.	1 - 23 2 - 23 1 & 2 - 35	Barnes	1 - 2 hp 2 - 2 hp	230 3	1 - 8 2 - 8	3"	SA0880117	All 60 Amp
3	PD0830003	Triplex Submersible 10/19/1999	397,872 gal. 4	N/A	1 - 265 2 - 1200 3 - 1200	KSB	1 - 10 hp 2 - 34 hp 3 - 34 hp	480 3	1 - 15.1 2 - 47.5 3 - 47.5	16"	SD1210001	Permanent Onsite 125kW
4	PS043004	Duplex Submersible 1/20/2006	3,024 gal. 6	927.52 gal.	1 - 100 2 - 100	KSB	1 - 5 hp 2 - 5 hp	208 3	1 - 15.4 2 - 15.4	4"	SW0430011	All 60 Amp
5	PS043005	Simplex Submersible 1970	720 gal. 6	97.3 gal.	1 - 67.42	Myers	1.9 hp	230 1	5.3	3"	SW0430012	
6	PS0410006	Duplex Submersible 8/12/2012	1,106,064 gal. 16	9,313.8 gal.	1 - 3000 2 - 3000 3 - 3000	RJB	50 hp 50 hp 50 hp C/G 5 hp	480 3	1 - 66.7 2 - 66.7 3 - 66.7 6	24"	CH0460269	Permanent #2772 gen set
6SF	PS0410049	Duplex Submersible		8 mg		KSB	1 - 50 hp 2 - 50 hp	480 3	69.4 69.4	24"		Permanent
7	PS1090007	Duplex Submersible 2006	78,048 gal. 16	N/A	1 - 400 2 - 400	KSB	6.5 hp 6.5 hp	208 3	23 23	6"	SA1090003	All 60 Amp
8	PS1090008	Triplex Submersible 2016	228,960 gal. 15	8,863.8 gal.	1 - 808 2 - 808	KSB	83 hp 83 hp 83 hp	480 3	105 105 105	8"	SA1090003	Permanent SG 250kW
9	PS1090009	Duplex Submersible New motors 2011	165,888 gal. 15	3,941 gal.	1 - 800 2 - 800 3 - 800	KSB Grinder	1 - 7.5 hp 2 - 7.5 hp	208 3	26.3 26.3 17	10"	SA1090015	All 60 Amp
10	PS1100010	Duplex Submersible 1996	N/A 15	N/A	1 - 208 2 - 247.1	KSB	1 - 2.4 hp 2 - 2.4 hp	208 3	8.7	4"	SA0009	All 60 Amp

## PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT

	Station GIS Location	Station Type - Year Updated	Daily Flow - Basin No.	Wet Well Capacity	Pump Cap. GPM each unit	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Force Main Discharge GIS Location	Aux. Power Gen. Set No.
11	PS1110011	Duplex Submersible 1996	N/A 15	N/A	1 - 164.4 2 - 161.4	KSB	1 - 2.4 hp 2 - 2.4 hp	208 3	1 - 8.4 2 - 8.4	4"	SA1110002	All 60 Amp
12	PS1110012	Duplex Submersible 1996	80,640 gal. 15		1 - 170 2 - 170 (approx.)	KSB	1 - 2.4 hp 2 - 2.4 hp	208 3	1 - 6.9 2 - 6.9	4"	SA1110013	All 60 Amp
13	PS0400013	Duplex Submersible 1995	N/A 16	N/A	1 - 650 2 - 650 1 & 2 - 710	KSB	1 - 12.8 hp 2 - 12.8 hp	480 3	1 - 29 2 - 29	12"	SW0400031	2765 2767 200 Amp
14	PS0320014	Duplex Submersible 2013	50,976 gal. 18	1,008 gal.	1 - 230 2 - 230	Flygt	1 - 10 hp 2 - 10 hp	208 3	1 - 9.5 2 - 18.5	8"	SA0310022	2766 2770
15	PS0310015	Triplex Wet well Dry well ~1975	248,688 gal. 18	N/A	1 - 2400 2 - 2400 3 - 2400	Chicago	1 - 40 hp 2 - 40 hp 3 - 40 hp	480 3	54	10"	SW0310030	2765 2767 200 Amp
16	PS0300016	Duplex Submersible 2013			1 - 1400 2 - 1400 1 & 2 - 2300	KSB	32 hp 32 hp	480 3	38.9 38.9	10"	SW0300016	2765 2766 200 Amp
17	PS0290017	Duplex Submersible ~1975 2001	243,072 gal. 23	N/A	1 - 1000 2 - 1000 1 & 2 - 1500	KSB	1 - 10 hp 2 - 10 hp	240 3	1 - 32.5 2 - 32.5	8"	SW0290038	2767 2765 200 Amp
18	PS0180018	Duplex Submersible 1996	N/A 26	N/A	1 - 58.56 2 - 54.92 1 & 2 - 85	KSB	1 - 1.75 hp 2 - 1.75 hp	208 3	1 - 6.9 2 - 6.9	6"	SA0180041	All 60 Amp
19	PS1230019	Duplex Submersible 2012	2,880 gal. 28	409 gal.	1 - 124 2 - 104 1 & 2 - 169	Meyers	1 - 2 hp 2 - 2 hp	240 3	1 - 9.0 2 - 9.0	4"	SW1230034	All 60 Amp
20	PS0090020	Duplex Submersible 2004			1 - 360 2 - 360 1 & 2 - 540	KSB	1 - 5 hp 2 - 5 hp	208 30	1 - 17.7		SA0090036	2765 2767 200 Amp
21	PS0020021	Duplex Submersible 2007	3,600 gal. 30	480 gal.	1 - 125 2 - 125	KSB	1 - 10 hp 2 - 10 hp	208 3	1 - 33.4 2 - 30.1	4"	SA0030035	All 60 Amp

## PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT

	Station GIS Location	Station Type - Year Updated	Daily Flow - Basin No.	Wet Well Capacity	Pump Cap. GPM each unit	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Force Main Discharge GIS Location	Aux. Power Gen. Set No.
22	PS0730022	Duplex Submersible  2002	43,344 gal.  33		1 - 180 2 - 135.3  1-2:337.6	KSB	1 - 10 hp 2 - 3.4 hp	240  3	1 - 29.2 2 - 10.1	4"	SA0730023	2765 2767 200 Amp
23	PS0960023	Duplex Submersible  2014	3,168 gal.  11	295.5 gal.	1 - 100 2 - 100 1 & 2 - 118	KSB	1 - 5 hp 2 - 5 hp	240  1	15.4 15.4	4"	SA0960002	All 60 Amp
24	NEW PIER B	Duplex Submersible  2016			1 - 150 2 - 150 1 & 2 - 165	KSB	1 - 5 hp 2 - 5 hp	208  3	17.7 17.7		SA0400052	60 Amp
25	PS1030025	Duplex Submersible  2001	8,352 gal.  11		1 - 200 2 - 200 1 & 2 - 300	KSB	1 - 15 hp 2 - 15 hp	240  3	1 - 52 2 - 52		SA1000001	2767 2765 200 Amp
26	PS0920026	Duplex Submersible  1999	49,680 gal.  5		1 - 200 2 - 200 1 & 2 - 300	KSB	1 - 16.5 2 - 16.5	240  3	1 - 52 2 - 52	4"	SA0860115	2767  2765
27	PS0420027	Duplex Submersible  1984	4,320 gal.  13	145.9 gal.	1 - 46.8 2 - 49.4 1 & 2 - 73	Myers	1 - 2 hp 2 - 2 hp	240  3	1 - 7.5 2 - 7.5	3"	SA0420086	All 60 Amp
28	PS1170028	Duplex Submersible  1998	17,136 gal.  22	N/A	1 - 159 2 - 159	KSB	1 - 3.4 hp 2 - 3.4 hp	240  3	1 - 10.2 2 - 10.2	4"	SA1170006	All 60 Amp
29	PS0470029	Duplex Submersible  2008	5,184 gal.  13	456.3 gal.	1 - 159 2 - 159 1 & 2 - 238	Barnes	1 - 2 hp 2 - 2 hp	240  3	1 - 9 2 - 9	1.25"	SA0470148	All 60 Amp
30	PS0580030	Duplex Submersible  1989	14,112 gal.  20	377.8 gal.	1 - 120.6 2 - 124.6 1 & 2 - 200	Flygt  CP3102	1 - 5 hp 2 - 5 hp	208  3	1 - 9.2 2 - 9.2	6"	SA0580129	All 60 Amp
31	PS0600031	Duplex Submersible  1989	13,104 gal.  21	658.3 gal.	1 - 200.5 2 - 154.3 1 & 2 - 300	Flygt  CP3102	1 - 5 hp 2 - 5 hp	240  3	1 - 13 2 - 13	6"	SA0600032	All 60 Amp
32	PS0600032	Duplex Submersible  1989	5,472 gal.  21	613.4 gal.	1 - 139 2 - 155 1 & 2 - 300	Flygt  CP3102	1 - 5 hp 2 - 5 hp	240  3	1 - 13 2 - 13	4"	SA0600093	All 60 Amp

## PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT

	Station GIS Location	Station Type - Year Updated	Daily Flow - Basin No.	Wet Well Capacity	Pump Cap. GPM each unit	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Force Main Discharge GIS Location	Aux. Power Gen. Set No.	
33	PS1280033	Duplex Submersible 1995	NA	420 gal.	1 - 140 2 - 140 1 & 2 - 210	KSB	1 - 3.25 hp 2 - 3.25 hp	208	1 - 9.8 2 - 9.8	4"	SA0030061	All 60 Amp	
34	PS0560034	Duplex Submersible 1993	NA 20	433.9 gal.	1 - 166 2 - 156 1 & 2 - 249	Flygt CP3127	1 - 10 hp 2 - 10 hp	480 3	1 - 13 1 - 13	4"	SA0560093	2767 2765 200 Amp	
35	PS0630035	Duplex Submersible 2007			1 - 200 2 - 200 1 & 2 - 300	KSB	1 - 7.5 2 - 7.5	208 3	1 - 26.7 2 - 26.7	4"	SA0610012	All 60 Amp	
36	PS0900036	Duplex Submersible 1992	1,152 gal. 11	980 gal.	1 - 195.4 2 - 196.7	Flygt CP3127X	1 - 10 hp 2 - 10 hp	240 3	1 - 26 2 - 26	Twin 4"	SA0900005	2767 2765 200 Amp	
37	PS0420037	Duplex Submersible 1984	3,888 gal. 13	441.4 gal.	1 - 186.5 2 - 191.9	Flygt CP3085	1 - 3 hp 2 - 3 hp	208 3	1 - 10 2 - 10	4"	SA0420080	All 60 Amp	
38	PS1120038	Duplex Submersible	Operated by Facilities Management										
39	PS0150039	Duplex Submersible 2013	20,880 gal. 23	643.2 gal.	1 - 282 2 - 280 1 & 2 - 359	KSB	1 - 5 hp 2 - 5 hp	208 3	1 - 17.7 2 - 17.7	6"	SA0180001	All 60 Amp	
40	PS0330040	Steel shell dry well with 6' concrete wet well	36,864 gal. 18	534.9 gal.	1 - 286.6 2 - 281.5	Fairbanks Morse	1 - 7.5 hp 2 - 7.5 hp	240 3	1 - 22.6 2 - 22.6	8"	SA0320008	All 60 Amp	
41	PS0680041	Duplex Submersible 2002	8,928 gal. 22		1 - 400 2 - 400	KSB	1 - 15 hp 2 - 15 hp	240 3	1 - 43.5 2 - 43.5	6"	SA0680029	2767 2765 200 Amp	
42	PS1320042	Duplex Submersible 1996	NA 22	NA	NA	KSB	1 - 5 hp 2 - 5 hp	480 3	1 - 7.8 2 - 7.8	4" 6"	SD1180032	2767 2765 200 Amp	
43	PS1280143	Duplex Submersible 2000			1 - 187 2 - 189 3 - 200	KSB	1 - 15 hp 2 - 15 hp	240 3	1 - 43.5 2 - 43.5	6"	SA1280001	2767 2765 200 Amp	

## PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT

	Station GIS Location	Station Type - Year Updated	Daily Flow - Basin No.	Wet Well Capacity	Pump Cap. GPM each unit	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Force Main Discharge GIS Location	Aux. Power Gen. Set No.
44	PS0010144	Duplex Submersible  2000			1 - 179 2 - 173 3 - 200	KSB	1 - 10 hp 2 - 10 hp	208  3	29 29	6"	PS1280143	2767  2765 200 Amp
45	PS0880045	Triplex Submersible  2012		2 MG	1 - 2200 2 - 2200 3 - 2200	KSB	1 - 50 hp 2 - 50 hp 3 - 50 hp	480  3	69 69 69	12"	SW0830136	Permanent on site 2778 100kW
46	PS0090046	Duplex Submersible Grinder ~2005				Barnes	1 - 2 hp 2 - 2 hp	240  3	16 16	1.25"	SA0090132	
47	PS0090047	(in Bethany Crisis Shelter) ~2005				Barnes	1 - 1 hp 2 - 1 hp	240  1	9.2 9.2	1.25"	SA0090083	
48	PS0080048	  ~2005				Barnes	1 - 2 hp 2 - 2 hp	208  3	9.2 9.2		SW0080024	60 Amp
49	PS0410049	Duplex Submersible		8 MG		KSB	1 - 50 hp 2 - 50 hp	480  3	69.4 69.4	24"		Permanent 2772
50	PW042001	Storage Basin  2007		1 MG	No Pumps	Gravity In  Gravity Out						
51	PS0430001	Storage Basin  Oct. 2010		3 MG		KSB	1 - 10 hp 2 - 10 hp	208  3	32.7 32.7		SA0930190	Permanent on site 2777
53	PS0060001	Duplex Submersible  2012			1 - 525 2 - 525 1 & 2 - 1100	KSB	1 - 10 hp 2 - 10 hp	208  3	23.2 23.2	6"	SW00800024	2765 2767



