

AGENDA
NORTH SHORE WATER COMMISSION

400 West Bender Road
Glendale, WI 53217
Wednesday, November 10, 2010
7:30 A.M.

1. Call to order by the Chairman.
2. Approval of the minutes of the meeting held Wednesday, October 6, 2010.
3. Monthly report of plant operations.
4. Discussion of annual operating budget.
5. Approval of monthly bills.
6. Report by Strand Associates regarding 2010 – 2011 capital improvement projects.
7. Discussion and approval to pay Strand Associates for engineering services rendered under Task Order Numbers: 10-04, 10-05, and 10-06.
8. Discussion and approval to pay invoices for materials and equipment to be used in the Reservoir Level Monitoring Project.
9. Discussion and approval to purchase new on-line chlorine analyzer to replace failing unit.
10. Discussion and approval to accept chemical quotations for 2011.
11. Discussion of Shorewood's request for water service. The Commission may take action regarding this matter.
12. Computer Administrator's quarterly report on the SCADA Upgrade Project.
13. Manager's report for October 2010.
14. Pursuant to section 19.85(1)(c) Wisconsin Statutes, this Commission reserves the right to convene in closed session to deliberate and discuss the compensation, benefits, and terms of employment regarding the Computer Administrator. The Commission will reconvene into open session to conduct business regarding this item and the remaining item on the agenda.
15. Date and time of December 2010 Commission Meeting.

**THE NORTH SHORE WATER COMMISSION
MEETING OF October 6, 2010**

A meeting of the North Shore Water Commission was held at the Filtration Plant, 400 West Bender Road, Glendale, Wisconsin on Wednesday, October 6, 2010.

Meeting was called to order at 7:30 A.M.

Present: Daniel Naze, Chairman; Michael West, Secretary; Richard Maslowski, Member

Also present: Eric Kiefer, Plant Manager & Recording Secretary; Jonathan Lee, Computer Administrator; Dan Vliet, Labor Attorney

Absent: Richard Foster, Alternate for Whitefish Bay; Susan Robertson, Alternate for Fox Point; Dave Eastman, Alternate for Glendale

CLOSED SESSION

At 7:31 A.M., it was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried by roll call vote that the Commission meet in closed session pursuant to section 19.85(1)(c) Wisconsin Statutes to deliberate and discuss the terms of its labor agreement with the Local 1486 and to deliberate and discuss the compensation, benefits, and terms of employment regarding the Computer Administrator.

The Commission reconvened into regular session at 8:15 A.M.

MINUTES

It was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the minutes for the meeting held Wednesday, September 8, 2010 be approved as drafted.

MONTHLY REPORT OF PLANT OPERATIONS

The monthly report of plant operations was placed on file without motion.

ANNUAL OPERATING BUDGET

The monthly budget reports were placed on file without motion.

MONTHLY BILLS

It was moved by Mr. West, seconded by Mr. Maslowski and unanimously carried that the following bills for the month of September, 2010 be approved and authorization was given to the Fiscal Agent to make such payments:

Alexander Chemical (treatment chemical: fluoride)	16,502.40
American Water Works Association (membership renewal)	1,777.00
AT&T (Klode phone)	62.08

B&B Electronics (instrumentation supplies)	210.61
Batteries Plus (tractor battery)	67.50
Chicago Suburban Express (shipping)	51.71
Cintas (uniform and janitorial supplies)	403.89
Diversified Benefit Services (section 125 plan administration)	92.64
EMS (motors for sludge pumps)	1,110.00
Fuchs & Boyle (legal service)	107.25
Glendale Water Utility (environmental and storm charges for Bender)	400.50
Grainger (office supplies, hardware, first aid supplies, electrical supplies, & locks)	719.32
Graybar (wire and conduit)	181.35
Great America Leasing Company (office copier lease and set up fee)	156.50
Hach (lab supplies)	263.66
Home Depot (leveling compound for sodium hypochlorite containment area)	511.48
Hydrite (treatment chemical: aqua ammonia)	850.00
KA Steel (treatment chemical: sodium hypochlorite)	2,557.51
Kaul Oil Company (fuel for tractor)	213.29
Konecranes (overhead hoist inspection)	244.00
McMaster-Carr (electric supplies and hardware)	811.69
Rotroff Jeanson (monthly accounting service)	875.00
Starnet Technologies (keypads for VFDs to replace displays)	2,747.52
Strand Associates (engineering services)	585.23
Superior Chemical Company (cleaning supplies)	89.55
Time Warner Cable (internet service)	764.80
Underwriters Labs (water analysis)	153.00
UPS Store (shipping)	385.00
US Cellular (cell phones)	54.77
USA Bluebook (fluoride tank lid)	41.25
Village Ace Hardware (hose cap, soil, grass seed, and tractor fuse)	38.04
Village of Fox Point (fuel for truck)	58.32
Waste Management (waste disposal)	344.32
We Energies (Bender electric)	12,864.90
We Energies (Klode electric-estimate)	4,000.00
We Energies (Klode gas)	19.74
We Energies (Henry Clay electric)	3.82
We Energies (Green Tree electric)	46.42
Wisconsin State Lab of Hygiene (fluoride analysis)	40.00
	<hr/>
	SUB-TOTAL \$50,406.06

Maintenance Reserve

Graybar (generator trip unit replacement)	3,230.24
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	SUB-TOTAL \$3,230.24

TOTAL \$53,636.30

RESERVOIR LEVEL MONITORING PROJECT

It was moved by Mr. West, seconded by Mr. Maslowski, and unanimously carried that the Commission approve the payment of the invoice from McMaster-Carr for

materials to be used in the Reservoir Level Monitoring Project. Funding to come from each community based on current capital allocation percentages.

