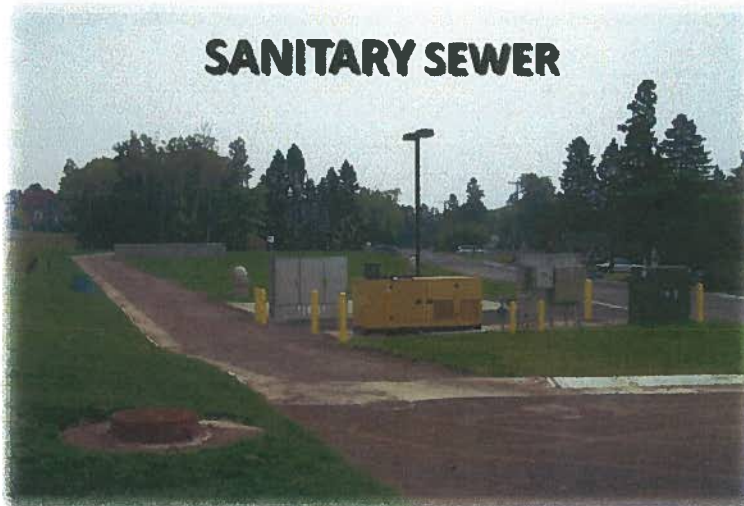
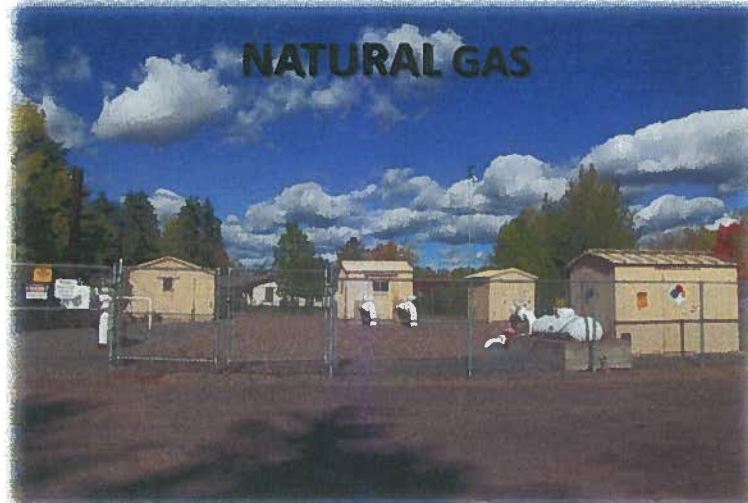


# CITY OF DULUTH



**Public Works & Utilities Department  
2010 Annual Report**

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Front cover photos:  
 Upper left- Pipes in Arlington Pump Station  
 Upper right- Town Border Station 1A  
 Lower left- Lift Station #45 & storage tank  
 Lower right- Erosion control

# OFFICERS OF THE DEPARTMENT

Mayor ..... Don Ness  
Chief Administrative Officer ..... Dave Montgomery

City Council Public Works & Utilities Committee  
    Councilor Jay Fosle

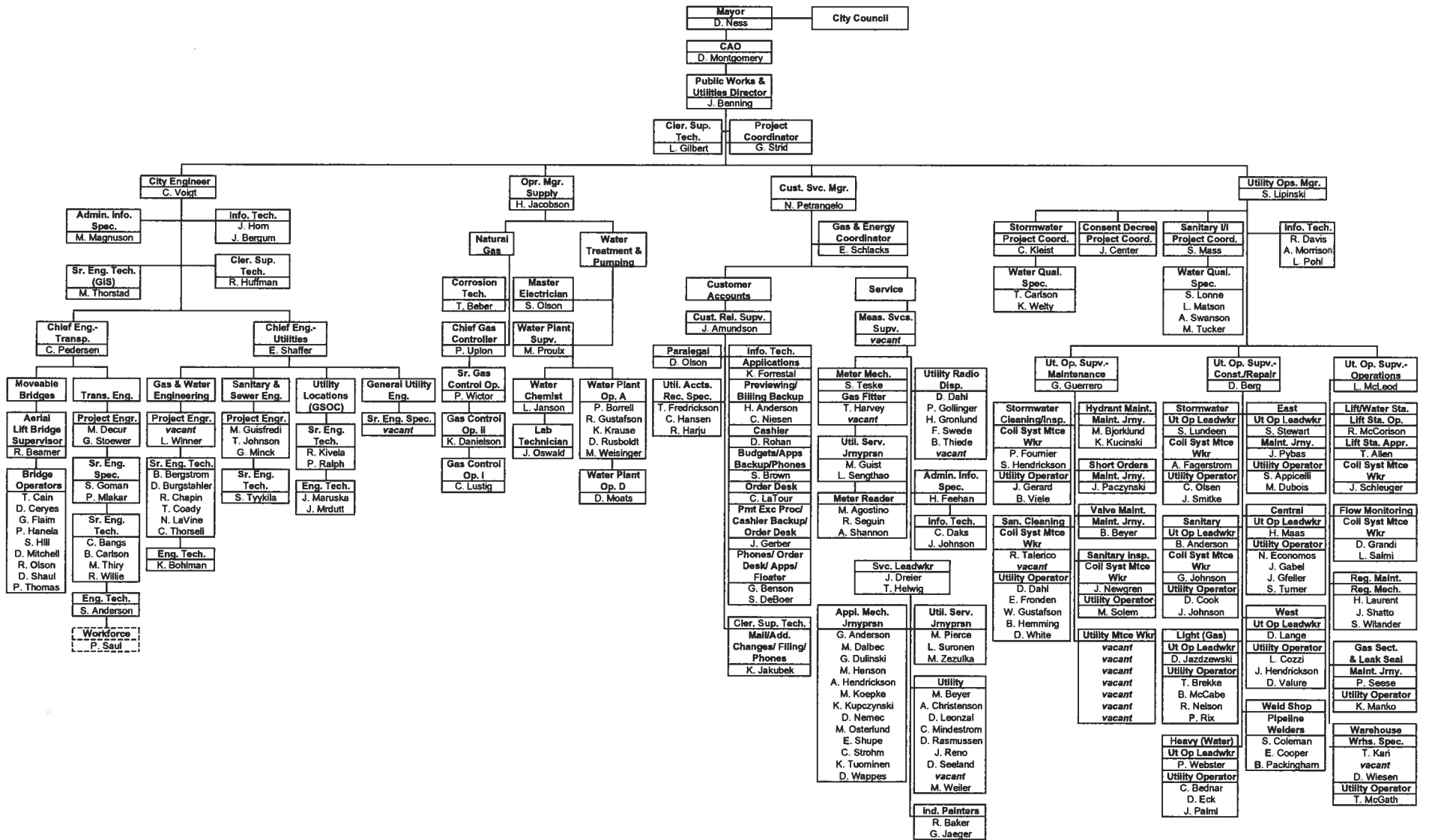
Duluth Public Utilities Commission

John Bruggeman	Councilor Patrick Boyle
Patrick Huston, Vice President	Councilor Jay Fosle
Jennifer Julsrud, President	Councilor Daniel Hartman
Linda Sellner	

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

Director ..... Jim Benning  
City Engineer ..... Cindy Voigt  
Manager, Customer Service ..... Nick Petrangelo  
Manager, Utility Operations ..... Steve Lipinski  
Operations Manager, Water & Gas Supply ..... Howard Jacobson  
Chief Engineer, Utilities ..... Eric Shaffer  
Safety & Training Officer ..... Julie Baker  
Accounting ..... Ken Taylor,  
Maureen Langguth

# CITY OF DULUTH PUBLIC WORKS & UTILITIES DEPARTMENT 2010



**W  
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**Water Utility**  
**Statement of Net Income**  
**For The Year Ended December 31, 2009 and 2010**  
**(Unaudited)**

	<b>2009</b>	<b>2010</b>
<b><u>Operating Revenue</u></b>		
Metered Water Sales	\$ 11,701,062	\$ 11,745,982
Other	<u>243,934</u>	<u>260,524</u>
<b>Total Operating Revenue</b>	<b>\$ <u>11,944,996</u></b>	<b>\$ <u>12,006,506</u></b>
<b><u>Operating Expense</u></b>		
Director's Office	60,713	58,447
Capital Related Expenses	1,328,840	1,420,392
Utility General Expense	2,083,325	2,232,128
Engineering	224,523	375,596
Utility Operations	2,524,013	2,800,911
Water Treatment and Pumping	2,802,645	2,485,622
Customer Service	<u>1,478,969</u>	<u>1,316,810</u>
<b>Total Operating Expense</b>	<b><u>(10,503,028)</u></b>	<b><u>(10,689,906)</u></b>
<b>Operating Income</b>	<b><u>1,441,968</u></b>	<b><u>1,316,600</u></b>
<b><u>Other Revenue</u></b>		
Grants Non-Capital	0	1,250
Contributed Capital	21,822	360
Gain or Loss on the Sale of Fixed Assets	8,601	2,828
Intergovernmental	16,919	16,919
Interest Income	<u>52,435</u>	<u>38,627</u>
<b>Total Other Revenue</b>	<b><u>99,777</u></b>	<b><u>59,984</u></b>
<b><u>Other Expenses and Transfers</u></b>		
Transfer to Other Funds		
Investing Activities	26,732	22,021
Non-Capital Improvements	291,400	337,626
Interest on Long Term Debt	<u>297,249</u>	<u>304,164</u>
<b>Total Other Expenses and Transfers</b>	<b><u>(615,381)</u></b>	<b><u>(663,811)</u></b>
<b>Net Income or Loss</b>	<b>\$ <u><u>926,364</u></u></b>	<b>\$ <u><u>712,773</u></u></b>

**Water Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2009 and 2010**  
**(Unaudited)**

	<b>Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Assets</u></b>		
Cash	\$ 2,106,624	\$ 1,804,178
Restricted Cash and Equivalents:		
Minnesota Water Connection Fees	89,040	89,040
Accounts Receivable (Net)	1,157,907	1,168,357
Special Assessments	78,870	67,630
Due from Other Funds	82,497	85,184
Due from Other Governments	65,694	775,732
Inventory	786,893	833,478
<b>Total Current Assets</b>	<b>\$ 4,367,525</b>	<b>\$ 4,823,599</b>
<b><u>Utility Plant</u></b>		
In Service	67,626,235	68,368,255
Construction	2,044,462	5,042,079
Less Accumulated Depreciation	(28,258,775)	(29,559,635)
<b>Total Utility Plant Assets</b>	<b>41,411,922</b>	<b>43,850,699</b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	282,079	211,274
Issuance Costs	38,943	59,379
<b>Total Other Assets</b>	<b>321,022</b>	<b>270,653</b>
<b>Total Assets</b>	<b>\$ 46,100,469</b>	<b>\$ 48,944,951</b>



**Water Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 232,795	\$ 215,922
Contracts Payable	143,850	922,011
Notes Payable	345,955	543,217
Leases Payable	106,910	182,061
Due to Other Funds	1,150,417	1,655,441
Due to Other Governments	148,566	146,467
Accrued Interest Payable	137,494	105,690
Accrued Salaries Payable	121,234	153,670
Vacations Payable	216,196	235,036
Deferred Revenue	452,407	104,949
Customer Deposits	10,000	10,000
Bonds Payable	460,000	186,000
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 3,525,824</b>	<b>\$ 4,460,464</b>
<b><u>Long Term Liabilities</u></b>		
Notes Payable	1,996,408	3,882,049
Vacations Payable	21,328	15,574
Leases Payable	3,141,048	2,958,988
Net Other Post Employment Benefits	347,551	245,893
Bonds Payable	3,737,000	3,315,000
Less Unamortized Bond Discount or Premium	(12,108)	10,792
<b>Total Long Term Liabilities</b>	<b>9,231,227</b>	<b>10,428,296</b>
<b>Total Liabilities</b>	<b>12,757,051</b>	<b>14,888,760</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	31,675,652	32,831,971
Unrestricted	1,667,766	1,224,220
<b>Total Net Assets</b>	<b>33,343,418</b>	<b>34,056,191</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 46,100,469</b>	<b>\$ 48,944,951</b>