## LENGTH OF SANITARY SEWER PIPE IN FEET

### PIPE MATERIAL

Dia. Inches	Force Main	ABS	ACP	BRA	CI/DI	CIPP	CMP	HDPE	PVC	RCP	UNK	VCP	Totals
1	113												113
1 1/4	328												328
1 1/2	1,575												1,575
2	29,166												29,166
3	16,928												16,928
4	25,805				272								26,077
6	13,001		93			202			1,743		176	5,760	20,975
8	9,606	6,057	4,159		11,686	277,489		1,700	489,128	306	1,887	730,904	1,532,922
9						6,910						19,337	26,247
10	5,432		36		3,607	37,620		45	34,143	3,096	638	60,089	144,706
12	4,199		51		1,366	19,818		513	21,684	42,352		37,598	127,581
14					163								163
15						12,267			11,917	30,902		21,280	76,366
16	5,313				286	26		1,000		48			6,673
18				348	79	15,295	919		1,184	10,595		15,666	44,086
20	753			118	12	1,114				466		2,378	4,841
21					111	438			1,095	6,467	7	654	8,772
22				1,677		895						1,221	3,793
24	694			467	1,319	2,480			693	10,137		4,083	19,873
26				479		564				419			1,462
27						659				720		281	1,660
28				1,387									1,387
30				499	304	1,284				2,875			4,962
32						1,885				403			2,288
34						562							562
36				476	3,167	1,288				1,402			6,333
42				467		20		387					874
45				467									467
48				238	35			1,167		625			2,065
55						84							84
UNK	4,213								345	9	593	342	5,502
<b>Total</b>	<b>117,126</b>	<b>6,057</b>	<b>4,339</b>	<b>6,623</b>	<b>22,407</b>	<b>380,900</b>	<b>919</b>	<b>4,812</b>	<b>561,932</b>	<b>110,822</b>	<b>3,301</b>	<b>899,593</b>	<b>2,118,831</b>

Note: The City of Duluth Sanitary Sewer system includes 8,734 manholes.

ABS - Acrylonitrile Butadiene Styrene  
 ACP - Asbestos Cement Pipe  
 BRA - Brick Arch  
 CI/DI - Cast or Ductile Iron

CIPP - Cured in Place Pipe  
 CMP - Corrugated Metal Pipe  
 HDPE - High Density Polyethylene  
 PVC - Polyvinyl Chloride

**Miles of Pipe- 401.3**  
 RCP - Reinforced Concrete Pipe  
 UNK - Unknown  
 VCP - Vitrified Clay Pipe

Note: Pipe quantities are derived from Geographic Information System.

## SANITARY SEWER ACTIVITIES 2024

ACTIVITY	WORK COMPLETED
Sewer calls	159
Cleaning sanitary sewer pipe	418,966
Televising sanitary sewer pipe	60,374
<b>I &amp; I inspections (Inflow and Infiltration Grant Program)</b>	
Homes inspected	1,005
Point of Sale certificates	1,002
Point of Sale waivers	3
Laterals rehabilitated	123
<b>Inspections for connections and disconnections</b>	
Connections	99
Disconnections	10

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**Clean Water Utility  
Statement of Net Income  
For The Year Ended December 31, 2023 and 2024  
(Unaudited)**

	<b>2023</b>		<b>2024</b>
<b><u>Operating Revenue</u></b>			
Charges for Services	\$ <u>1,649,750</u>		\$ <u>1,661,910</u>
<b>Total Operating Revenue</b>	\$ <u>1,649,750</u>		\$ <u>1,661,910</u>
<b><u>Operating Expense</u></b>			
Clean Water Expense	<u>825,315</u>		<u>833,049</u>
<b>Total Operating Expense</b>	<u>(825,315)</u>		<u>(833,049)</u>
<b>Operating Income</b>	<u>824,435</u>		<u>828,861</u>
<b><u>Other Revenue</u></b>			
Interest Income	<u>2,709</u>		<u>2,308</u>
<b>Total Other Revenue</b>	<u>2,709</u>		<u>2,308</u>
<b><u>Other Expenses and Transfers</u></b>			
Transfer to Sewer Fund to Cover Restricted Cash	11,300		8,300
Interest on Long Term Debt	<u>38,003</u>		<u>21,420</u>
<b>Total Other Expenses and Transfers</b>	<u>(49,303)</u>		<u>(29,720)</u>
<b>Net Income or Loss</b>	\$ <u><u>777,841</u></u>		\$ <u><u>801,449</u></u>

**Clean Water Utility  
Statement of Net Assets  
For The Year Ending December 31, 2023 and 2024  
(Unaudited)**

	<b>Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Assets</u></b>		
Cash	\$ 1,076,604	\$ 1,313,228
Accounts Receivable (Net)	<u>171,436</u>	<u>168,600</u>
<b>Total Current Assets</b>	<b>\$ <u>1,248,040</u></b>	<b>\$ <u>1,481,828</u></b>
<b><u>Utility Plant</u></b>		
In Service	<u>40,378,099</u>	<u>40,349,421</u>
Less Accumulated Depreciation	<u>(6,266,530)</u>	<u>(6,804,723)</u>
<b>Total Utility Plant Assets</b>	<b><u>34,111,569</u></b>	<b><u>33,544,698</u></b>
<b>Total Assets</b>	<b>\$ <u><u>35,359,609</u></u></b>	<b>\$ <u><u>35,026,526</u></u></b>

**Clean Water Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 8,341	\$ 16,427
Notes Payable	1,126,000	882,000
Interest Payable	10,093	4,010
Unearned Revenue	4,588	10,535
Bonds Payable	16,482	0
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 1,165,504</b>	<b>\$ 912,972</b>
<b><u>Long Term Liabilities</u></b>		
Notes Payable	882,000	0
<b>Total Long Term Liabilities</b>	<b>882,000</b>	<b>0</b>
<b>Total Liabilities</b>	<b>2,047,504</b>	<b>912,972</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	32,087,087	32,662,698
Unrestricted	1,225,018	1,450,856
<b>Total Net Assets</b>	<b>33,312,105</b>	<b>34,113,554</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 35,359,609</b>	<b>\$ 35,026,526</b>