DISCUSSION OF SHOREWOOD'S REQUEST FOR WATER SUPPLY PROPOSAL

The Plant Manager and Commissioner Richard Maslowski provided a summary of a meeting that occurred between Village Manager Chris Swartz, Commissioner Richard Maslowski, and the Plant Manager on October 5, 2010. The meeting was informational in nature: Shorewood was interested in learning more about our previous correspondences and about their options for proceeding. The Commission will wait for further communications from Shorewood.

PRELIMINARY STUDY TO INVESTIGATE THE CONSOLIDATE OF WATER UTILITY SERVICES

It was the sense of the Commission that the Plant Manager should pursue a preliminary fact-gathering study to gain a better understanding of the advantages and disadvantages that would result from consolidating water utility functions. Such study is intended to be preliminary, and its completion is based on the time and availability of the Plant Manager.

PLANT MANAGER'S MONTHLY REPORT

1. Plant staff applied a leveling compound in the sodium hypochlorite containment area to smooth and level the surface the new bulk tanks will be sitting on. This surface has been treated with an epoxy paint to protect against chemical exposure. Plant staff anticipates placing the new tanks in the containment area this month.
2. A replacement trip unit has been purchased for one of the breakers in the Bender transfer switch. Arrangements are being made for an electrical engineer from AC Engineering to replace trip unit later this month.
3. Plant staff installed the new fluoride transfer pumps; Miller Electric is installing new circuits to these pumps and the new sodium hypochlorite transfer pumps.
4. Plant Manager presented research findings at the WWA Annual Conference. The oral presentation was well attended; the poster was awarded 2nd place. Operator Technician Andrew Cegielski and his team took first place in the Top Ops competition—they will be attending the national conference at the expense of AWWA to compete at the national level next year.
5. The North Shore Fire Department and the North Shore Water Commission conducted 3 days of confined space training in treatment basin #4. The training was very successful for both parties.
6. In an effort to maximize pump efficiencies and minimize electrical expenses, the plant will be experimenting with a new mode of operation starting this month. From approximately 8:00 A.M. to 2:00 P.M. during most weekdays, the plant will shut down its production equipment and run off of the

reservoirs. When running, the plant will be running at a more efficient velocity and, overall, more electricity will be consumed off-peak.

7. Sludge pump motors for pumps #1 and #2 in the lower basement shorted. New motors were purchased.
8. The Plant Manager has entered into the following agreements in accordance to the purchasing policy:
 - Office Copying Equipment LTD: \$0.0149 per copy/print (no minimum) for all supplies, repair parts, and labor for maintaining Sharp MXB401 office machine.
 - Great America Leasing: \$87.00/month for 60 month lease of Sharp MXB401 office machine.

NEXT MEETING DATE AND ADJOURNMENT

There was no further regular business and the meeting adjourned at 9:10 A.M. The next scheduled meeting will be on Wednesday, November 10, 2010.



Eric Kiefer, Plant Manager & Recording Secretary

NORTH SHORE WATER COMMISSION
 Monthly Summary of Operations
 Month of October, 2010

	WFB.	GLE.	FPT.	MEQ	Totals
M.G. Metered at Plant	36.445	48.675	29.212	0.000	114.332
M.G. Reverse Flow	-0.001	0.000	-0.004	0.000	-0.005
M.G. Metered in System	-0.788	7.452	-10.838	4.174	0.000
M.G. Charged to Members	35.656	56.127	18.370	0.000	110.153
M.G. Charged to All Users	35.656	56.127	18.370	4.174	114.327
M.G. Same Month Last Year (Members)	34.123	50.193	16.334	0.000	100.650
M.G. Same Month Last Year (All)	34.123	50.193	16.334	3.925	104.575
Accumulated M.G.	371.609	552.338	183.626	44.061	1151.634
Accumulated M.G. Last Year	389.117	566.388	196.322	48.251	1200.078
Accumulated % of Total Pumped	32.27%	47.96%	15.94%	3.83%	100.00%
Monthly % of Total Pumped	31.19%	49.09%	16.07%	3.65%	100.00%
Accumulated % Pumped of Members	33.55%	49.87%	16.58%		100.00%
Monthly % Pumped of Members	32.37%	50.95%	16.68%		100.00%
Average Daily Pumpage in M.G.	1.150	1.811	0.593	0.135	3.688

Maximum Day Pumpage	4.346 M.G.
Date	13 th
Maximum Hour Pumpage	8.286 M.G.D.
Date	12 th
Hour	2200
Average Station Pressure	82.6 P.S.I.
Avg. Total Cl Residual (Tap)	2.47 mg/L
Raw Water Temperature (F)	Avg. 54 Max. 58 Min. 47
Tap Hardness (mg/L)	Avg. 137 Max. 140 Min. 133
Raw Water MPN Index	4.5