**City of Duluth**  
**Water Utility Bonds, Notes and Capital Leases Payable**  
**December 31, 2010**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2009</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2010</u>
<b>Water Utility Bonds</b>								
Revenue and General Obligation	\$ 1,690,000	9/1/2002	2/1/2018	\$ 1,131,000	\$ 0	\$ 0	\$ 1,131,000	\$ 0
Revenue and General Obligation	1,385,000	12/1/2002	2/1/2018	920,000	0	0	920,000	0
Revenue and General Obligation Refunding	625,000	3/1/2003	2/1/2010	95,000	0	0	95,000	0
Revenue and General Obligation	1,120,000	12/19/2006	2/1/2022	1,010,000	0	0	60,000	950,000
Revenue and General Obligation Refunding	950,000	12/13/2007	2/1/2016	845,000	0	0	105,000	740,000
Revenue and General Obligation	196,000	2/19/2009	2/1/2024	196,000	0	0	10,000	186,000
Revenue and General Obligation Refunding	1,625,000	11/23/2010	2/1/2018	0	1,625,000	0	0	1,625,000
<b>Bond Total</b>				<b>\$ 4,197,000</b>	<b>\$ 1,625,000</b>	<b>\$ 0</b>	<b>\$ 2,321,000</b>	<b>\$ 3,501,000</b>
<b>Notes</b>								
Public Facilities Authority	\$ 870,000	8/25/2003	8/20/2018	\$ 573,124	\$ 0	\$ 0	\$ 56,505	\$ 516,619
Public Facilities Authority	1,971,532	7/2/2004	8/20/2018	1,289,000	0	0	129,000	1,160,000
Public Facilities Authority	1,698,450	10/28/2009	8/20/2019	480,239	0	1,188,574	160,450	1,508,363
Public Facilities Authority	1,371,653	8/31/2010	8/20/2025	0	0	532,514	0	532,514
Public Facilities Authority	3,534,265	8/31/2010	8/20/2025	0	0	707,770	0	707,770
<b>Note Total</b>				<b>\$ 2,342,363</b>	<b>\$ 0</b>	<b>\$ 2,428,858</b>	<b>\$ 345,955</b>	<b>\$ 4,425,266</b>
<b>Capital Leases</b>								
AMR System	\$ 3,443,490	7/12/2007	2/1/2024	\$ 3,247,958	\$ 0	\$ 0	\$ 106,909	\$ 3,141,049
<b>Capital Lease Total</b>				<b>\$ 3,247,958</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 106,909</b>	<b>\$ 3,141,049</b>
<b>Total Water Utility Bonds, Notes and Capital Leases</b>				<b>\$ 9,787,321</b>	<b>\$ 1,625,000</b>	<b>\$ 2,428,858</b>	<b>\$ 2,773,864</b>	<b>\$ 11,067,315</b>

<b>Future Payments:</b>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2011	\$ 911,278	\$ 289,788	\$ 1,201,066
2012	1,264,119	314,236	1,578,355
2013	1,308,145	284,786	1,592,931
2014	1,331,447	254,382	1,585,829
2015	1,371,037	223,063	1,594,100
2016	1,398,925	190,709	1,589,634
2017	1,295,123	158,962	1,454,085
2018	1,323,642	127,776	1,451,418
2019	861,846	99,502	961,348
2020	702,251	80,328	782,579
2021	721,017	62,377	783,394
2022	735,157	43,831	778,988
2023	655,683	28,767	684,450
2024	520,915	11,212	532,127
2025	362,000	4,077	366,077
	<b>\$ 14,762,585</b>	<b>\$ 2,171,796</b>	<b>\$ 16,934,381</b>

**Water Fund**  
**Schedule of Fixed Assets**  
**Year Ending December 31, 2010**

	<u>Balance Jan. 1, 2010</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2010</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 203,700	\$ 0	\$ 0	\$ 203,700	\$ 0	\$ 203,700
Infrastructure	42,752,529	693,974	0	43,446,503	14,554,328	28,892,175
Buildings and Structures	17,204,020	0	0	17,204,020	11,372,631	5,831,389
Equipment and Tools	7,465,986	161,976	113,930	7,514,032	3,632,676	3,881,356
Work in Progress	<u>2,044,462</u>	<u>3,700,479</u>	<u>702,862</u>	<u>5,042,079</u>	<u>0</u>	<u>5,042,079</u>
<b>Total</b>	<u>\$ 69,670,697</u>	<u>\$ 4,556,429</u>	<u>\$ 816,792</u>	<u>\$ 73,410,334</u>	<u>\$ 29,559,635</u>	<u>\$ 43,850,699</u>

## COMPARATIVE STATEMENT, OPERATING EXPENSE OF ALL STATIONS, YEARS 2009 AND 2010

Station	Year	Daily Average Gallons Pumped, Initial Supply	Gallons Pumped	K.W.H. Consumed	Electricity
Lakewood	2010	15,844,959	5,783,410,000	<b>9,139,200</b>	\$ 597,290
	2009	16,973,333	6,201,670,000	<b>9,110,850</b>	\$ 537,514
Middle	2010		1,051,100,000	1,409,200	\$ 109,525
	2009		1,432,301,000	1,394,800	\$ 95,398
Woodland	2010		589,005,000	<b>1,639,200</b>	\$ 128,857
	2009		606,300,000	<b>1,780,200</b>	\$ 118,041
West Duluth	2010		2,597,950,000	640,521	\$ 51,639
	2009		2,693,490,000	606,528	\$ 43,104
Orphanage	2010		121,507,000	<b>72,640</b>	\$ 7,633
	2009		170,160,000	<b>72,000</b>	\$ 6,431
Highland	2010		447,170,000	336,000	\$ 27,615
	2009		471,673,000	348,480	\$ 24,293
Arlington	2010		699,010,000	<b>714,112</b>	\$ 58,265
	2009		730,401,000	<b>784,960</b>	\$ 53,332
Lakeside	2010		61,721,000	69,090	\$ 10,035
	2009		68,002,000	76,240	\$ 9,118
Bay View	2010		201,437,000	<b>253,120</b>	\$ 25,892
	2009		240,327,000	<b>233,600</b>	\$ 20,500
Proctor	2010		127,914,000	253,760	\$ 23,425
	2009		170,041,000	277,120	\$ 19,523
Airport	2010		unmetered	6144	\$ 1,657
	2009		unmetered	N/A	\$ 1,161
<b>TOTALS</b>	<b>2010</b>	<b>15,844,959</b>	<b>11,680,224,000</b>	<b>14,526,843</b>	<b>\$ 1,041,833</b>
	<b>2009</b>	<b>16,973,333</b>	<b>12,784,365,000</b>	<b>14,684,778</b>	<b>\$ 928,415</b>

## WATER PLANT STATISTICS

	2010	2009	2008	2007	2006	2005	2004
Water Pumped							
Million Cubic Feet	773.2	829.1	826	846	832.4	825.1	862.6
Water Sold							
Million Cubic Feet	665.7	658	601	746	697.8	704.7	718.8
General & Distribution Operating							
Costs including Maintenance (*)	\$ 9,275,099	\$ 9,250,685	\$ 9,930,687	\$ 9,545,839	\$ 8,399,508	\$ 7,979,034	\$ 7,165,410
Cost per 100 Cubic Feet	\$ 1.3933	\$ 1.4059	\$ 1.6524	\$ 1.2796	\$ 1.2037	\$ 1.1323	\$ 0.9969
Interest charges	\$ 304,164	\$ 297,249	\$ 240,761	\$ 305,579	\$ 307,361	\$ 340,199	\$ 326,297
Cost per 100 Cubic Feet	\$ 0.0457	\$ 0.0452	\$ 0.0401	\$ 0.0410	\$ 0.0440	\$ 0.0483	\$ 0.0454
Depreciation charge	\$ 1,414,807	\$ 1,252,343	\$ 1,157,899	\$ 1,184,485	\$ 1,124,151	\$ 1,063,447	\$ 1,066,639
Cost per 100 Cubic Feet	\$ 0.2125	\$ 0.1903	\$ 0.1927	\$ 0.1588	\$ 0.1611	\$ 0.1509	\$ 0.1484
Total Cost per 100 Cubic Feet	\$ 1.6515	\$ 1.6414	\$ 1.8851	\$ 1.4793	\$ 1.4089	\$ 1.3314	\$ 1.1906
Operating revenue	\$ 12,006,506	\$ 11,944,996	\$ 11,353,762	\$ 12,150,049	\$ 10,916,443	\$ 10,282,800	\$ 9,884,976
Revenue per 100 Cubic Feet Sold	\$ 1.8036	\$ 1.8153	\$ 1.8891	\$ 1.6287	\$ 1.5644	\$ 1.4592	\$ 1.3752
Water meters in service	30,317	27,950	28,016	28,087	27,948	27,809	27,696
Water main miles	427.3	425.2	424.4	424.3	408.3	408.22	406.24
Water meters per mile of main	70.95	65.73	66.01	66.20	68.45	68.12	68.18
Hydrants on system	2,535	2,506	2,500	2,396	2,373	2,363	2,231

(\*) Depreciation not included

## WATER PURIFICATION 2010 LAKEWOOD STATION

<b>Month</b>	<b>Total Number of Gallons Treated</b>	<b>Average Water Temperature at Treatment Bldg Degree F</b>	<b>Ammonia Lbs. Used</b>	<b>Chlorine Lbs. Used</b>
January	464,700,000	36.0	2,293	7,054
February	424,270,000	33.3	2,096	6,132
March	458,580,000	34.1	2,258	6,677
April	440,590,000	36.7	2,160	6,672
May	480,420,000	40.0	2,310	7,179
June	492,500,000	47.4	2,290	7,750
July	564,450,000	49.0	2,558	9,854
August	535,970,000	44.6	2,366	8,270
September	490,240,000	49.9	2,098	7,680
October	472,070,000	49.1	2,033	7,787
November	453,650,000	43.5	1,972	7,842
December	505,970,000	38.4	2,075	8,085
<b>TOTAL</b>	<b>5,783,410,000</b>		<b>26,509</b>	<b>90,982</b>
<b>Average/Month</b>	<b>481,950,833</b>	<b>41.8</b>	<b>2,209</b>	<b>7,582</b>

**2010  
LAKE SUPERIOR RAW WATER  
AND DULUTH FINISHED WATER (LABORATORY ANALYSES)**

**Milligrams per Liter, Except pH, Turbidity and Specific Conductance**

	<b>RAW</b>	<b>FINISHED</b>
	Average	Average
Dissolved Oxygen	12.19	12.63
pH	7.85	9.02
Monthly Specific Conductance Micromhos/cm	100.1	125.1
Alkalinity	43.3	46
Sulfates	3.49	10.24
Fluorides	0.05	1.13
Turbidity NTU	0.56	0.016
Chlorine	0	123
Temperature	42°F	

## WATER TREATMENT 2010

<b>Month</b>	<b>Alum Used Gal.</b>	<b>Fluoride Used Gal.</b>	<b>Turbidity of Effluent NTU</b>
January	11,928	2,599	0.012
February	8,316	2,041	0.014
March	8,316	2,487	0.014
April	4,000	2,254	0.014
May	8,000	2,516	0.013
June	16,316	2,525	0.016
July	16,000	2,993	0.015
August	16,000	2,734	0.018
September	16,000	2,445	0.018
October	8,000	2,346	0.019
November	16,000	2,241	0.020
December	16,000	2,227	0.018
<b>Average/Month</b>	12,073	2,451	0.016