**City of Duluth  
Clean Water Utility Bonds and Notes Payable  
December 31, 2024**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2023</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2024</u>
<b>Clean Water Utility</b>								
Bonds								
Revenue and General Obligation	\$ 200,000	2/19/2009	2/1/2024	\$ 16,482	\$	\$	\$ 16,482	\$ 0
Bond Total				\$ 16,482	\$ 0	\$ 0	\$ 16,482	\$ 0
Notes								
Public Facilities Authority	\$ 796,835	8/20/2009	8/20/2024	\$ 62,000	\$	\$	\$ 62,000	\$ 0
Public Facilities Authority	2,414,150	11/25/2009	8/20/2024	194,000			194,000	0
Public Facilities Authority	3,753,059	7/28/2010	8/20/2025	542,000			269,000	273,000
Public Facilities Authority	8,504,224	7/28/2010	8/20/2025	1,210,000			601,000	609,000
Note Total				\$ 2,008,000	\$ 0	\$ 0	\$ 1,126,000	\$ 882,000
<b>Total Clean Water Utility Bonds and Notes</b>				<u>\$ 2,024,482</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 1,126,000</u>	<u>\$ 882,000</u>

<b>Future Payments:</b>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2025	\$ 882,000	\$ 11,096	\$ 893,096
	\$ 882,000	\$ 11,096	\$ 893,096

**Clean Water Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2024**

	<u>Balance Jan. 1, 2024</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2024</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 525,000	\$ 0	\$ 0	\$ 525,000	\$ 0	\$ 525,000
Infrastructure	39,680,981	0	0	39,680,981	6,661,283	33,019,698
Equipment and Tools	172,118	0	0	172,118	172,118	0
Work in Progress	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>Total</b>	<u>\$ 40,378,099</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 40,378,099</u>	<u>\$ 6,833,401</u>	<u>\$ 33,544,698</u>



# **STORMWATER**

**Stormwater Utility**  
**Statement of Net Income**  
**For The Year Ended December 31, 2023 and 2024**  
**(Unaudited)**

	2023	2024
<b><u>Operating Revenue</u></b>		
Stormwater Charges	\$ 7,586,378	\$ 8,539,602
Other	56,844	84,962
<b>Total Operating Revenue</b>	<b>\$ 7,643,222</b>	<b>\$ 8,624,564</b>
<b><u>Operating Expense</u></b>		
Director's Office	135,467	115,710
Capital Related Expenses	843,819	606,327
Utility General Expense	758,484	1,384,748
Engineering	867,410	1,050,824
Utility Operations	2,014,580	1,699,263
Customer Service	311,841	325,530
<b>Total Operating Expense</b>	<b>(4,931,601)</b>	<b>(5,182,402)</b>
<b>Operating Income</b>	<b>2,711,621</b>	<b>3,442,162</b>
<b><u>Other Revenue</u></b>		
Grants Non-Capital	79,481	10,223
Gain or Loss on Sale of Fixed Assets	0	(2,548)
Contributed Assets	24,327	0
Transfer from Other Funds		
Permanent Improvement Fund	70,618	0
Interest Income	17,937	16,830
<b>Total Other Revenue</b>	<b>192,363</b>	<b>24,505</b>
<b><u>Other Expenses and Transfers</u></b>		
Transfer to Other Funds		
Non-Capital Improvements	41,500	45,000
Street Sweeping	450,000	450,000
Reimbursement for Janitor Positions	0	36,395
Reimbursement for MIS Programmer	55,900	57,400
Reimbursement for Legal Services	0	80,773
<b>Total Other Expenses and Transfers</b>	<b>(547,400)</b>	<b>(669,568)</b>
<b>Net Income or Loss</b>	<b>\$ 2,356,584</b>	<b>\$ 2,797,099</b>

**Stormwater Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Assets &amp; Deferred Outflows</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Assets</u></b>		
Cash	\$ 7,412,518	\$ 8,690,073
Accounts Receivable	802,163	880,784
Special Assessments	25,075	34,046
Due from Other Funds	74,863	2,151
Inventory	130,204	127,971
Prepays	<u>1,728,820</u>	<u>0</u>
<b>Total Current Assets</b>	<b>\$ <u>10,173,643</u></b>	<b>\$ <u>9,735,025</u></b>
<b><u>Utility Plant</u></b>		
In Service	25,882,217	26,618,206
Construction	<u>1,146,901</u>	<u>2,594,377</u>
Less Accumulated Depreciation	<u>(6,157,498)</u>	<u>(6,352,099)</u>
<b>Total Utility Plant Assets</b>	<b><u>20,871,620</u></b>	<b><u>22,860,484</u></b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	<u>1,383</u>	<u>0</u>
<b>Total Other Assets</b>	<b><u>1,383</u></b>	<b><u>0</u></b>
<b>Total Assets</b>	<b><u>31,046,646</u></b>	<b><u>32,595,509</u></b>
<b><u>Deferred Outflows</u></b>		
Deferred Pension Obligation Outflows	311,808	154,790
Deferred OPEB Outflows	<u>771,148</u>	<u>2,661,348</u>
<b>Total Deferred Outflows</b>	<b><u>1,082,956</u></b>	<b><u>2,816,138</u></b>
<b>Total Assets and Deferred Outflows</b>	<b>\$ <u><u>32,129,602</u></u></b>	<b>\$ <u><u>35,411,647</u></u></b>