Electrical Calculations

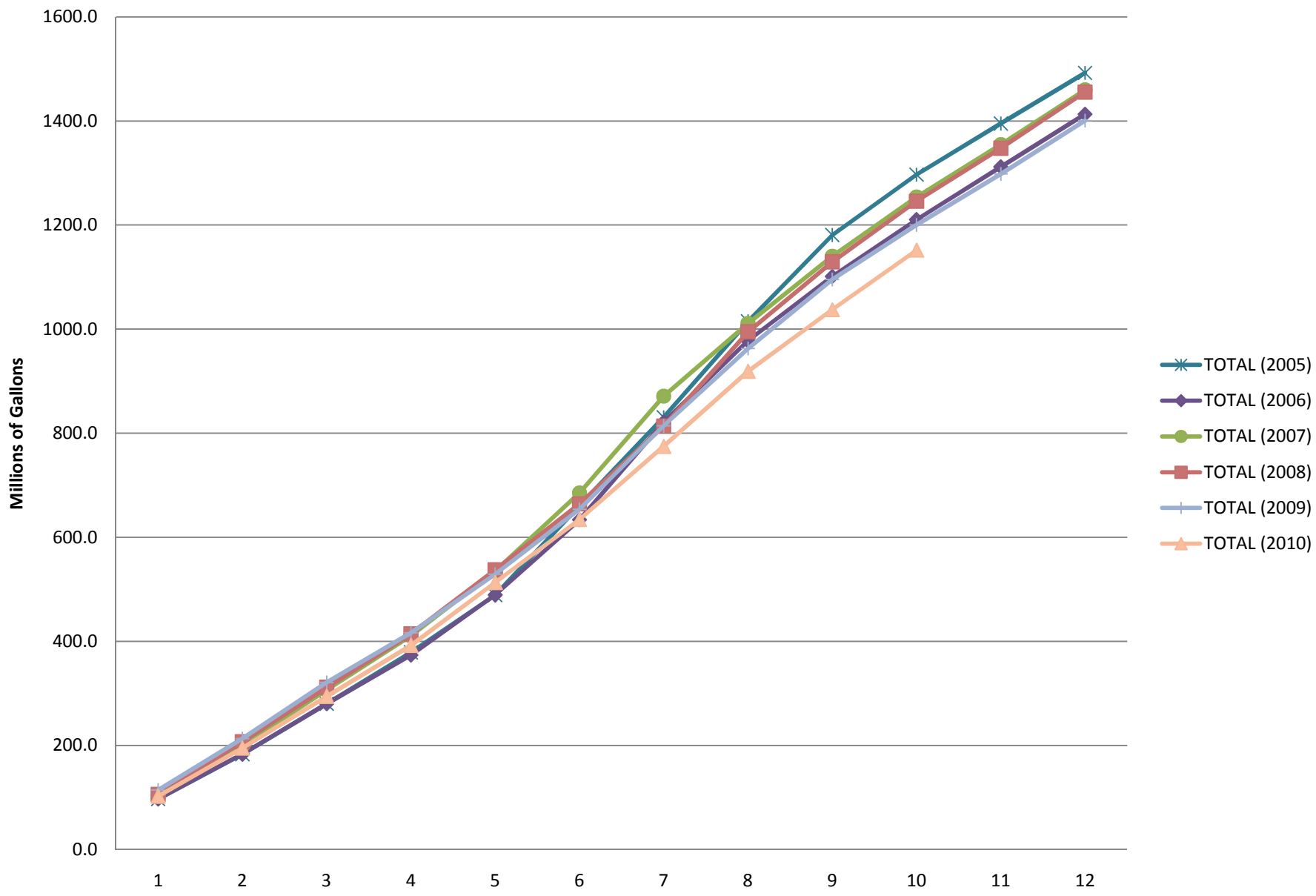
This Month (Billed)

Bender On-Peak Consumption	46,284 @ \$0.06985 / kWh	\$3,233	19.6%
Bender Off-Peak Consumption	140,833 @ \$0.04974 / kWh	\$7,005	42.5%
Klode On-Peak Consumption	14,744 @ \$0.07686 / kWh	\$1,133	6.9%
Klode Off-Peak Consumption	28,712 @ \$0.05600 / kWh	\$1,608	9.8%
Other & Energy Credits		\$3,505	21.3%
Electrical Charge / kWh	\$0.07355		
Total Consumption / M.G.	1,960 kWh / M.G.		
\$ / M.G.	\$144.18		

Chemicals Applied	mg/L	\$/M.G.
Ammonium Hydroxide	0.540	\$5.92
Sodium Hypochlorite	3.105	\$13.14
Fluoride	1.452	\$17.42
Alum	6.478	\$12.91
Carbon (PAC)	0.000	\$0.00
Potassium Permanganate	0.000	\$0.00
Phosphates	2.433	\$10.89
Cationic Polymer	0.556	\$3.99
Total Chemical Cost		\$64.27

Water Metering	M.G.	% Diff.
Corrected High Service (Filters)	116.590	2.0
Total High Service	120.395	5.3
Communities	114.327	0.0

NSWC Annual Pumpage (Jan 2005 - Oct 2010)



NORTH SHORE WATER COMMISSION
Income Statement
For the Nine Months Ending September 30, 2010