## BACTERIOLOGICAL DATA 2010

	RAW WATER INTAKE				TREATED WATER		DISTRIBUTION	
	Number Samples	Total Bacteria per ml 48 Hours 35 degree C	Coliform per 100 ml	Fecal Coliform per 100 ml	Number Samples	Number Samples Positive	Number Samples	Number Samples Positive
January	34	1.00	0.18	0.03	200	0	92	0
February	34	0.35	0.03	0.00	192	0	93	0
March	42	7.50	0.17	0.02	244	0	105	0
April	36	0.69	0.08	0.01	184	0	93	0
May	37	2.22	0.49	0.01	216	0	92	0
June	40	6.30	2.63	0.18	228	0	98	0
July	36	4.44	0.36	0.00	202	0	92	0
August	41	7.66	1.59	0.01	240	0	93	0
September	38	3.82	1.13	0.00	216	0	95	0
October	37	3.22	1.14	0.04	216	0	92	0
November	36	18.83	13.50	0.76	208	0	91	0
December	34	2.29	0.18	0.01	192	0	91	0
<b>TOTAL</b>	445	58.32	21.48	1.07	2,538	0	1,127	0
<b>Average for Month</b>	37.1	4.86	1.79	0.09	212	0	93.9	0

## LENGTH OF WATER MAINS IN FEET 2010

Diameter Inches	Cast Iron	Ductile Iron	Steel	Copper	Polyvinyl Chloride	High Density Polyethylene	Total	Valves	Vaults
1	0	0	0	818	0	0	818	4	0
2	33	0	0	0	0	8,814	8,847	23	0
3	868	0	0	0	0	619	1,487	6	0
4	11,623	2,394	0	0	0	0	14,017	54	0
6	1,016,943	156,470	1,205	0	1,727	8,709	1,185,054	2,704	100
8	92,465	97,329	669	0	310	103,627	294,400	577	37
10	159,698	55,485	6,957	0	0	23,933	246,073	398	25
12	165,963	44,690	1,840	0	0	10,849	223,342	327	83
14	0	0	0	0	0	1,052	1,052	2	0
16	84,243	21,233	10,402	0	0	0	115,878	129	54
18	1,384	10	0	0	0	2,107	3,501	2	1
20	15,012	1,507	29,262	0	0	0	45,781	30	25
24	8,620	2,098	55	0	0	5,029	15,802	11	4
30	0	0	2,670	0	0	0	2,670	2	2
36	25,475	11,184	11,356	0	0	0	48,015	27	18
42	181	0	49,208	0	0	0	49,389	7	7
48	0	0	0	0	0	0	0	0	0
<b>TOTALS</b>	<b>1,582,508</b>	<b>392,400</b>	<b>113,624</b>	<b>818</b>	<b>2,037</b>	<b>164,739</b>	<b>2,256,126</b>	<b>4,303</b>	<b>356</b>
<b>Total Miles -</b>							<b>427.3</b>		
<b>Added in 2010 -</b>							<b>1.90</b>	<b>0</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 FINAL REPORT 2010

	Mueller	4"	Mathews		Michigan	Unknown	Waterous	Iowa		Stockholm	Total	Valves on	Lineal Feet
	5"		4 1/2"	5"				5"	4"				
<b>TOTAL IN SERVICE 12/31/2009</b>	216	0	519	0	6	345	1,416	0	2	2	2,506	2,154	48,675
<b>TOTAL IN SERVICE 12/31/2010</b>	141	0	539	0	5	368	1,480	0	2	2	2,535	2,380	49,638

**Number of Hydrants added in 2010 - 29**  
**Number of Hydrant Valves added in 2010 - 0**  
**Lineal feet of Hydrant branch main added in 2010 - 963**

**2010  
DATA, RESERVOIRS AND TANKS**

<b>Location</b>	<b>Capacity Gallons</b>	<b>Overflow Elevation</b>	<b>Greatest Depth</b>	<b>Dimension</b>	<b>Remarks</b>
Lakeside Tank	100,000	500.00 Feet	23.75 Feet	Diameter 27 Feet	Built in 1961
34th Avenue East "Reservoir "A"	16,320,000	294.00 Feet	31.50 Feet	284 Feet x 391 Feet	Built 1898, Rebuilt 1938
Endion Reservoir	14,140,000	290.00 Feet	27.80 Feet	240 Feet x 320 Feet	Built by G & W Company Rebuilt 1922 New Roof 1966 Lined 1988
West End Reservoirs #1-6	10,200,000	290.00 Feet	33.00 Feet	Diameter 100 Feet	Built 1953
West Duluth Reservoir	10,000,000	289.75 Feet	21.00 Feet	327.3 Feet x 263.3 Feet	Built 1906 Remodeled 1925
Middle System - Reservoir #1	5,171,000	560.00 Feet	28.00 Feet	Diameter 187.38 Feet	Built 1913 New Roof 1928 Lined 1988
Middle System - Reservoir #2	5,131,000	560.00 Feet	25.00 Feet	Diameter 190 Feet	Built in 1951
Woodland Reservoir #1	1,021,000	806.00 Feet	22.00 Feet	Diameter 91.5 Feet	Built in 1915 Lined 1939 Refaced 2002
Woodland Reservoir #2	2,015,000	806.00 Feet	35.50 Feet	Diameter 100 Feet	Built in 1950 Lined 2000 Refaced 2002
Arlington Reservoir #1	240,490	806.00 Feet	27.00 Feet	Diameter 40 Feet	Built in 1925
Arlington Reservoir #2	1,534,000	806.00 Feet	27.50 Feet	Diameter 100 Feet	Built in 1950
Orphanage Tank #1	400,000	916.00 Feet	129.40 Feet	Diameter 51.5 Feet	Built 1994
Gary Standpipe					Removed September 1999
Highland Tank #1	100,000	931.00 Feet	22.00 Feet	Diameter 30 Feet	Built 1954
Highland Tank #2	400,000	931.00 Feet	35.00 Feet	Diameter 46 Feet	Built 1972
Bay View Heights Steel Tank	100,000	550.00 Feet	26.00 Feet	Diameter 26 Feet	Built 1972
Proctor Tank	400,000	833.00 Feet	142.00 Feet	Diameter 51.5 Feet	Built 1989
<b>TOTAL</b>	<b>67,272,490</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	Average Total
Lakewood Low Lift	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	17400	56
			1 -- 1949	DeLaval		4	1 Unit direct connected to 350 hp, 2300 volt, 60 cycle, GE Induction motor	440	20800	51
			1 -- 1981	Worthington	Single Stage	1	1 Unit direct connected to 200 hp, 2300 volt, 60 cycle, GE Induction motor	500	11389	51
Lakewood High Lift	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	1200	17400	280
			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	20800	318
			1 -- 1981	Worthington	Single Stage	1	1 Unit direct connected to 1000 hp, 2300 volt, 60 cycle GE capacitor induction motor	1185	11389	276
Middle	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	1800	4000	317
			1 -- 1969	Aurora	Single Stage, One Unit, Centrifugal	4	Direct connected to 250 hp, 2300 volt, 60 cycle, 3-phase Louis Allis Induction motor	1750	2500	300
			1 -- 1986	Fairbanks-Morse	Single Stage, One Unit, Centrifugal	5	Direct connected to 250 hp, 2300 volt, 60 cycle, 3-phase Siemens-Allis motor	1785	2600	290
Woodland	Reservoir A	Woodland & Arlington Reservoir	1 -- 1950	Allis-Chalmers	All Units Single State, Two Unit, Centrifugal	3	Direct connected to 500 hp, 2300 volt, 60 cycle, Allis-Chalmers synchronous motor, with direct connected exciter	1800	2050	596
			1 -- 1986	Fairbanks Morse Co.		4	Direct connected to 300 hp, 2300 volt, 60 cycle, Siemens-Allis Induction motor	1775	1720	560
			1 -- 1975	Aurora #421	Two Stage, Centrifugal	5	Direct connected to 240 hp, 2300 volt, 60 cycle, 3-phase Marathon Induction motor	1750	1250	555

**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	Average Total
<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	1200	6000	70
<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	1750	1000	125
			1 -- 1961		Single Stage Centrifugal	6	Direct connected to 40 hp, 440 volt, 60 cycle, U.S. Induction motor	1750	1000	125
<b>Highland</b>	Arlington Reservoirs	Highland Tanks	1 -- 1955	DeLaval	Single Stage, Single Suction Centrifugal	3	Direct connected to 10 hp, 440 volt, 60 cycle, 3-phase, GE Induction motor	3475	200	138
			1 -- 1955	DeLaval	Single Stage, Single Suction Centrifugal	4	Direct connected to 20 hp, 440 volt, 60 cycle, 3-phase, GE Induction motor	3500	350	136
			1 -- 1959	Fairbanks-Morse	Single Stage, Double Suction Centrifugal	5	Direct connected to 50 hp, 440 volt, 60 cycle, 3-phase Fairbanks-Morse Induction motor	1750	1000	140
			1 -- 1959	Fairbanks-Morse	Single Stage, Double Suction Centrifugal	6	Direct connected to 50 hp, 440 volt, 60 cycle, 3-phase Fairbanks-Morse Induction motor	1750	1000	140
<b>Arlington</b>	Middle Reservoirs	Arlington Reservoirs	Mar-10	Aurora Type 411 BF Size 6x8x20	Single Stage Centrifugal	3	250 hp, 460 volt, 60 cycle 3-phase Baldor Induction motor with VFD drive	1750	1700	270
<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	1750	1000	240
<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	3500	1200	320
			2-- 2002			2				
<b>Proctor</b>	Bay View Tank	Proctor Standpipe	2 -- 1973	Aurora	Single Stage Centrifugal	1 2	Each unit direct connected to 125 hp, 440 volt, 60 cycle, 3-phase Louis Allis motor	3500	1200	320

## WATER UTILITY ACTIVITIES 2010

ACTIVITY	WORK COMPLETED
Repair of water services and mains	284
Main breaks	98
Cut off services	63
Install services	51
Steam requests (hydrants/services)	250
Water leak checks	413
Miscellaneous Customer Service requests	512
Fire hydrants:	
Replace and repair hydrants	299
Steaming	see above
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 DIVISION WATER ACTIVITIES 2010

ACTIVITY	WORK COMPLETED
<b>Meter Truck:</b>	
Gauge water service	147
Applications (water & gas)	7,867
Credit (water & gas)	3,487
Emergency (water & gas)	1,547
General (water & gas)	1,845
<b>Meter Shop:</b>	
Water meters repaired	305
Water meters tested	1,709
Plumbing truck orders (water & gas)	396

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**Gas Utility  
Statement of Net Income  
For The Year Ended December 31, 2009 and 2010  
(Unaudited)**

	2009	2010
<b><u>Operating Revenue</u></b>		
Residential Sales	\$ 28,025,618	\$ 24,011,273
Commercial & Industrial - Firm	12,611,342	9,701,095
Commercial & Industrial - Interruptible	4,303,853	4,742,939
Servicing Appliances	632,808	592,651
Other	662,479	650,875
<b>Total Operating Revenue</b>	<b>\$ 46,236,100</b>	<b>\$ 39,698,833</b>
<b><u>Operating Expense</u></b>		
Director's Office	77,285	68,140
Capital Related Expenses	1,146,066	1,328,543
Utility General Expense	2,352,544	2,514,117
Engineering	477,523	473,434
Utility Operations	1,849,537	1,909,302
Natural Gas	28,263,236	25,600,021
Customer Service	3,781,135	3,579,616
<b>Total Operating Expense</b>	<b>(37,947,326)</b>	<b>(35,473,173)</b>
<b>Operating Income</b>	<b>8,288,774</b>	<b>4,225,660</b>
<b><u>Other Revenue</u></b>		
Grants Non-Capital	0	1,250
Contributed Assets	21,764	24,788
Gain or Loss on Sale of Fixed Assets	100,726	3,388
Intergovernmental	23,364	23,365
Interest Income	129,893	112,785
<b>Total Other Revenue</b>	<b>275,747</b>	<b>165,576</b>
<b><u>Other Expenses and Transfers</u></b>		
Interest Expense	554,975	503,288
Transfers to Other Funds		
Payment to City in Lieu of Taxes	4,091,122	3,236,527
Investing Activities	121,100	106,424
Non-Capital Improvements	20,093	20,000
<b>Total Other Expenses and Transfers</b>	<b>(4,787,290)</b>	<b>(3,866,239)</b>
<b>Net Income or Loss</b>	<b>\$ 3,777,231</b>	<b>\$ 524,997</b>