**Stormwater Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2023 and 2024**  
**(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2023</b>	<b>2024</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 59,250	\$ 44,128
Contracts Payable	103,652	107,344
Due to Other Funds	134,698	10,640
Due to Other Governments	439	805
Accrued Salaries Payable	86,165	91,153
Vacations Payable	173,146	128,117
Unearned Revenue	39,914	63,620
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 597,264</b>	<b>\$ 445,807</b>
<b><u>Long Term Liabilities</u></b>		
Vacations Payable	0	30,227
Pension Liability	1,241,975	817,735
Net OPEB Liability	0	868,538
<b>Total Long Term Liabilities</b>	<b>1,241,975</b>	<b>1,716,500</b>
<b>Total Liabilities</b>	<b>1,839,239</b>	<b>2,162,307</b>
<b><u>Deferred Inflows</u></b>		
Deferred Pension Obligation Inflows	423,998	585,876
<b>Total Deferred Inflows</b>	<b>423,998</b>	<b>585,876</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	20,871,620	22,860,484
Unrestricted	8,994,745	9,802,980
<b>Total Net Assets</b>	<b>29,866,365</b>	<b>32,663,464</b>
<b>Total Liabilities, Deferred Inflows, and Net Assets</b>	<b>\$ 32,129,602</b>	<b>\$ 35,411,647</b>

**Stormwater Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2024**

	<u>Balance Jan. 1, 2024</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2024</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 13,743	\$ 0	\$ 0	\$ 13,743	\$ 0	\$ 13,743
Infrastructure	22,118,351	611,170	0	22,729,521	3,782,132	18,947,389
Buildings and Structures	1,401,897	0	0	1,401,897	574,778	827,119
Equipment and Tools	2,348,226	363,160	238,341	2,473,045	1,995,189	477,856
Work in Progress	<u>1,146,901</u>	<u>2,137,179</u>	<u>689,703</u>	<u>2,594,377</u>	<u>0</u>	<u>2,594,377</u>
<b>Total</b>	<u>\$ 27,029,118</u>	<u>\$ 3,111,509</u>	<u>\$ 928,044</u>	<u>\$ 29,212,583</u>	<u>\$ 6,352,099</u>	<u>\$ 22,860,484</u>

## PUMPING STATIONS - STORMWATER PUMPING EQUIPMENT

	Station Location	Station Type - Year Updated	Pump G.P.M.	Pump Mfg.	Motor HP	Motor Voltage - Phase	Motor F.L.A.	Force Main Size	Discharge Location
1	1801 Minnesota Ave.	Simplex Submersible  1980	760	Flygt CP-3101	5	230  3	13.4	6"	AP1100004
2	13th St. S & St. Louis Ave.	Simplex Submersible  1984	750	Hydromatic S6L	3	230  3	14	6"	AP1090017

## LENGTH OF STORM SEWERS IN FEET

Dia. Inch.	BR	CMP/STL	CPD	CI/DI	HDPE	NCP	PPC	PVC	RCP	STN	TMP	TP	VCP	UNK	Totals
2								72.86					21.80		94.66
3					4.70			4.90				840.33			849.94
4			35,773.73					507,250.90	1,033.59			237.24		140,860.79	685,156.25
6		2,735.94	211.26	171.72	249.35			23,786.81	75.94			245.15	3,380.08	17,638.64	48,494.91
8		1,096.09	2,738.67	455.31	379.67	48.40		19,255.59	592.52			117.24	767.62	4,555.64	30,006.75
10		4,379.84	63.23	601.32	59.36		64.35	5,549.95	12,625.75				3,552.22	16,141.52	43,037.53
12		39,601.18	12,775.27	1,127.37	31,383.37	779.08		24,902.50	397,613.73				4,026.67	56,832.13	569,041.31
13									46.83						46.83
14				38.02					232.57					300.67	571.26
15		8,421.03	476.01		11,909.74	170.58		3,713.00	172,142.01				2,583.41	31,618.22	231,034.00
16		89.20		502.02	589.62				212.51					781.32	2,174.68
17														91.31	91.31
18		7,219.25	792.49		6,331.98	50.27		3,957.13	109,354.47				1,651.78	22,270.28	151,627.65
20		50.42		90.08	198.37				894.69					2,646.04	3,879.61
21		337.58		83.63				49.33	36,790.67				1,719.34	3,488.61	42,469.16
22								206.85	937.08						1,143.94
24	276.91	3,316.66	197.85	237.80	4,148.25			667.00	78,163.31	160.14			1,344.51	13,731.60	102,244.03
26	2,584.39				160.34			47.62	3,677.47					11,046.86	17,516.68
27	75.31	50.05			28.22		84.17		14,643.68					928.61	15,810.05
28	1,134.66	119.46							3,591.90					1,448.92	6,294.94
29									335.57						335.57
30	154.58	1,022.46	50.58		2,481.75				38,487.27		143.47			5,221.33	47,561.44
31									132.89						132.89
32	581.77				23.53				2,454.79					387.21	3,447.29
33									711.15						711.15
34							45.39		621.53					288.53	955.45
36	185.87	1,614.54	231.69		1,171.19		475.62		32,804.52					7,342.29	43,825.72
38							42.66		85.45						128.11
40									724.52	659.05				56.27	1,439.84
42	200.35	134.37		103.10	46.28		241.71		10,567.06				84.63	141.00	11,518.50
44		138.63							3,702.56					385.20	4,226.39
45							110.60		331.20						441.80
46					45.98									72.02	118.00
48	68.65	1,239.85		98.87	265.42		731.08	54.98	18,119.53	948.80	78.30			3,388.28	24,993.77
50	239.81								283.92					17.06	540.79