Acct.	Revenues	Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
43310	Whitefish Bay-Operations	\$ 38,895.93	\$ 38,895.93	\$ 350,063.37	\$ 350,063.37	0.00
43320	Fox Point-Operations	19,493.89	19,493.89	175,445.01	175,445.01	0.00
43330	Glendale-Operations	56,415.18	56,415.18	507,736.62	507,736.62	0.00
45100	Interest Income	0.00	0.00	0.00	0.00	0.00
45200	Insurance Policy Dividend	0.00	0.00	1,626.00	0.00	1,626.00
45300	Wholesale Water Sales	5,454.69	0.00	34,871.62	0.00	34,871.62
45400	Mequon Facilities Charges	0.00	0.00	500.00	0.00	500.00
45900	Misc Income	0.00	0.00	900.00	0.00	900.00
45910	Lab Services Income	1,050.00	0.00	9,135.00	0.00	9,135.00
49500	Transfer From Maint Reserve	0.00	0.00	0.00	0.00	0.00
49900	Uncategorized Income	0.00	0.00	0.00	0.00	0.00
	Total Revenues	121,309.69	114,805.00	1,080,277.62	1,033,245.00	47,032.62
Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	0.00	0.00
	Total Wholesale Water Sales	0.00	0.00	0.00	0.00	0.00
Acct.	Source of Supply Expenses					
60100	Labor & Super. of Intake Cri	0.00	0.00	0.00	0.00	0.00
60200	Intake Supplies	0.00	0.00	0.00	0.00	0.00
60500	Maint. of Crib & Wet Well	0.00	750.00	0.00	6,750.00	(6,750.00)
60700	Standby Service - Milwaukee	0.00	291.67	2,700.00	2,624.99	75.01
	Total Source of Supply Expe	0.00	1,041.67	2,700.00	9,374.99	(6,674.99)
Acct.	Pumping Expenses					
62100	Labor & Super. Klode	9,465.99	9,750.00	89,098.65	87,750.00	1,348.65
62200	Electricity	17,174.85	20,666.67	152,707.41	185,999.99	(33,292.58)
62300	Normal Supplies, Klode	760.14	550.00	4,865.58	4,950.00	(84.42)
62400	Unusual Maint., Klode Pump	0.00	0.00	57.33	0.00	57.33
62510	Unusual Maint., Klode Suppl	0.00	166.67	865.20	1,499.99	(634.79)
62520	Unusual Maint., Klode Labor	0.00	166.67	1,196.33	1,499.99	(303.66)
62600	Electricity Demand	0.00	0.00	0.00	0.00	0.00
62700	Unusual Maint., Bender Pum	3,857.52	333.33	3,857.52	3,000.01	857.51
62750	Care of Grounds	434.50	291.67	2,150.51	2,624.99	(474.48)
	Total Pumping Expenses	31,693.00	31,925.01	254,798.53	287,324.97	(32,526.44)
Acct.	Purification Expenses					
63100	Labor & Super., Bender	17,831.73	19,650.00	165,136.01	176,850.00	(11,713.99)
63200	Normal Supplies, Bender	2,565.11	2,841.67	25,367.97	25,574.99	(207.02)
63300	Heating at Bender	60.93	2,833.33	12,990.03	25,500.01	(12,509.98)
63400	Disposal of Sludge	783.35	583.33	4,120.52	5,250.01	(1,129.49)
63510	Unusual Maint., Bender Supp	511.48	1,333.33	15,031.19	12,000.01	3,031.18
63520	Unusual Maint., Bender Labo	1,691.16	1,583.33	15,135.61	14,250.01	885.60
63600	Laboratory	263.66	2,083.33	19,059.80	18,750.01	309.79
63700	Instrumentation	210.61	1,958.33	21,016.56	17,625.01	3,391.55
63750	Care of Grounds	434.50	291.67	2,150.49	2,624.99	(474.50)
63800	Treatment Chemicals	20,624.02	11,083.33	63,798.78	99,750.01	(35,951.23)
	Total Purification Expenses	44,976.55	44,241.65	343,806.96	398,175.05	(54,368.09)
Acct.	Transmission Main Expenses					
64100	Labor & Super., Trans. Main	0.00	0.00	0.00	0.00	0.00
64200	Trans. Mains- Supplies	0.00	0.00	0.00	0.00	0.00
64300	Meter Reading Supplies	0.00	0.00	0.00	0.00	0.00
64500	Maint. of Reservoir & Clear	0.00	500.00	3,474.10	4,500.00	(1,025.90)
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00

NORTH SHORE WATER COMMISSION
Income Statement
For the Nine Months Ending September 30, 2010

Acct.		Current Month Actual	Current Month Budget	Year to Date Actual	Year to Date Budget	Variance
64700	Revenues Maint. of Meters	0.00	208.33	4,900.62	1,875.01	3,025.61
	Total Trans. Mains Expenses	0.00	708.33	8,374.72	6,375.01	1,999.71
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	6,408.07	7,083.33	60,876.73	63,750.01	(2,873.28)
92100	Office Expenses	882.71	1,180.83	7,925.54	10,627.51	(2,701.97)
92200	Engineering Services	585.23	1,666.67	15,149.12	14,999.99	149.13
92300	Professional Services	2,876.75	3,761.67	26,922.77	33,854.99	(6,932.22)
92400	Prop & P.L. Insurance	3,113.59	4,500.00	4,542.61	40,500.00	(35,957.39)
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	3,893.00	4,000.00	36,381.46	36,000.00	381.46
92620	Other Employee Benefits	9,978.34	9,541.67	86,780.77	85,874.99	905.78
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	250.00	1,035.00	2,250.00	(1,215.00)
92900	Employee Training Expense	1,925.90	762.50	3,329.88	6,862.50	(3,532.62)
93000	Misc. General Expense	117.60	166.67	1,189.56	1,499.99	(310.43)
93100	Recording Secretary	0.00	108.33	540.00	975.01	(435.01)
93300	Transportation Expense	58.32	133.33	1,299.83	1,200.01	99.82
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	318.83	483.33	2,858.86	4,350.01	(1,491.15)
93700	Maint. of 516 W Bender	0.00	0.00	0.00	0.00	0.00
93800	Loss on Investments	0.00	0.00	0.00	0.00	0.00
94000	FICA Taxes	2,375.04	2,833.33	22,786.02	25,500.01	(2,713.99)
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	416.67	0.00	3,749.99	(3,749.99)
	Total Adm. & General Expen	32,533.38	36,888.33	271,618.15	331,995.01	(60,376.86)
	Total Expenses	109,202.93	114,804.99	881,298.36	1,033,245.03	(151,946.67)
	Net Income	\$ 12,106.76	\$ 0.01	\$ 198,979.26	\$ (0.03)	198,979.29