**Gas Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Assets</u></b>		
Cash	\$ 4,568,394	\$ 2,097,198
Restricted Cash and Equivalents:		
Customer Deposit	1,517,133	1,855,353
Accounts Receivable (Net)	6,965,373	5,915,392
Special Assessments	13,568	12,116
Due from Other Funds	60,610	71,815
Interfund Loan Receivable	236,207	107,108
Due from Other Governments	30,984	107
Inventory	875,371	878,280
Prepaid gas	2,331,410	2,778,163
<b>Total Current Assets</b>	<b>\$ 16,599,050</b>	<b>\$ 13,715,532</b>
<b><u>Utility Plant</u></b>		
In Service	59,798,384	60,407,245
Construction	561,584	1,393,938
Less Accumulated Depreciation	(17,833,912)	(18,910,363)
<b>Total Utility Plant Assets</b>	<b>42,526,056</b>	<b>42,890,820</b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	44,200	32,402
Bond Issuance Charges	53,969	47,246
Advance to Other Funds	1,950,000	1,800,000
<b>Total Other Assets</b>	<b>2,048,169</b>	<b>1,879,648</b>
<b>Total Assets</b>	<b>\$ 61,173,275</b>	<b>\$ 58,486,000</b>

**Gas Utility**  
**Statement of Net Assets**  
**For The Year Ending December 31, 2009 and 2010**  
**(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 2,999,737	\$ 3,132,134
Contracts Payable	274,590	114,613
Leases Payable	98,001	166,889
Due to Other Funds	170,178	157,302
Due to Other Governments	93,548	83,029
Accrued Interest Payable	176,810	155,326
Accrued Salaries Payable	160,959	184,889
Accrued Vacations Payable	323,891	291,676
Deferred Revenue	1,489,269	1,264,099
Customer Deposits	1,206,434	1,322,411
Bonds Payable	652,000	821,000
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 7,645,417</b>	<b>\$ 7,693,368</b>
<b><u>Long Term Liabilities</u></b>		
Accrued Vacations Payable	57,042	62,178
Leases Payable	2,879,294	2,712,406
Net Other Post Employment Benefits	276,696	129,901
Bonds Payable	10,093,814	7,115,814
Less Unamortized Bond Discount	(40,796)	(14,472)
<b>Total Long Term Liabilities</b>	<b>13,266,050</b>	<b>10,005,827</b>
<b>Total Liabilities</b>	<b>20,911,467</b>	<b>17,699,195</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	28,897,712	32,136,429
Unrestricted	11,364,096	8,650,376
<b>Total Net Assets</b>	<b>40,261,808</b>	<b>40,786,805</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 61,173,275</b>	<b>\$ 58,486,000</b>

**City of Duluth**  
**Gas Utility Bonds and Capital Leases Payable**  
**December 31, 2010**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2009</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2010</u>
<b>Gas Utility</b>								
<b>Bonds</b>								
Revenue and General Obligation	\$ 2,132,000	9/1/2002	2/1/2018	\$ 1,424,000	\$ 0	\$ 0	\$ 1,424,000	\$ 0
Revenue and General Obligation	1,425,000	12/1/2002	2/1/2018	955,000	0	0	955,000	0
Revenue and General Obligation	6,090,000	12/1/2003	2/1/2019	4,445,000	0	0	365,000	4,080,000
Revenue and General Obligation	1,190,000	12/19/2006	2/1/2022	1,075,000	0	0	65,000	1,010,000
Revenue and General Obligation Refunding	2,846,814	12/17/2009	2/1/2017	2,846,814	0	0	0	2,846,814
<b>Bond Total</b>				<u>\$ 10,745,814</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 2,809,000</u>	<u>\$ 7,936,814</u>
<b>Capital Leases</b>								
AMR System	\$ 3,156,533	7/12/2007	2/1/2024	\$ 2,977,295	\$ 0	\$ 0	\$ 98,000	\$ 2,879,295
<b>Capital Lease Total</b>				<u>\$ 2,977,295</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 98,000</u>	<u>\$ 2,879,295</u>
<b>Total Gas Utility Bonds and Capital Leases</b>				<u>\$ 13,723,109</u>	<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ 2,907,000</u>	<u>\$ 10,816,109</u>

<u>Future Payments:</u>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2011	\$ 987,889	\$ 363,372	\$ 1,351,261
2012	1,029,232	333,783	1,363,015
2013	1,067,883	302,294	1,370,177
2014	1,097,806	267,807	1,365,413
2015	1,136,904	229,814	1,366,718
2016	1,176,307	189,528	1,365,835
2017	1,218,987	146,661	1,363,648
2018	822,054	108,441	930,495
2019	855,359	74,685	930,044
2020	328,980	50,974	379,954
2021	342,933	38,001	380,934
2022	357,226	24,426	381,652
2023	261,877	12,571	274,448
2024	134,672	2,552	137,224
2025	0	0	0
	<u>\$ 10,816,109</u>	<u>\$ 2,144,709</u>	<u>\$ 12,960,818</u>

**Gas Fund**  
**Schedule of Fixed Assets**  
**Year Ending December 31, 2010**

	<u>Balance Jan.</u> <u>1, 2010</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec.</u> <u>31, 2010</u>	<u>Accumulated</u> <u>Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 420,815	\$ 0	\$ 0	\$ 420,815	\$ 0	\$ 420,815
Infrastructure	49,101,630	540,093	0	49,641,723	15,050,125	34,591,598
Buildings and Structures	2,592,124	0	0	2,592,124	623,360	1,968,764
Equipment and Tools	7,683,815	211,909	143,141	7,752,583	3,236,878	4,515,705
Work in Progress	561,584	1,414,516	582,162	1,393,938	0	1,393,938
<b>Total</b>	<u>\$ 60,359,968</u>	<u>\$ 2,166,518</u>	<u>\$ 725,303</u>	<u>\$ 61,801,183</u>	<u>\$ 18,910,363</u>	<u>\$ 42,890,820</u>



## GAS STATISTICS

	2010	2009	2008	2007	2006	2005	2004
Gas sold MMBTU	4,617,923	4,804,897	5,169,299	4,544,616	4,285,167	4,777,330	5,066,548
Cost of gas sold	\$ 25,014,748	\$ 27,647,451	\$ 42,819,209	\$ 36,093,665	\$ 35,703,140	\$ 41,122,097	\$ 32,396,692
Cost per MMBTU sold	\$ 5.4169	\$ 5.7540	\$ 8.2834	\$ 7.9421	\$ 8.3318	\$ 8.6078	\$ 6.3942
Other operating costs, including maintenance(*)	\$ 9,238,887	\$ 9,243,290	\$ 10,106,846	\$ 9,561,803	\$ 7,952,616	\$ 7,793,937	\$ 8,145,934
Cost per MMBTU sold	\$ 2.0007	\$ 1.9237	\$ 1.9552	\$ 2.1040	\$ 1.8558	\$ 1.6314	\$ 1.6078
Interest charges	\$ 503,288	\$ 554,975	\$ 505,728	\$ 540,182	\$ 523,749	\$ 548,648	\$ 558,318
Cost per MMBTU sold	\$ 0.1090	\$ 0.1155	\$ 0.0978	\$ 0.1189	\$ 0.1222	\$ 0.1148	\$ 0.1102
Depreciation charge(**)	\$ 1,219,538	\$ 1,056,585	\$ 1,088,666	\$ 1,060,245	\$ 999,663	\$ 956,700	\$ 908,136
Cost per MMBTU sold	\$ 0.2641	\$ 0.2199	\$ 0.2106	\$ 0.2333	\$ 0.2333	\$ 0.2003	\$ 0.1792
Total cost per MMBTU sold	\$ 7.7906	\$ 8.0131	\$ 10.5470	\$ 10.3982	\$ 10.5432	\$ 10.5543	\$ 8.2915
Operating revenue per MMBTU	\$ 8.5967	\$ 9.6227	\$ 11.3061	\$ 10.4177	\$ 11.5200	\$ 11.5600	\$ 8.8800
Gas meters in service	26,668	26,148	25,983	25,726	25,369	25,085	24,970
Gas main miles	512.4	506	510.2	508	495.34	488.26	482.19
Gas transmission miles	5.3	5.3	5.3	5.3	-	-	-
Gas meters per mile of main	52.05	51.68	50.93	50.64	51.22	51.38	51.78

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

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

## GAS ANALYSIS 2010

Month	Gas Purchased MMBTU	Storage Gas	MMBTU Transport	Consumption w/o Transport MMBTU	Total Transport BTU's
<b>Beginning Balance</b>		<b>677,145</b>			
January	866,749	677,145	25,330	841,419	1,003
February	666,574	453,533	22,790	643,784	1,004
March	448,320	264,783	23,190	425,130	1,004
April	313,951	242,564	18,372	295,579	1,005
May	250,324	141,600	18,011	232,313	1,000
June	162,739	198,511	17,851	144,888	1,005
July	130,080	301,531	17,735	112,345	1,005
August	138,583	482,005	14,135	124,448	1,005
September	189,766	692,531	12,780	176,986	1,005
October	298,459	866,589	18,755	279,704	1,007
November	525,212	988,082	20,330	504,882	1,006
December	829,198	885,982	31,046	798,152	1,005
<b>Storage Balance</b>		<b>676,382</b>			
<b>Totals</b>	<b>4,819,955</b>		<b>240,325</b>	<b>4,579,630</b>	<b>1,005</b>

- withdraw, + inject

## GAS TRANSPORTATION ANALYSIS 2010

<b>Month</b>	<b>Transport in MMBTU</b>	<b>Customer Bill</b>	<b>US Energy Transport Bill</b>	<b>Total Transport Revenue</b>	<b>Number of Customers</b>
January	25,330	\$ 3,469.29	\$ 11,654.56	\$ 15,123.85	2
February	22,790	\$ 3,684.55	\$ 1,148.75	\$ 4,833.30	2
March	23,190	\$ 3,600.54	\$ 3,501.27	\$ 7,101.81	2
April	18,372	\$ 9,265.04	\$ -	\$ 9,265.04	2
May	18,011	\$ 8,413.53	\$ 1,523.54	\$ 9,937.07	2
June	17,850	\$ 9,170.45	\$ -	\$ 9,170.45	2
July	17,735	\$ 1,829.76	\$ -	\$ 1,829.76	2
August	14,135	\$ 7,225.72	\$ -	\$ 7,225.72	2
September	12,780	\$ 6,793.18	\$ -	\$ 6,793.18	2
October	18,755	\$ 7,123.85	\$ -	\$ 7,123.85	2
November	20,330	\$ 9,901.88	\$ -	\$ 9,901.88	2
December	31,046	\$ 12,286.70	\$ 14,819.43	\$ 27,106.13	2
<b>TOTALS</b>	240,324	\$ 82,764.49	\$ 32,647.55	\$ 115,412.04	
<b>AVERAGE PER MMBTU</b>		\$ 0.344	\$ 0.136	\$ 0.480	