## LENGTH OF STORM SEWERS IN FEET

Dia. Inch.	BR	CMP/STL	CPD	CI/DI	HDPE	NCP	PPC	PVC	RCP	STN	TMP	TP	VCP	UNK	Totals
51									1,019.20						1,019.20
52									448.03						448.03
54	94.06						116.92		10,443.47					2,547.76	13,202.21
55							84.00								84.00
56									89.10	57.60				65.30	212.00
58									54.43						54.43
60	36.26	846.09				27.59	364.27		4,173.54	366.30				1,552.88	7,366.94
62									112.05					57.83	169.88
66		109.83							631.54	69.79				264.74	1,075.89
68							57.53								57.53
72		517.18					483.04		2,309.94	1,523.33				400.79	5,234.28
73														79.34	79.34
78									398.57						398.57
84	203.01	411.39					111.55	138.30	658.21	1,540.48					3,062.94
88									128.30						128.30
96		106.32							756.60	128.73				223.73	1,215.38
108									608.49						608.49
120									748.23	368.26				258.42	1,374.91
122									54.02						54.02
128	105.29	57.77							58.68	726.38				551.82	1,499.94
132									170.24						170.24
144									127.41						127.41
192									49.22						49.22
UNK	665.77	668.18	82.61		142.16		1,352.04	2,175.26	6,533.49	192.70			74.61	90,098.33	101,985.15
<b>Totals</b>	<b>6,606.70</b>	<b>74,283.30</b>	<b>53,393.40</b>	<b>3,509.24</b>	<b>59,619.28</b>	<b>1,075.93</b>	<b>4,364.94</b>	<b>591,832.99</b>	<b>971,563.43</b>	<b>6,741.56</b>	<b>221.78</b>	<b>1,439.96</b>	<b>19,206.68</b>	<b>437,781.31</b>	<b>2,231,640.52</b>

Note: The Storm Sewer system also includes 11,331 catch basins and 5,239 manholes.

**Miles of Pipe 422.7**

Pipe quantities are derived from Geographic Information System.

BR - Brick  
 CMP/STL - Corrugated Metal (iron or steel)/Steel  
 CPD - Corrugated Polyethylene Drainage Pipe  
 CI/DI - Cast or Ductile Iron  
 HDPE - High Density Polyethylene

NCP - Non-Reinforced Concrete Perforated Pipe  
 PPC - Pour-in-Place Concrete  
 PVC - Polyvinyl Chloride  
 RCP - Reinforced Concrete  
 STN - Stone

TMP - Timber Pipe  
 TP - Thermoplastic  
 VCP - Vitrified Clay Pipe  
 UNK - Unknown



## DULUTH CREEKS AND STREAMS

Creek or Stream	Drainage Area (square miles)
Amity	16.60
58th Ave E	0.59
50th Ave E	0.63
47th Ave E	0.36
43rd Ave E	0.59
40th Ave E	0.45
38th Ave E	0.03
37th Ave E	0.13
34th Ave E	0.53
Tischer	7.30
Chester	7.30
Oregon	0.85
Brewery	1.66
Greys	0.63
Clarkhouse	1.00
Buckingham	1.10
Miller	9.70
Coffee	1.76
Merritt	2.30
32nd Ave W	0.73
41st Ave W	0.36
Keene	6.40

Creek or Stream	Drainage Area (square miles)
44th Ave W	0.78
49th Ave W	0.80
62nd Ave W	0.90
Kingsbury	8.60
68th Ave W	0.15
79th Ave W	0.14
82nd Ave W	0.26
Knowlton	1.56
84th Ave W	0.23
86th Ave W	0.08
Gogebic Street	0.34
Lenroot Street	0.61
Stewart Street	1.97
Morgan Park	1.31
U. S. Steel	2.70
Gary Street	0.33
Bowser Street	0.08
Heard Street	0.06
Sargent	3.30
Fond du Lac	0.58
Mission	10.30
Lester River	35.60