NORTH SHORE WATER COMMISSION
Income Statement (2 Year Comp.)
For the Nine Months Ending September 30, 2010

Acct.	Revenues	Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
43310	Whitefish Bay-Operations	\$ 38,895.93	\$ 38,697.76	\$ 350,063.37	\$ 348,279.84	1,783.53
43320	Fox Point-Operations	19,493.89	24,882.76	175,445.01	223,944.84	(48,499.83)
43330	Glendale-Operations	56,415.18	49,011.15	507,736.62	441,100.35	66,636.27
45100	Interest Income	0.00	128.68	0.00	3,712.11	(3,712.11)
45200	Insurance Policy Dividend	0.00	0.00	1,626.00	3,890.00	(2,264.00)
45300	Wholesale Water Sales	5,454.69	4,398.08	34,871.62	36,464.70	(1,593.08)
45400	Mequon Facilities Charges	0.00	0.00	500.00	0.00	500.00
45900	Misc Income	0.00	0.00	900.00	4,290.10	(3,390.10)
45910	Lab Services Income	1,050.00	1,680.00	9,135.00	5,040.26	4,094.74
49500	Transfer From Maint Reserve	0.00	0.00	0.00	0.00	0.00
49900	Uncategorized Income	0.00	0.00	0.00	0.00	0.00
	Total Revenues	121,309.69	118,798.43	1,080,277.62	1,066,722.20	13,555.42
Acct.	Wholesale Water Expenses					
53300	Wholesale Water Expense	0.00	0.00	0.00	(120.13)	120.13
	Total Wholesale Water Sales	0.00	0.00	0.00	(120.13)	120.13
Acct.	Source of Supply Expenses					
60100	Labor & Super. of Intake Cri	0.00	0.00	0.00	0.00	0.00
60200	Intake Supplies	0.00	0.00	0.00	0.00	0.00
60500	Maint. of Crib & Wet Well	0.00	1,655.00	0.00	7,555.00	(7,555.00)
60700	Standby Service - Milwaukee	0.00	0.00	2,700.00	2,700.00	0.00
	Total Source of Supply Expe	0.00	1,655.00	2,700.00	10,255.00	(7,555.00)
Acct.	Pumping Expenses					
62100	Labor & Super. Klode	9,465.99	9,836.54	89,098.65	84,368.56	4,730.09
62200	Electricity	17,174.85	19,058.08	152,707.41	161,196.73	(8,489.32)
62300	Normal Supplies, Klode	760.14	873.13	4,865.58	5,890.47	(1,024.89)
62400	Unusual Maint., Klode Pump	0.00	0.00	57.33	324.00	(266.67)
62510	Unusual Maint., Klode Suppl	0.00	0.00	865.20	0.00	865.20
62520	Unusual Maint., Klode Labor	0.00	0.00	1,196.33	0.00	1,196.33
62600	Electricity Demand	0.00	0.00	0.00	0.00	0.00
62700	Unusual Maint., Bender Pum	3,857.52	0.00	3,857.52	0.00	3,857.52
62750	Care of Grounds	434.50	409.75	2,150.51	1,643.12	507.39
	Total Pumping Expenses	31,693.00	30,177.50	254,798.53	253,422.88	1,375.65
Acct.	Purification Expenses					
63100	Labor & Super., Bender	17,831.73	17,174.11	165,136.01	159,885.81	5,250.20
63200	Normal Supplies, Bender	2,565.11	4,402.38	25,367.97	26,639.07	(1,271.10)
63300	Heating at Bender	60.93	26.35	12,990.03	19,585.58	(6,595.55)
63400	Disposal of Sludge	783.35	1,599.15	4,120.52	3,446.03	674.49
63510	Unusual Maint., Bender Supp	511.48	1,059.56	15,031.19	16,132.30	(1,101.11)
63520	Unusual Maint., Bender Labo	1,691.16	0.00	15,135.61	6,338.73	8,796.88
63600	Laboratory	263.66	730.60	19,059.80	18,738.34	321.46
63700	Instrumentation	210.61	0.00	21,016.56	20,096.87	919.69
63750	Care of Grounds	434.50	409.75	2,150.49	1,487.75	662.74
63800	Treatment Chemicals	20,624.02	9,783.11	63,798.78	86,604.96	(22,806.18)
	Total Purification Expenses	44,976.55	35,185.01	343,806.96	358,955.44	(15,148.48)
Acct.	Transmission Main Expenses					
64100	Labor & Super., Trans. Main	0.00	0.00	0.00	0.00	0.00
64200	Trans. Mains- Supplies	0.00	0.00	0.00	0.00	0.00
64300	Meter Reading Supplies	0.00	0.00	0.00	0.00	0.00
64500	Maint. of Reservoir & Clear	0.00	0.00	3,474.10	6,683.60	(3,209.50)
64600	Maint of Trans Mains	0.00	0.00	0.00	0.00	0.00