## LENGTH OF GAS MAINS IN FEET 2010

<b>Diameter - Inches</b>	<b>Polyethylene</b>	<b>Steel</b>	<b>Total</b>	<b>Valves</b>	<b>Vaults</b>
1	33,980	0	33,980	47	0
1 1/4	0	2,913	2,913	35	0
2	1,724,869	31,201	1,756,070	840	1
3	355,821	9,732	365,553	225	0
4	0	51,808	51,808	61	4
6	48,525	83,105	131,630	99	8
8	5,910	156,074	161,984	63	3
10	0	93,805	93,805	25	5
12	0	12,160	12,160	11	2
14	0	4,118	4,118	0	0
16	0	91,598	91,598	7	4
<b>Totals</b>	<b>2,169,105</b>	<b>536,514</b>	<b>2,705,619</b>	<b>1,413</b>	<b>27</b>

<b>Total Miles Gas Main</b>	<b>512.4</b>
<b>Added in 2010</b>	<b>10</b>
<b>Pressure Regulators</b>	<b>16</b>
<b>Gas Valves added in 2010</b>	<b>28</b>

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 2010

ACTIVITY	WORK COMPLETED
<b>SERVICES AND MAINS</b>	
Installations	103
Cutoffs	69
Repaired services and mains (not considered hits)	36
Rerouted/replaced	7
Lowered gas services/mains	2
Hits	22

## CUSTOMER SERVICE DIVISION GAS ACTIVITIES 2010

ACTIVITY	WORK COMPLETED
<b>Service Workorders Completed:</b>	
Appliance Service	4,026
Furnace Cleaning	3,404
Tin Shop	499
<b>Meter Truck:</b>	
Applications (water & gas)	7,867
Credit (water & gas)	3,487
Emergency (water & gas)	1,547
General (water & gas)	1,845
<b>Meter Shop:</b>	
Gas Meters Repaired	256
Gas Meters Tested	588
Plumbing Truck Orders (water & gas)	396

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**Sewer Utility  
Statement of Net Income  
For The Year Ended December 31, 2009 and 2010  
(Unaudited)**

	2009		2010
<b><u>Operating Revenue</u></b>			
General Sewage Revenue	\$ 17,762,353		\$ 17,239,952
Other	126,556		159,308
<b>Total Operating Revenue</b>	<b>\$ 17,888,909</b>		<b>\$ 17,399,260</b>
<b><u>Operating Expense</u></b>			
Director's Office	56,288		54,086
Capital Related Expenses	1,346,065		1,305,381
Utility General Expense	1,385,041		1,102,041
Engineering	329,472		333,760
Utility Operations	1,910,480		1,923,233
Wastewater Treatment	8,673,461		7,695,814
Inflow and Infiltration	1,956,242		1,871,642
Customer Services	603,623		486,239
<b>Total Operating Expense</b>	<b>(16,260,672)</b>		<b>(14,772,196)</b>
<b>Operating Income</b>	<b>1,628,237</b>		<b>2,627,064</b>
<b><u>Other Revenue</u></b>			
Grants Non-Capital	0		1,250
Contributed Assets	121,518		280,876
Gain or Loss on Sale of Fixed Assets	2,160		720
Transfer from Other Funds			
Community Development Block Grant	0		222,124
Intergovernmental	8,283		8,283
Interest Income	32,339		38,886
<b>Total Other Revenue</b>	<b>164,300</b>		<b>552,139</b>
<b><u>Other Expenses and Transfers</u></b>			
Transfer to Other Funds			
Investing Activities	24,558		29,383
Other Transfers	50,000		50,000
Interest on Long Term Debt	707,871		661,648
<b>Total Other Expenses and Transfers</b>	<b>(782,229)</b>		<b>(741,031)</b>
<b>Net Income or Loss</b>	<b>\$ 1,010,308</b>		<b>\$ 2,438,172</b>

**Sewer Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Assets</u></b>		
Cash	\$ 2,454,188	\$ 3,240,019
Restricted Cash and Equivalents:		
Construction	477,797	168,544
Accounts Receivable (Net)	1,939,808	1,704,203
Special Assessments	23,347	21,616
Due from Other Funds	207,515	62,935
Due from Other Governments	22,350	221
Inventory	37,286	52,436
Prepays	197,364	235,069
	<u>5,359,655</u>	<u>5,485,043</u>
<b>Total Current Assets</b>	<b>\$ 5,359,655</b>	<b>\$ 5,485,043</b>
<b><u>Utility Plant</u></b>		
In Service	58,466,098	59,262,869
Construction	996,654	1,650,724
	<u>59,462,752</u>	<u>60,913,593</u>
Less Accumulated Depreciation	(10,571,760)	(11,541,683)
	<u>48,890,992</u>	<u>49,371,910</u>
<b>Total Utility Plant Assets</b>	<b>48,890,992</b>	<b>49,371,910</b>
<b><u>Other Assets</u></b>		
Special Assessments Receivable	151,272	134,903
Issuance Costs	163,753	171,166
	<u>315,025</u>	<u>306,069</u>
<b>Total Other Assets</b>	<b>315,025</b>	<b>306,069</b>
<b>Total Assets</b>	<b>\$ 54,565,672</b>	<b>\$ 55,163,022</b>

**Sewer Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 212,087	\$ 298,904
Contracts Payable	135,666	57,838
Notes Payable	226,495	229,701
Leases Payable	92,061	156,775
Due to Other Funds	554,866	833,139
Due to Other Governments	705,451	624,247
Interest Payable	289,060	249,088
Accrued Salaries Payable	76,320	88,426
Vacations Payable	157,515	146,757
Deferred Revenue	251,934	88,248
Bonds Payable	<u>1,263,612</u>	<u>997,058</u>
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ <u>3,965,067</u></b>	<b>\$ <u>3,770,181</u></b>
<b><u>Long Term Liabilities</u></b>		
Notes Payable	2,537,381	2,307,681
Vacations Payable	7,621	12,356
Leases Payable	2,704,792	2,548,017
Bonds Payable	14,541,574	13,250,516
Less Unamortized Bond Discount or Premium	<u>17,100</u>	<u>43,962</u>
<b>Total Long Term Liabilities</b>	<b><u>17,271,087</u></b>	<b><u>18,162,532</u></b>
<b>Total Liabilities</b>	<b><u>21,236,154</u></b>	<b><u>21,932,713</u></b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	28,145,387	30,173,023
Legal Restricted Assets	4,140	4,887
Unrestricted	<u>2,642,610</u>	<u>3,052,399</u>
<b>Total Net Assets</b>	<b><u>30,792,137</u></b>	<b><u>33,230,309</u></b>
<b>Total Liabilities and Net Assets</b>	<b>\$ <u><u>52,028,291</u></u></b>	<b>\$ <u><u>55,163,022</u></u></b>

City of Duluth  
Sewer Utility Bonds, Notes and Capital Leases Payable  
December 31, 2010

	Issued	Issue Date	Final Maturity	Principal Outstanding 12/31/2009	Issued	Draw Down	Retired	Principal Outstanding 12/31/2010
<b>Sewer Utility Bonds</b>								
Revenue and General Obligation	\$ 2,003,000	9/1/2002	2/1/2018	\$ 1,338,000	\$ 0	\$ 0	\$ 1,338,000	\$ 0
Revenue and General Obligation	1,825,000	12/1/2002	2/1/2018	1,220,000	0	0	1,220,000	0
Revenue and General Obligation Refunding	1,240,000	3/1/2003	2/1/2010	195,000	0	0	195,000	0
Revenue and General Obligation	4,045,000	12/1/2004	2/1/2020	3,175,000	0	0	240,000	2,935,000
Revenue and General Obligation	1,011,831	12/19/2005	2/1/2021	857,825	0	0	56,133	801,692
Revenue and General Obligation	2,503,169	12/19/2005	2/1/2021	2,122,175	0	0	138,867	1,983,308
Revenue and General Obligation	765,450	12/19/2006	2/1/2022	688,500	0	0	40,500	648,000
Revenue and General Obligation	179,550	12/19/2006	2/1/2022	161,500	0	0	9,500	152,000
Revenue and General Obligation	2,120,000	12/13/2007	2/1/2023	2,020,000	0	0	110,000	1,910,000
Revenue and General Obligation Refunding	1,325,000	12/13/2007	2/1/2016	1,165,000	0	0	170,000	995,000
Revenue and General Obligation	1,244,000	2/19/2009	2/1/2024	1,244,000	0	0	64,812	1,179,388
Revenue and General Obligation Refunding	713,186	12/17/2009	2/1/2017	713,186	0	0	0	713,186
Revenue and General Obligation	905,000	12/17/2009	2/1/2025	905,000	0	0	0	905,000
Revenue and General Obligation Refunding	2,025,000	11/23/2010	2/1/2018	0	2,025,000	0	0	2,025,000
<b>Bond Total</b>				<b>\$ 15,805,186</b>	<b>\$ 2,025,000</b>	<b>\$ 0</b>	<b>\$ 3,582,812</b>	<b>\$ 14,247,574</b>
<b>Notes</b>								
Public Facilities Authority	\$ 100,000	8/25/2003	8/20/2018	\$ 65,876	\$ 0	\$ 0	\$ 6,495	\$ 59,381
Public Facilities Authority	1,179,115	10/17/2003	8/20/2018	795,000	0	0	84,000	711,000
Public Facilities Authority (Note 1)	2,042,350	7/12/2007	8/20/2022	1,903,000	0	0	136,000	1,767,000
<b>Note Total</b>				<b>\$ 2,763,876</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 226,495</b>	<b>\$ 2,537,381</b>
<b>Capital Leases</b>								
AMR System	\$ 2,965,228	7/12/2007	2/1/2024	\$ 2,796,853	\$ 0	\$ 0	\$ 92,061	\$ 2,704,792
<b>Capital Lease Total</b>				<b>\$ 2,796,853</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 92,061</b>	<b>\$ 2,704,792</b>
<b>Total Sewer Utility Bonds, Notes, and Capital Leases</b>				<b>\$ 21,365,915</b>	<b>\$ 2,025,000</b>	<b>\$ 0</b>	<b>\$ 3,901,168</b>	<b>\$ 19,489,747</b>

<b>Future Payments:</b>			
Year	Principal	Interest	Total
2011	\$ 1,383,534	\$ 608,431	\$ 1,992,965
2012	1,702,088	577,604	2,279,692
2013	1,762,638	525,670	2,288,308
2014	1,828,578	471,078	2,299,654
2015	1,871,544	413,885	2,285,409
2016	1,789,048	357,443	2,126,489
2017	1,769,958	301,171	2,071,129
2018	1,728,609	243,021	1,971,630
2019	1,359,711	187,920	1,547,631
2020	1,419,118	136,283	1,555,401
2021	1,102,974	89,760	1,192,734
2022	813,705	55,903	869,608
2023	599,216	29,205	628,421
2024	304,028	8,948	312,976
2025	75,000	1,500	76,500
	<b>\$ 19,489,747</b>	<b>\$ 4,008,800</b>	<b>\$ 23,498,547</b>

**Sewer Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2010**

	<u>Balance Jan. 1, 2010</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2010</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 156,349	\$ 0	\$ 0	\$ 156,349	\$ 0	\$ 156,349
Infrastructure	45,864,102	89,995	0	45,954,097	6,784,969	39,169,128
Buildings and Structures	6,560,525	526,420	0	7,086,945	2,233,772	4,853,173
Equipment and Tools	5,885,122	424,876	244,520	6,065,478	2,522,942	3,542,536
Work in Progress	996,654	1,288,822	634,752	1,650,724	0	1,650,724
<b>Total</b>	<b>\$ 59,462,752</b>	<b>\$ 2,330,113</b>	<b>\$ 879,272</b>	<b>\$ 60,913,593</b>	<b>\$ 11,541,683</b>	<b>\$ 49,371,910</b>

**PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT 2010**

	Station 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 Location	Aux. Power Gen. Set No.
1	215 S. 60th Ave. E.	Triplex Submersible 2006	305280 gal. 1	301397 gal.	1 - 1700 2 - 1700 3 - 1700	KSB	1 - 83 hp 2 - 83 hp 3 - 83 hp	480 3	105	10"	5005 London Rd. SA0880119	Permanent Onsite
2	20 Lakeside Ct.	Simplex Wet well, dry well 1932	2160 gal. 1	927.6 gal.	81	Worthington	3 hp	240 3	8.75	3"	55th Ave. E. Lakeside Ct & London Rd. SA0880117	2766 2770
3	35 S. 45th Ave. E.	Triplex Submersible 1999	397872 gal. 4	N/A	1 - 1200 2 - 1200 3 - 265	KSB	1 - 34 hp 2 - 34 hp 3 - 10 hp	480 3	1 - 47.5 2 - 47.5 3 - 15.1	16"	Lower side of London Rd. on 42nd Ave. E. SD1210001	2765 2767
4	720 S. 23rd Ave. E.	Duplex Submersible	3024 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"	23rd Ave. E. & Water St. SW0430011	2766 2770
5	715 S. 22nd Ave. E.	Simplex Submersible 1970	720 gal. 6	97.3 gal.	1 - 67.42	Flygt	1.9 hp	240 1	9	3"	22nd Ave. E. & Water St. SW0430012	2770 (1) 2766 (2)
6	200 Lake Place Dr.	Wet well Dry well Pump 1 - 1970s Pumps 2&3 - 1980s	1106064 gal. 16	9313.8 gal.	1 - 2400 2 - 1800 3 - 1800	Chicago	40 hp	240 3	1 - 98 2 - 98 3 - 98	24"	1st Ave. E. & 1st St. CH0460269	2765 (1) 1
7	528 Lake Ave. S.	Duplex Submersible 2006	78048 gal. 16	N/A	1 - 400 2 - 400	KSB (+ mixer)	6.5 hp 6.5 hp 5.4 hp	208 3	23 23 18.2	6"	Northeast side of station SA1090003	2765 2767
8	729 Lake Ave. S.	Wet well Dry well 1983 & 1987 new pumps & motors	228960 gal. 15	8863.8 gal.	1 - 808 2 - 808	Fairbank Morse	30 hp	480 3	37.7	8"	Northeast side of station #7 SA109003	2765 2767
9	1202 Minnesota Ave.	Wet well Dry well New motors 1985	165888 gal. 15	3941 gal.	1 - 702 2 - 702	Fairbank Morse	1- 10 hp	240 3	27.2	10"	11th St. & Lake Ave. SA1090015	2766 (1) 2770 (2) one pump only
10	1939 Minnesota Ave.	Duplex Submersible 1996	N/A 15	N/A	1 - 207.7 2 - 247.1	KSB	1 - 2.4 hp 2 - 2.4 hp	208 3	8.7	4'	20th St. & Minnesota Ave. SA0009	2770 (1) 2766 (2)

**PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT 2010**

	Station 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 Location	Aux. Power Gen. Set No.
11	2845 Minnesota Ave.	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	39301	4"	29th St. & Minnesota Ave. SA1110002	2770 (1) 2766 (2)
12	3539 Minnesota Ave.	Duplex Submersible 1996	80640 gal. 15		1 - 170 2 - 170 (approx.)	KSB	1 - 1.75 hp 2 - 1.75 hp	208 3	1 - 6.9 2 - 6.9	4"	36th St. & Minnesota Ave. SA1110013	2770 (1) 2766 (2)
13	432 Railroad St.	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 - 19 19-Feb	12"	11th Ave. W. & Railroad St. SW0400031	2765 2767
14	735 Garfield Ave.	Wet well Dry well ~1940	50,976 gal. 18	2,476 gal.	1 - 163 2 - 276	Worthington	1 - 3 hp 2 - 7.5 hp	240 3	1 - 9.5 2 - 18.5	8"	Michigan St. SA0310022	2766 2770
15	2132 Michigan St.	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"	23rd Ave. W. below Michigan St. SW0310030	2765
16	210 S. 37th Ave. W.	Wet well Dry well 1993-95 new pumps & motors	572,544 gal. 23	4,630 gal.	912 avg. both pumps	Yeomans	1 - 15 hp	240 3	1 - 40	10"	37th Ave. W. above Oneota St. SW0300016	2765 2767
17	4100 Oneota St.	Duplex Submersible ~1975 2001	243,072 gal. 23	N/A	1 - 1000 2 - 1000	KSB	1 - 10 hp 2 - 10 hp	240 3	1 - 32.5 2 - 32.5	8"	Oneota SW0290038	2767 2765
18	700 S. 63rd Ave. W.	Duplex Submersible 1996	N/A 26	N/A	1 - 58.56 2 - 54.92	KSB	1 - 1.75 hp 2 - 1.75 hp	208 3	1 - 6.9 2 - 6.9	6"	63rd Ave. W. SA0180041	2770
19	107 Spring St. South	Duplex Submersible 1984	2880 gal. 28	409 gal.	1 - 73.7 2 - 79.2	Meyers	1 - 2 hp 2 - 2 hp	240	1 - 3.2 2 - 3.2	4"	Below RR tracks SW1230034	2770 2766
20	1325 Hilton St. New	Duplex Submersible 2004			1 - 169 2 - 160	KSB	1 - 5 hp 2 - 5 hp	208 30	1 - 17.7		Hilton SA0090036	

**PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT 2010**

	Station 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 Location	Aux. Power Gen. Set No.
21	11 Commonwealth Ave.	Duplex Wet well Dry well 2007	3,600 gal. 30	480 gal.	1 - 125 2 - 96.0	Chicago	2 - 5 hp 3 - 5 hp	240 3	2 - 13.4 3/13/2004	4"	Commonwealth & Prescott St. SA0030035	2770 2765
22	629 Walnut St.	Duplex Submersible 2002	43,344 gal. 33		1 - 180 2 - 135.3 1-2:337.6	KSB	1 - 5 hp 2 - hp	240 3	1 - 29.2 2 - 10.1	4"	Walnut St. & Eklund Ave. SA0730023	2770 2766
23	346 E. Owatonna St.	Duplex steel shell Submersible ~1975	3,168 gal. 11	295.5 gal.	1 - 120.6 2 - 131.3	Flygt	1 - 3.8 hp 2 - 3.8 hp	240 1	14	4"	SA0960002	2766 2770
24	No longer operational											
25	4634 Woodland Ave.	Duplex Submersible 2001	8352 gal. 11		1 - 2 -	KSB	1 - 15 hp 2 - 15 hp	240 3	1 - 52 2 - 52		Woodland Ave. near Vassar St. SA1000001	
26	1015 Jean Duluth Rd.	Duplex Submersible 1999	49,680 gal. 5		1 - 175 2 - 175	KSB	1 - 16.5 2 - 16.5	240 3	1 - 52 2 - 52	4"	Woodbury Lane SA0860115	2767 2765
27	835 E. Superior St.	Duplex Submersible 1984	4320 gal. 13	145.9 gal.	1 - 46.8 2 - 49.4	Myers	1 - 2 hp 2 - 2 hp	240 3	1 - 7.5 2 - 7.5	3"	Superior St. SA0420086	2766 2770
28	4937 Airport Rd.	Duplex Submersible 1998	17,136 gal. 22	N/A	1 - 150 2 - 150 rated from factory	KSB	1 - 3.4 hp 2 - 3.4 hp	240 3	1 - 10.2 2 - 10.2	4"	Washington St. SA1170006	2770 2766
29	15 N. 7th Ave. E.	Duplex Submersible 1984	5184 gal. 13	456.3 gal.	1 - 159 2 - 159 (approx.)	Flygt	1 - 3 hp 2 - 3 hp	240 3	1 - 9 2 - 9	4"	1st St. Alley east of station SA0470148	2770
30	2939 Morris Thomas	Duplex Submersible 1989	14,112 gal. 20	377.8 gal.	1 - 120.6 2 - 124.6	Flygt CP3102	1 - 5 hp 2 - 5 hp	240 3	1 - 13 2 - 13	6"	Morris Thomas W. of Keel	2766 2770



**PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT 2010**

	Station 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 Location	Aux. Power Gen. Set No.
31	3822 Haines Rd.	Duplex Submersible 1989	13,104 gal. 21	658.3 gal.	1 - 200.5 2 - 154.3	Flygt CP3102	1 - 5 hp 2 - 5 hp	240 3	1 - 13 2 - 13	6"	Hutchinson Rd. near Piedmont	2766 2770
32	3862 Haines Rd.	Duplex Submersible 1989	5,472 gal. 21	613.4 gal.	1 - 138.9 2 - 155.3	Flygt CP3102	1 - 5 hp 2 - 5 hp	240 3	1 - 13 2 - 13	4"	Haines Rd. south of Piedmont SA0600093	2766 2770
33	11503 Hwy #23	Duplex Submersible 1995	NA	420 gal.	1 - 140 2 - 140 (estimated)	KSB	1 - 3 hp 2 - 3 hp	208	1 - 9.8 2 - 9.8	4"	Peary St. in woods before access rd. SA0030061	2766 2770
34	2706 Parkwood Lane	Duplex Submersible 1993	NA 20	433.9 gal.	1 - 166 2 - 166	Flygt CP3127	1 - 10 hp 2 - 10 hp	480 3	1 - 13 1 - 13	4"	Hanford Ave. N. of Station SA0560093	2767 2765
36	412 Hastings Dr.	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"	Ewing & Marshall St. SA0900005	2767 2765
37	1031 London Rd.	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"	E. Superior St. SA0420080	2766 2770
38	4600 Minnesota Ave Park Point	Duplex Submersible	288 gal. 16	1241.8 gal.	1 - 175.7 2 - 46	Flygt CP3085 Meyers	1 - 2.3 hp 2 - 0.5 hp	240 1	1 - 10.2 2 - 4.3	6"	Park Point Rec Area MH SA1120015	2766 2770
39	7301 Grand Ave.	Duplex Submersible 1988	20,880 gal. 23	643.2 gal.	1 - 306.3 2 - 313.8	Flygt	1 - 5 hp 2 - 5 hp	240 3	1 - 13 2 - 13	6"	Grand Ave.	2766 2770
40	1200 Port Terminal Dr.	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"	Near Sta #14 SA0320008	None

**PUMPING STATIONS - SEWAGE PUMPING EQUIPMENT 2010**

	Station 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 Location	Aux. Power Gen. Set No.
41	1037 Joshua Ave.	Duplex Submersible	8928 gal. 22		1 - 400 2 - 400	KSB	1 - 15 hp 2 - 15 hp	240 3	1 - 43.5 2 - 43.5	6"	Joshua Ave. & Maple Grove SA0680029	2767 2765
42	4551 Stebner Rd.	Duplex Submersible 1996	NA 22	NA	NA	KSB	1 - 5 hp 2 - 5 hp	480 3	1 - 7.8 2 - 7.8	4" 6"	Airport Approach & Airport Rd. SD1180032	2767 2765
43	11600 Perch Lake Dr.	Duplex Submersible 2000			1 - 100 2 - 100 3 - 150	KSB	1 - 15 hp 2 - 15 hp	240 3	1 - 43.5 2 - 43.5		SA1280001	2767 2765
44	12800 W. 5th St.	Duplex Submersible 2000			1 - 180 2 - 180 3 - 200	KSB	1 - 10 hp 2 - 10 hp	208 3	29 29	6"	Lift Station #43	2767 2765
45	52nd Ave. E. & Dodge St.	Triplex Submersible 2005		2 MG	1 - 1100 2 - 1100 3 - 1100	KSB	1 - 32 hp 2 - 32 hp 3 - 32 hp	480 3	39	12"	47th Ave. E. & Superior St. SW0830136	Permanent on site
46	Grinder Pump #1 (behind) 1467 88th Ave. W.	Duplex Submersible Grinder ~2005				Barnes	1 - 2 hp 2 - 2 hp	208 3	9.2 9.2	1.25"		
47	Grinder Pump #2 9239 Idaho St.	(in Bethany Crisis Shelter) ~2005				Barnes						
48	Grinder Pump #3 2501 Commonwealth Ave.	(9) 723-3870 ~2005				Barnes						
49	Beacon PT 21st Ave. E. & Water St.	Private 724-4053										
50	505 S. 18th Ave. E. & Lakewalk (Endion St.)	Storage Basin 2007		1 MG	No Pumps	Gravity In Gravity Out						
51	2027 Water St	Storage Basin Oct. 2010		3 MG								