## MPCA MS4 CREEK DATA

MS4 Discharge Waterbodies	Water Quality Status	Cause of Impairment	TMDL Development Status	Other
Lake Superior	ORVW Impaired	Mercury (fish tissue) PCB (fish tissue)	NE Mercury TMDL Region	Restricted Discharge Area
St Louis River	Impaired	Mercury (fish tissue and water column) PCB (fish tissue and water column) DDT Dieldrin Dioxin Toxaphene Fecal Coliform Aquatic Macroinvertebrate Bioassessments	TMDL Approved	Area of Concern & Protected Water
Amity Creek	Impaired	Total Suspended Solids	TMDL Approved	Trout stream
E Br Amity	Impaired	Total Suspended Solids	TMDL Approved	Trout stream
Lester River	Impaired	Mercury (water column) Mercury (fish tissue) Total Suspended Solids	TMDL Approved TMDL Approved TMDL Approved	Trout stream
Lester River Beach				
Twin Ponds	Impaired	PCB (fish tissue)- Upper Twin	Not started	Trout stream
Buckingham Creek	(Upper Twin Ponds)	Mercury (fish tissue)- South Twin	Not started	
Miller Creek	Impaired	Temperature Lack of coldwater assemblage Aquatic Macroinvertebrates E. coli Chloride PFOS	TMDL Approved*** TMDL in process** TMDL in process** TMDL Approved TMDL in process**	Trout stream
Chester Creek	Impaired Impaired	Mercury E. coli Chloride	Not started TMDL Approved TMDL in process**	Trout stream Beach TMDL
Keene Creek	Impaired	E. coli Chloride	TMDL Approved TMDL in process**	Trout stream
Kingsbury Creek	Impaired	Fish Bioassessment, Aquatic Macroinvertebrates Total Suspended Solids Chloride	Related to TSS TDML TMDL Approved TMDL in process**	Trout stream, Related to TSS
Mission Creek				Trout stream
Sargent Creek	Impaired	E. coli PFOS	TMDL Approved	Trout stream, Beach TMDL
Boy Scout Boat Launch	Impaired	E. coli	TMDL Approved	Related to Sargent Creek

## MPCA MS4 CREEK DATA

MS4 Discharge Waterbodies	Water Quality Status	Cause of Impairment	TMDL Development Status	Other
Stewart Creek	Impaired	E. coli	TMDL Approved	Trout stream, Beach TMDL
Clyde Ave Boat Launch	Impaired	E. coli	Draft TMDL/Temp Deferred	Related to Stewart Creek
Tischer Creek	Impaired	E. coli	TMDL Approved	Trout stream
Brighton Beach				
58th Ave E				
50th Ave E				
47th Ave E				
43rd Ave E				
42nd Ave E Beach				
38th Ave E				
37th Ave E				
34th Ave E				
Oregon				
Brewery				
Greys				
Clarkhouse				
Coffee	High-Risk for Impairment	Chloride	Data suggests TMDL pending	Trout stream
Merritt	Impaired	E. coli	TMDL Approved	Trout stream
Lakewalk/16th Ave Beach				
Leif Erickson Beach	Impaired	E. coli	TMDL Approved	Related to Chester Creek
Lakewalk/2nd Ave Beach				
13th St S Beach (Lake)				
15th St S Beach (Harbor)	Impaired	E. coli	TMDL Approved	
20th St S Beach (Harbor)	Impaired	E. coli	TMDL Approved	
Lafayette Com Club Beach				
Park Point Beach House				
Sky Harbor Beach (Harbor)	Impaired	E. coli	TMDL Approved	
32nd Ave W				
41st Ave W				
44th Ave W				
49th Ave W				
62nd Ave W				
68th Ave W				
79th Ave W				
82nd Ave W				
Knowlton				Trout stream

## MPCA MS4 CREEK DATA

MS4 Discharge Waterbodies	Water Quality Status	Cause of Impairment	TMDL Development Status	Other
84th Ave W				
85th Ave W				
Gogebic St				
Lenroot St				
Morgan Park				
U.S. Steel				
Gary St				
Bowser				
Heard St				

\*Not listed as underway in the MPCA status file:

<http://www.pca.state.mn.us/index.php/water/water-types-and-programs/minnesotas-impaired-waters-and-tmdls/impaired-waters-list.html>

\*\*Expected to be completed by 2025.

\*\*\* TMDL Implmentation and Reporting Required for MS4 Program Compliance

## STORMWATER UTILITY ACTIVITIES 2024

ACTIVITY	WORK COMPLETED
Catch basin repair or rehab	34
Construction site inspections completed	459
Culverts repaired or replaced	53
Ditch line (dug or repaired and seeded or sodded)	2,205 Linear Feet
Illicit discharges detected and removed	8
Line flushing/cleaning	10,370
Manhole repair or rehab	17
Outfalls inspected	60
Sediment trap cleaning	72
Structural sedimentation basins inspected	72
Televising storm sewer pipe	9,535
Presentations	17
Radio, television, and newspaper articles	597,000 Total Reach for Stormwater Outreach