NORTH SHORE WATER COMMISSION
Income Statement (2 Year Comp.)
For the Nine Months Ending September 30, 2010

Acct.		Current Month Actual	Current Month Last year	Year to Date Actual	Year to Date Last year	Variance
64700	Maint. of Meters	0.00	0.00	4,900.62	0.00	4,900.62
	Total Trans. Mains Expenses	0.00	0.00	8,374.72	6,683.60	1,691.12
Acct.	Administration & General Expenses					
92000	Office & Admin. Salaries	6,408.07	6,178.69	60,876.73	57,206.54	3,670.19
92100	Office Expenses	882.71	1,266.92	7,925.54	10,712.04	(2,786.50)
92200	Engineering Services	585.23	0.00	15,149.12	14,570.40	578.72
92300	Professional Services	2,876.75	5,764.00	26,922.77	27,199.71	(276.94)
92400	Prop & P.L. Insurance	3,113.59	0.00	4,542.61	45,370.00	(40,827.39)
92500	Injuries & Damages	0.00	0.00	0.00	0.00	0.00
92600	WI Retirement Fund	3,893.00	3,451.69	36,381.46	31,996.36	4,385.10
92620	Other Employee Benefits	9,978.34	9,197.13	86,780.77	74,664.27	12,116.50
92700	Bond, Fiscal Agent	0.00	0.00	0.00	0.00	0.00
92800	NSWC Expense	0.00	0.00	1,035.00	125.85	909.15
92900	Employee Training Expense	1,925.90	100.00	3,329.88	4,631.40	(1,301.52)
93000	Misc. General Expense	117.60	87.33	1,189.56	868.91	320.65
93100	Recording Secretary	0.00	90.00	540.00	810.00	(270.00)
93300	Transportation Expense	58.32	137.10	1,299.83	937.84	361.99
93500	Maint-Office Equipment	0.00	0.00	0.00	0.00	0.00
93600	General Outdoor Expense	318.83	1,157.49	2,858.86	2,914.89	(56.03)
93700	Maint. of 516 W Bender	0.00	0.00	0.00	0.00	0.00
93800	Loss on Investments	0.00	0.00	0.00	0.00	0.00
94000	FICA Taxes	2,375.04	2,502.26	22,786.02	22,776.58	9.44
94100	Relocation Expense	0.00	0.00	0.00	0.00	0.00
94500	Contingency Expense	0.00	0.00	0.00	0.00	0.00
	Total Adm. & General Expen	32,533.38	29,932.61	271,618.15	294,784.79	(23,166.64)
	Total Expenses	109,202.93	96,950.12	881,298.36	923,981.58	(42,683.22)
	Net Income	\$ 12,106.76	\$ 21,848.31	\$ 198,979.26	\$ 142,740.62	56,238.64

NORTH SHORE WATER COMMISSION
 Operating Fund Balance Sheet
 September 30, 2010 and 2009

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Cash		
Petty Cash	\$ 50.00	50.00
Checking	163,566.06	117,093.24
Temporary Investments	25,258.62	25,964.73
	<hr/>	<hr/>
Total Cash	188,874.68	143,107.97
Storm Water Testing Inventory	244.46	0.00
Accounts Receivable	26,208.12	13,968.23
Prepaid Expenses	44,660.25	11,032.50
Due to/from Maint Reserve Fund	119,997.10	87,536.04
	<hr/>	<hr/>
Total Assets	\$ 379,984.61	255,644.74
	<hr/> <hr/>	<hr/> <hr/>
LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable	\$ 57,524.10	44,004.35
Payable to Municipalities	4,727.98	0.00
Payroll Liabilities	1,076.01	0.00
Wisconsin State Payable	0.00	1,004.58
Flexible Spending Accounts	6,240.88	95.39
Whitefish Bay-Water Sales	0.00	1,493.23
Fox Point-Water Sales	0.00	4,479.70
Glendale-Water Sales	0.00	1,493.23
Deferred Revenue	38,895.93	0.00
	<hr/>	<hr/>
Total Liabilities	108,464.90	52,570.48
Fund Balances:		
Operating Fund: Beginning of Year		
Whitefish Bay - Oper Fund	16,285.05	12,759.17
Fox Point - Oper Fund	8,584.16	5,942.35
Glendale - Oper Fund	22,671.24	16,632.12
	<hr/>	<hr/>
Total Operating Fund	47,540.45	35,333.64
Emergency Fund: Beginning of Year		
Whitefish Bay Emergency	8,127.50	8,127.50
Fox Point Emergency	5,372.50	5,372.50
Glendale Emergency	11,500.00	11,500.00
	<hr/>	<hr/>
Total Emergency Fund	25,000.00	25,000.00
Current Year Revenues Over (Under) Expenses		
	<hr/>	<hr/>
Total Fund Balances	271,519.71	203,074.26
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 379,984.61	255,644.74
	<hr/> <hr/>	<hr/> <hr/>

NORTH SHORE WATER COMMISSION
Maintenance Reserve Capital Projects Fund Balance Sheet
September 30, 2010 and 2009