## LENGTH OF SANITARY SEWER PIPE IN FEET 2010

### PIPE MATERIAL

Dia. Inches	Force Main	ABS	ACP	BRA	CBR	CI/DI	CIPP	CMP	HDPE	PVC	RCP	STL	VCP	Totals
2									1,659	662				2,321
3														0
4										320			10,667	10,987
6		48				51				1,370				1,469
8		7,069	13,643			13,164	716		854	446,897	303	459	1,045,453	1,528,558
9							457						27,660	28,117
10			15,005			3,955			154	35,200	3,410		85,167	142,891
12			2,143			1,301			532	18,835	51,044		58,108	131,963
14						165								165
15										16,890	54,340		33,183	104,413
16						1,127			1,030		48			2,205
18				1,290		239		2,590		1,058	35,904	127	24,114	65,322
20				115		24							3,856	3,995
21				453		119				1,091	8,203		1,298	11,164
22				2,583									1,483	4,066
24				1,012		744				693	16,657		4,391	23,497
26				606							1,306	136		2,048
27				454						76	3,824		1,588	5,942
28				1,375										1,375
30				494		146					16,326			16,966
32				1,402							865			2,267
34				481							65			546
36				1,427		5,471					23,026			29,924
42					462	8,372					2,363			11,197
45				12							590			602
48				190	156	2,666					1,664			4,676
54						4,311					193			4,504
55					49									49
<b>Total -</b>	0	7,117	30,791	11,894	667	41,855	1,173	2,590	4,229	523,092	220,131	722	1,296,968	2,141,229

Notes: The City of Duluth Sanitary Sewer system includes 8,420 Manholes.

ABS - Acrylonitrile Butadiene Styrene  
 ACP - Asbestos Cement Pipe  
 BRA - Brick Arch  
 CBR - Circular Brick Pipe

CI/DI - Cast or Ductile Iron  
 CIPP - Cured in Place Pipe  
 CMP - Corrugated Metal Pipe  
 HDPE - High Density Polyethylene

PVC - Polyvinyl Chloride  
 RCA - Reinforced Concrete Arch  
 RCP - Reinforced Concrete Pipe  
 VCP - Vitrified Clay Pipe

**Miles - 405.5**

Note: Pipe quantities are derived from Geographic Information System.

## SANITARY SEWER ACTIVITIES 2010

ACTIVITY	WORK COMPLETED
Cleaning sanitary sewer pipe	520,972 ft
Televising sanitary sewer pipe	210,025 ft
Vault repair	77
Sanitary sewer pipeline repairs and replacements	41 spot repairs - 1,453 ft (in house)
Service calls from public:	
Determined to be private line problems	190
Determined to be City line problems	10
I & I inspections (Inflow and Infiltration Grant Program)	
Homes inspected	1,111
Sump pumps installed	671
Public informational meetings	3
Contractor meetings	1
House traps removed	434
Laterals lined	236
Inspections for connections and disconnections	Water Quality Specialists performed 139 connect & disconnect inspections
Dye testing	Perform line inspections and identify wyes and cross connection and illicit connections using dye for both City and private contractors. Done on an as needed basis.
Field sampling	Continued BOD & TSS sampling for the FOG (Fats, Oils & Grease) Program
Flow monitoring	As part of the Consent Decree, continued aggressive flow monitoring activities in targeted basins in support of ongoing modeling work designed to support and refine I/I efforts.
Lift station improvements	Lift Stations #6 & #51

- Rolled out the FOG Program. Educational meetings were held. Completed 117 individual inspections with FSFs (Food Service Facilities).
- Utility Operations achieved the Consent Decree mandate of disconnecting 630 footing drains and replacing/lining 175 private sewer services.
- Several staff members presented topical papers at industry conferences, locally and regionally.
- Two staff members participated in a national Operations Challenge Team in New Orleans.
- Utility Operations completed and had approved by the EPA the I/I Evaluations and Remedial Measures Plans.
- 704 Certificates of Compliance were issued for properties that were sold in the city.
- An Asset Management system (INFOR - EAM) was purchased and configured. Staff training begun and rollout is scheduled for early 2011.

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**Clean Water Utility  
Statement of Net Income  
For The Year Ended December 31, 2009 and 2010  
(Unaudited)**

	2009	2010
<b><u>Operating Revenue</u></b>		
Charges for Services	\$ <u>2,423,186</u>	\$ <u>2,938,537</u>
<b>Total Operating Revenue</b>	\$ <u>2,423,186</u>	\$ <u>2,938,537</u>
<b><u>Operating Expense</u></b>		
Clean Water Expense	<u>710,304</u>	<u>939,270</u>
<b>Total Operating Expense</b>	<u>(710,304)</u>	<u>(939,270)</u>
<b>Operating Income</b>	<u>1,712,882</u>	<u>1,999,267</u>
<b><u>Other Revenue</u></b>		
Contributed Assets	3,315,007	8,317,507
Interest Income	<u>205</u>	<u>11,486</u>
<b>Total Other Revenue</b>	<u>3,315,212</u>	<u>8,328,993</u>
<b><u>Other Expenses and Transfers</u></b>		
Transfers to Other Funds		
Investing Activities	0	11,042
Interest on Long Term Debt	<u>897</u>	<u>40,139</u>
<b>Total Other Expenses and Transfers</b>	<u>(897)</u>	<u>(51,181)</u>
<b>Net Income or Loss</b>	\$ <u><u>5,027,197</u></u>	\$ <u><u>10,277,079</u></u>

**Clean Water Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Assets</u></b>		
Cash	\$ 988,767	\$ 1,884,100
Accounts Receivable (Net)	358,468	325,708
Due from Other Governments	2,042,646	607,145
<b>Total Current Assets</b>	<b>\$ 3,389,881</b>	<b>\$ 2,816,953</b>
<b><u>Utility Plant</u></b>		
In Service	525,000	697,118
Construction	4,785,538	17,884,252
Less Accumulated Depreciation	0	(17,212)
<b>Total Utility Plant Assets</b>	<b>5,310,538</b>	<b>18,564,158</b>
<b><u>Other Assets</u></b>		
Issuance Costs	13,724	24,030
<b>Total Other Assets</b>	<b>13,724</b>	<b>24,030</b>
<b>Total Assets</b>	<b>\$ 8,714,143</b>	<b>\$ 21,405,141</b>

**Clean Water Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 108,783	\$ 58,458
Contracts Payable	1,947,610	1,403,837
Notes Payable	56,985	970,444
Due to Other Governments	10,600	9,000
Interest Payable	897	21,028
Deferred Revenue	16,156	12,621
Bonds Payable	10,388	10,942
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ 2,151,419</b>	<b>\$ 2,486,330</b>
<b><u>Long Term Liabilities</u></b>		
Bonds Payable	189,612	2,832,818
Notes Payable	742,868	178,670
<b>Total Long Term Liabilities</b>	<b>932,480</b>	<b>3,011,488</b>
<b>Total Liabilities</b>	<b>3,083,899</b>	<b>5,497,818</b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	4,324,409	14,595,314
Unrestricted	1,305,835	1,312,009
<b>Total Net Assets</b>	<b>5,630,244</b>	<b>15,907,323</b>
<b>Total Liabilities and Net Assets</b>	<b>\$ 8,714,143</b>	<b>\$ 21,405,141</b>



**City of Duluth  
Clean Water Utility Bonds and Notes Payable  
December 31, 2010**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2009</u>	<u>Issued</u>	<u>Draw Down</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2010</u>
<b>Clean Water Utility</b>								
<b>Bonds</b>								
Revenue and General Obligation	\$ 200,000	2/19/2009	2/1/2024	\$ 200,000	\$ 0	\$ 0	\$ 10,388	\$ 189,612
<b>Bond Total</b>				\$ 200,000	\$ 0	\$ 0	\$ 10,388	\$ 189,612
<b>Notes</b>								
Public Facilities Authority	\$ 2,414,150	12/10/2009	8/20/2024	\$ 702,238	\$ 0	\$ 1,711,912	\$ 26,150	\$ 2,388,000
Public Facilities Authority	796,835	6/17/2009	8/20/2024	97,614	0	497,294	30,835	564,073
Public Facilities Authority	9,087,385	8/31/2010	8/20/2025	0	0	577,057	0	577,057
Public Facilities Authority	3,753,059	8/31/2010	8/20/2025	0	0	274,131	0	274,131
<b>Note Total</b>				\$ 799,852	\$ 0	\$ 3,060,394	\$ 56,985	\$ 3,803,261
<b>Total Clean Water Utility Bonds and Notes</b>				\$ 999,852	\$ 0	\$ 3,060,394	\$ 56,985	\$ 3,992,873

<b>Future Payments:</b>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2011	\$ 981,386	\$ 77,755	\$ 1,059,141
2012	1,006,634	216,890	1,223,524
2013	1,020,496	202,582	1,223,078
2014	1,036,188	188,030	1,224,218
2015	1,050,189	173,213	1,223,402
2016	1,064,881	158,179	1,223,060
2017	1,080,435	142,922	1,223,357
2018	1,095,434	127,420	1,222,854
2019	1,110,989	111,849	1,222,838
2020	1,127,682	95,620	1,223,302
2021	1,144,235	79,331	1,223,566
2022	1,160,236	62,782	1,223,018
2023	1,176,789	45,939	1,222,728
2024	1,194,482	28,812	1,223,294
2025	934,000	11,750	945,750
	\$ 16,184,056	\$ 1,722,874	\$ 17,906,930

**Clean Water Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2010**

	<u>Balance Jan. 1, 2010</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2010</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 525,000	\$ 0	\$ 0	\$ 525,000	\$ 0	\$ 525,000
Infrastructure	0	0	0	0	0	0
Buildings and Structures	0	0	0	0	0	0
Equipment and Tools	0	172,118	0	172,118	17,212	154,906
Work in Progress	<u>4,785,538</u>	<u>13,098,714</u>	<u>0</u>	<u>17,884,252</u>	<u>0</u>	<u>17,884,252</u>
<b>Total</b>	<b><u>\$ 5,310,538</u></b>	<b><u>\$ 13,270,832</u></b>	<b><u>\$ 0</u></b>	<b><u>\$ 18,581,370</u></b>	<b><u>\$ 17,212</u></b>	<b><u>\$ 18,564,158</u></b>