	<u>Current Year</u>	<u>Prior Year</u>
ASSETS		
Savings	\$ 565,607.72	584,368.78
Due to/from Operations Fund	(119,997.10)	(87,536.04)
	<hr/>	<hr/>
Total Assets	\$ 445,610.62	496,832.74
	<hr/> <hr/>	<hr/> <hr/>
LIABILITIES AND FUND BALANCE		
Liabilities		
Accounts Payable Cap Projects	\$ 4,965.54	56,383.84
	<hr/>	<hr/>
Total Liabilities	4,965.54	56,383.84
Fund Balances:		
Reserve Fund: Beginning of Year		
Whitefish Bay Maint Reserve	220,013.10	243,428.32
Fox Point Maint Reserve	34,666.81	(8,270.18)
Glendale Maint Reserve	247,656.98	344,234.29
	<hr/>	<hr/>
Total Reserve Fund	502,336.89	579,392.43
Current Year Revenues Over (Under) Expenses	(61,691.81)	(138,943.53)
	<hr/>	<hr/>
Total Fund Balances	440,645.08	440,448.90
	<hr/>	<hr/>
Total Liabilities & Fund Balance	\$ 445,610.62	496,832.74
	<hr/> <hr/>	<hr/> <hr/>

AC Engineering (installation assistance of trip unit)	304.35	
Buelow Vetter (legal services)	2,890.00	
Butters-Fetting (backflow preventor testing)	933.64	
Cintas (uniform and janitorial supplies)	472.21	
Diversified Benefit Services (section 125 plan administration)	91.32	
EMS (crane repair in chemical feed room)	680.00	
Eric Kiefer (postage, parking, West Shore Water registration, supplies reimb)	98.25	
FedEx Kinko's (copying service)	10.98	
Fuchs & Boyle (legal service)	19.50	
Grainger (hardware, janitorial supplies, first aid supplies, gloves, gloves, liners)	452.91	
Graybar (cable)	304.73	
Great America Leasing Company (office copier lease payment)	87.00	
Hach (lab supplies)	267.28	
Hydrite (treatment chemical: aqua ammonia)	850.00	
Idexx (lab supplies)	1,201.86	
J Miller Electric (labor and materials to assist with chemical feed pump replacement)	6,250.00	
KA Steel (treatment chemical: sodium hypochlorite)	1,206.83	
Liquid Asset Diving-DBA Joe Weiss (inspection and report of crib and well)	5,230.00	
Mid-State Equipment (tractor repair parts)	349.89	
MMSD (3rd qtr sludge disposal)	783.35	
Nalco (treatment chemical: polymer)	774.00	
Office Copying Equipment (office copier maintenance agreement)	15.75	
Pristine Water Solutions (treatment chemicals: phosphates)	2,052.60	
R&R Insurance (audit adjustment of WC policy)	2,077.00	
Rotroff Jeanson (monthly accounting service)	875.00	
Sage Software (accounting software upgrades)	304.94	
Strand Associates (engineering service: record drawings - O&M project)	1,459.77	
Time Warner Cable (internet service)	764.80	
Time Warner Cable (phone at Klode-includes installation fee)	154.33	
Underwriters Labs (water analysis)	256.50	
UPS Store (shipping)	364.07	
US Cellular (cell phones)	58.53	
USA Bluebook (lab supplies)	346.52	
Village Ace Hardware (painting supplies, adhesive-backed letters)	34.55	
Village of Whitefish Bay Water Utility (Klode Water)	229.53	
Waste Management (waste disposal)	346.18	
We Energies (Bender electric)	12,545.83	
We Energies (Green Tree electric)	14.91	
We Energies (Henry Clay electric)	11.19	
We Energies (Klode electric)	3,938.06	
We Energies (Bender gas)	988.16	
We Energies (Klode gas)	9.20	
Wilkens-Anderson (lab supplies)	372.26	
	SUB-TOTAL	\$50,477.78
<u>Maintenance Reserve</u>		
	SUB-TOTAL	\$0.00
	TOTAL	\$50,477.78

10/31/2010 Checking account balance \$151,810.89

10/31/2010 Local Government Investment Pool (9/30 statement not available yet) \$565,714.10

North Shore Water Commission

Payment to Strand Associates

Task Order Numbers 10-04, 10-05, 10-06

November 10, 2010

The first payment request from Strand Associates for engineering services pertaining to Task Order Numbers 10-04, 10-05, and 10-06 has been reviewed and approved by the North Shore Water Commission.

The payment request is for \$8,690.00. The proportionate costs for the respective municipalities are as follows:

<u>Whitefish Bay</u>	<u>35.44%</u>	<u>\$3,079.74</u>
<u>Fox Point</u>	<u>22.30%</u>	<u>\$1,937.87</u>
<u>Glendale</u>	<u>42.26%</u>	<u>\$3,672.39</u>
		\$8,690.00

Please remember that the three municipalities must deposit these above amounts into the North Shore Water Commission Operating Account before payment can be made to Strand Associates. Your prompt attention to this matter is appreciated.

Respectfully,

Eric Kiefer

November 10, 2010



STRAND ASSOCIATES, INC.
 910 West Wingra Drive
 Madison, WI 53715
 (608) 251-4843

Invoice

October 14, 2010
 Project No: 3561.005
 Invoice No: 0081785

Mr. Eric Kiefer
 North Shore Water Commission
 400 West Bender Road
 Glendale WI 53217

Project: 3561.005 Bender WTP Fluoride Feed System Upgrade

Professional Services from Beginning of Project through September 30, 2010

Total Earned	2,640.00
Previous Fee Billing	0.00
Current Fee Billing	2,640.00

Total this project \$2,640.00

Contract Amount 18,209.00

Total Billings to date 2,640.00

Project: 3561.006 Bender WTP Reservoir Monitoring System
 Upgrade

Total Earned	3,720.00
Previous Fee Billing	0.00
Current Fee Billing	3,720.00

Total this project \$3,720.00

Contract Amount 15,553.00

Total Billings to date 3,720.00

Project: 3561.007 Klode Mussel Control System Upgrade

TERMS: Payment is due within 30 days of the date on this invoice.