# **S T O R M W A T E R**

**Stormwater Utility  
Statement of Net Income  
For The Year Ended December 31, 2009 and 2010  
(Unaudited)**

	2009	2010
<b><u>Operating Revenue</u></b>		
Stormwater Charges	\$ 5,120,945	\$ 4,685,309
Other	28,329	15,710
<b>Total Operating Revenue</b>	<b>\$ 5,149,274</b>	<b>\$ 4,701,019</b>
<b><u>Operating Expense</u></b>		
Director's Office	56,139	53,067
Capital Related Expenses	566,558	504,957
Utility General Expense	553,605	484,576
Engineering	230,794	382,665
Utility Operations	1,583,301	1,671,417
Customer Service	238,002	172,838
<b>Total Operating Expense</b>	<b>(3,228,399)</b>	<b>(3,269,520)</b>
<b>Operating Income</b>	<b>1,920,875</b>	<b>1,431,499</b>
<b><u>Other Revenue</u></b>		
Grants Non-Capital	73,643	29,589
Capital Contributions	25,309	0
Gain or Loss on Sale of Fixed Assets	960	320
Interest Income	37,743	33,506
<b>Total Other Revenue</b>	<b>137,655</b>	<b>63,415</b>
<b><u>Other Expenses and Transfers</u></b>		
Bond Interest	100,928	81,594
Transfers to Other Funds		
Investing Activities	36,040	31,936
Other Transfers	502,758	510,600
<b>Total Other Expenses and Transfers</b>	<b>(639,726)</b>	<b>(624,130)</b>
<b>Net Income or Loss</b>	<b>\$ 1,418,804</b>	<b>\$ 870,784</b>

**Stormwater Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Assets</u></b>		
Cash	\$ 2,528,833	\$ 2,420,389
Accounts Receivable	510,906	570,466
Special Assessments	17,807	7,722
Due from Other Funds	22,015	36,849
Due from Other Governments	23,098	0
Inventory	37,286	52,436
Prepays	83,466	73,648
<b>Total Current Assets</b>	<b>\$ 3,223,411</b>	<b>\$ 3,161,510</b>
<b><u>Utility Plant</u></b>		
In Service	13,201,539	13,514,649
Construction	433,426	1,390,440
Less Accumulated Depreciation	(2,088,703)	(2,425,748)
<b>Total Utility Plant Assets</b>	<b>11,546,262</b>	<b>12,479,341</b>
<b><u>Other Assets</u></b>		
Bond Issuance Charges	24,433	30,639
<b>Total Other Assets</b>	<b>24,433</b>	<b>30,639</b>
<b>Total Assets</b>	<b>\$ 14,794,106</b>	<b>\$ 15,671,490</b>

**Stormwater Utility  
Statement of Net Assets  
For The Year Ending December 31, 2009 and 2010  
(Unaudited)**

	<b>Liabilities &amp; Net Assets</b>	
	<b>2009</b>	<b>2010</b>
<b><u>Current Liabilities</u></b>		
Accounts Payable	\$ 36,856	\$ 256,801
Contracts Payable	54,909	78,558
Due to Other Funds	94,638	354,257
Due to Other Governments	11,493	11,378
Accrued Interest Payable	41,340	25,689
Accrued Salaries Payable	51,866	61,229
Vacations Payable	109,667	84,931
Deferred Revenue	258,621	50,626
Bonds Payable	<u>179,000</u>	<u>95,000</u>
<b>Total Current Liabilities (Payable from Current Assets)</b>	<b>\$ <u>838,390</u></b>	<b>\$ <u>1,018,469</u></b>
<b><u>Long Term Liabilities</u></b>		
Vacations Payable	8,028	26,910
Bonds Payable	2,308,000	2,105,000
Less Unamortized Bond Discount or Premium	<u>(3,551)</u>	<u>7,088</u>
<b>Total Long Term Liabilities</b>	<b><u>2,312,477</u></b>	<b><u>2,138,998</u></b>
<b>Total Liabilities</b>	<b><u>3,150,867</u></b>	<b><u>3,157,467</u></b>
<b><u>Net Assets</u></b>		
Invested in Capital Assets, Net of Related Debt	9,087,246	10,302,892
Unrestricted	<u>2,555,993</u>	<u>2,211,131</u>
<b>Total Net Assets</b>	<b><u>11,643,239</u></b>	<b><u>12,514,023</u></b>
<b>Total Liabilities and Net Assets</b>	<b>\$ <u><u>14,794,106</u></u></b>	<b>\$ <u><u>15,671,490</u></u></b>

**City of Duluth  
Stormwater Utility Bonds Payable  
December 31, 2010**

	<u>Issued</u>	<u>Issue Date</u>	<u>Final Maturity</u>	<u>Principal Outstanding 12/31/2009</u>	<u>Issued</u>	<u>Retired</u>	<u>Principal Outstanding 12/31/2010</u>
<b>Stormwater Utility Bonds</b>							
Revenue and General Obligation	\$ 1,425,000	9/1/2002	2/1/2018	\$ 952,000	\$ 0	\$ 952,000	\$ 0
Revenue and General Obligation	1,705,000	9/7/2006	2/1/2022	1,535,000	0	90,000	1,445,000
Revenue and General Obligation Refunding	755,000	11/23/2010	2/1/2018	0	755,000	0	755,000
<b>Bond Total</b>				<b>\$ 2,487,000</b>	<b>\$ 755,000</b>	<b>\$ 1,042,000</b>	<b>\$ 2,200,000</b>
<b>Total Stormwater Utility Bonds</b>				<b>\$ 2,487,000</b>	<b>\$ 755,000</b>	<b>\$ 1,042,000</b>	<b>\$ 2,200,000</b>

<b>Future Payments:</b>			
<u>Year</u>	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2011	\$ 95,000	\$ 67,887	\$ 162,887
2012	195,000	68,450	263,450
2013	205,000	62,450	267,450
2014	210,000	56,250	266,250
2015	220,000	49,800	269,800
2016	225,000	43,100	268,100
2017	235,000	35,575	270,575
2018	240,000	27,225	267,225
2019	135,000	20,300	155,300
2020	140,000	14,800	154,800
2021	145,000	9,100	154,100
2022	155,000	3,100	158,100
	<u>\$ 2,200,000</u>	<u>\$ 458,037</u>	<u>\$ 2,658,037</u>

**Stormwater Fund  
Schedule of Fixed Assets  
Year Ending December 31, 2010**

	<u>Balance Jan. 1, 2010</u>	<u>Additions</u>	<u>Deductions</u>	<u>Balance Dec. 31, 2010</u>	<u>Accumulated Depreciation</u>	<u>Book Value</u>
Lands and Grounds	\$ 8,481	\$ 0	\$ 0	\$ 8,481	\$ 0	\$ 8,481
Infrastructure	9,488,977	1	0	9,488,978	675,658	8,813,320
Buildings and Structures	1,401,897	0	0	1,401,897	182,247	1,219,650
Equipment and Tools	2,302,184	416,319	103,210	2,615,293	1,567,843	1,047,450
Work in Progress	433,426	1,010,727	53,713	1,390,440	0	1,390,440
<b>Total</b>	<u>\$ 13,634,965</u>	<u>\$ 1,427,047</u>	<u>\$ 156,923</u>	<u>\$ 14,905,089</u>	<u>\$ 2,425,748</u>	<u>\$ 12,479,341</u>



## LENGTH OF STORM SEWERS IN FEET 2010

Dia. Inch.	BR	CMP	CPD	C/IDI	HDPE	NCP	PPC	PVC	RCP	STN	STL	TP	VCP	UNK	Totals
3								68				840			908
4			2,240					182,284	1,039		13	36,354		29,983	251,913
6		678	204	152	423			9,671	62					1,546	12,736
7															0
8				138		401		6,686	53			126	456	3,805	11,665
10		2,401		288	49			2,281	11,679				1,778	30,416	48,892
12		10,332	4,318	1,972	24,287	774		13,577	434,238		68		1,110	86,418	577,094
13									54						54
14		104		38					239					341	722
15		3,143		44	3,534	171	55	1,486	187,432				432	49,090	245,387
16				800					256					754	1,810
17														91	91
18		5,010			695	75		965	113,657		65		642	37,847	158,956
20				92							291			4,417	4,800
21		979		63				5	38,770				575	8,288	48,680
22									1,053					1,471	2,524
23														1,040	1,040
24	328	2,775	1,105	146	489			97	69,379	83	70		633	26,839	101,944
26	1,745							48	4,059					13,512	19,364
27					28				16,043					1,844	17,915
28	651								3,570					2,698	6,919
29									795					432	1,227
30		1,024			1,510				40,732					12,093	55,359
31									385						385
32	368								1,979	62				1,799	4,208
33									694						694
34														342	342
36	260	942				460			34,401	158				15,584	51,805
40									1,331	600				239	2,170
42		53		253				94	15,170					2,529	18,099
44		209							3,522					1,007	4,738
45									697					455	1,152
46														77	77
48	357	198							16,116	532				11,475	28,678
50	240								224					37	501

## LENGTH OF STORM SEWERS IN FEET 2010

Dia. Inch.	BR	CMP	CPD	CI/DI	HDPE	NCP	PPC	PVC	RCP	STN	STL	TP	VCP	UNK	Totals
51									1,086						1,086
52									404						404
54									13,255					5,443	18,698
56									637					77	714
58														802	802
60		375						41	3,535	44				5,135	9,130
62									631					70	701
65									76					377	453
66	30								245					263	538
72		156							3,033	281				3,900	7,370
73														93	93
78		42							617						659
84	224	163							1,967	1,060				1,471	4,885
88									404					50	454
96								324	554	65				434	1,377
108									115					217	332
120									956					1,488	2,444
122									54						54
128									52	777				549	1,378
132									173					677	850
144														109	109
156									142						142
192									49						49
UNK	816	311			104			270	3,485	968				113,220	119,174
	5,019	28,895	7,867	3,986	31,119	1,881	55	217,829	1,029,167	4,630	507	37,320	5,626	480,844	1,854,745

Note: The Storm Sewer system also includes 11,905 catch basins and 5,706 manholes.

Pipe quantities are derived from Geographic Information System.

BR - Brick

CMP - Corrugated Metal

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

STL - Steel

TP - Thermoplastic

VCP - Vitrified Clay Pipe

UNK - Unknown

## DULUTH CREEKS AND STREAMS

Creek or Stream	Drainage Area (square miles)	Creek or Stream	Drainage Area (square miles)
Amity	16.60	44th Ave W	0.78
58th Ave E	0.59	49th Ave W	0.80
50th Ave E	0.63	62nd Ave W	0.90
47th Ave E	0.36	Kingsbury	8.60
43rd Ave E	0.59	68th Ave W	0.15
40th Ave E	0.45	79th Ave W	0.14
38th Ave E	0.03	82nd Ave W	0.26
37th Ave E	0.13	Knowlton	1.56
34th Ave E	0.53	84th Ave W	0.23
Tischer	7.30	86th Ave W	0.08
Chester	7.30	Gogebic Street	0.34
Oregon	0.85	Lenroot Street	0.61
Brewery	1.66	Stewart Street	1.97
Greys	0.63	Morgan Park	1.31
Clarkhouse	1.00	U. S. Steel	2.70
Buckingham	1.10	Gary Street	0.33
Miller	9.70	Bowser Street	0.08
Coffee	1.76	Heard Street	0.06
Merritt	2.30	Sargent	3.30
32nd Ave W	0.73	Fond du Lac	0.58
41st Ave W	0.36	Mission	10.30
Keene	6.40	Lester River	35.60

## STORMWATER UTILITY ACTIVITIES 2010

ACTIVITY	WORK COMPLETED
Cleaning storm sewer pipe	14,734 ft
Cleaning creeks	Removed garbage/trash/debris from several streams
Televising storm sewer pipe	4,501 ft
Manhole/catch basin repairs	112
Storm sewer pipeline repairs Replacement footage	526 ft
Ditch line (dug or repaired and seeded or sodded)	3,025 ft
Culverts repaired Replacement footage	8 1,187 ft
Steaming: Steamed culverts and ditches blocked with ice	8,504 ft
Sediment trap cleaning	none
Presentations: Public Staff City council and city commissions and committees School presentations, school group, childrens' groups Numerous radio, television and newspaper articles Regional conferences National conferences	12 3 5 25