Total Earned	2,330.00
Previous Fee Billing	0.00
Current Fee Billing	2,330.00

Contract Amount	14,432.00	Total this project	\$2,330.00
Total Billings to date	2,330.00	Total this invoice	\$8,690.00

TERMS: Payment is due within 30 days of the date on this invoice.

North Shore Water Commission
Reservoir Level Monitoring Project
November 10, 2010

Materials have been purchased for the Reservoir Level Monitoring Project. The invoices listed below have been reviewed and approved by the North Shore Water Commission.

Vendor	Invoice #	Amount
TCIC	85409	\$853.00
TCIC	85425	\$2,960.00
TCIC	85436	\$3,844.00
TCIC	85497	\$2,522.00
TCIC	85531	\$578.00
GE Sensing	114848	\$3,239.14
		<u>\$13,996.14</u>

The proportionate costs for the respective municipalities are as follows:

<u>Whitefish Bay</u>	<u>35.44%</u>	<u>\$4,960.23</u>
<u>Fox Point</u>	<u>22.30%</u>	<u>\$3,121.14</u>
<u>Glendale</u>	<u>42.26%</u>	<u>\$5,914.77</u>
		\$13,996.14

Please remember that the three municipalities must deposit these above amounts into the North Shore Water Commission Operating Account before payment can be made to the vendors listed above. Your prompt attention to this matter is appreciated.

Respectfully,

Eric Kiefer
November 10, 2010



13005 16th Ave N, Ste 500
 Plymouth, MN 55441
 Phone: 763-557-6648
 Fax: 763-557-6408

Invoice	85409
Date	9/30/2010
Page	1

Bill To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Ship To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
VERBAL ERIC	NOR409	TCL	UPS GROUND	NET 30	9/28/2010	17,506
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	0	1	DX80DR9M-H2	DX80 900 MHz FHSS UNLICENSED SPREAD SPECTRUM IO RADIO	\$560.00	\$0.00
2	0	2	DX85MOPOM4M4	MODBUS SLAVE ANALOG DEVICE-0/0/4/4	\$475.00	\$0.00
1	0	1	CSRB-M1250M125.47M1	SPLITTER CABLE 5 PIN EURO QD	\$54.00	\$0.00
4	0	4	DX80DR9M-H1	900 MHz RADIO 1 WATT POWER I/O DISCRETE INPUTS 2 DISC	\$719.00	\$0.00
4	0	4	QT50U-75390	LOW POWER CONSUMPTION ULTRASONIC SENSOR 26' SENSING	\$626.00	\$0.00
5	1	4	DX81P6	14 AMP HOUR BATTERY MODULE INCLUDES CABLE	\$295.00	\$295.00
3	3	0	BWA-EF14128	NEMA 4X FIBERGLASS ENCLOSURE	\$135.00	\$405.00
3	3	0	BWA-PA1412	SUB PANEL FOR ENCLOSURE	\$26.00	\$78.00

TCIC Inc. will assess a 1.5% late fee on all past due invoices
 SHIPPING UPS GROUND

Subtotal	\$778.00
Misc	\$0.00
Tax	\$0.00
Freight	\$75.00
Trade Discount	\$0.00
Total	\$853.00



13005 16th Ave N, Ste 500
 Plymouth, MN 55441
 Phone: 763-557-6648
 Fax: 763-557-6408

Invoice	85425
Date	10/1/2010
Page	1

Bill To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Ship To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
VERBAL ERIC	NOR409	TCL	UPS GROUND	NET 30	9/28/2010	17,506
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	0	1	DX80DR9M-H2	DX80 900 MHZ FHSS UNLICENSED SPREAD SPECTRUM IO RADIO	\$560.00	\$0.00
2	0	2	DX85MOPOM4M4	MODBUS SLAVE ANALOG DEVICE-0/0/4/4	\$475.00	\$0.00
1	1	0	CSRB-M1250M125.47M1:	SPLITTER CABLE 5 PIN EURO QD	\$54.00	\$54.00
4	4	0	DX80DR9M-H1	900 MHz RADIO 1 WATT POWER I/O DISCRETE INPUTS 2 DISC	\$719.00	\$2,876.00
4	0	4	QT50U-75390	LOW POWER CONSUMPTION ULTRASONIC SENSOR 26' SENSING	\$626.00	\$0.00

TCIC Inc. will assess a 1.5% late fee on all past due invoices
 SHIPPING UPS GROUND

Subtotal	\$2,930.00
Misc	\$0.00
Tax	\$0.00
Freight	\$30.00
Trade Discount	\$0.00
Total	\$2,960.00



13005 16th Ave N, Ste 500
 Plymouth, MN 55441
 Phone: 763-557-6648
 Fax: 763-557-6408

Invoice	85436
Date	10/5/2010
Page	1

Bill To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Ship To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
VERBAL ERIC	NOR409	TCL	UPS GROUND	NET 30	9/28/2010	17,506
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	0	1	DX80DR9M-H2	DX80 900 MHz FRSS UNLICENSED SPREAD SPECTRUM IO RADIO	\$560.00	\$0.00
2	2	0	DX85MOPOM4M4	MODBUS SLAVE ANALOG DEVICE-0/0/4/4	\$475.00	\$950.00
4	4	0	DX80DR9M-H1	900 MHz RADIO 1 WATT POWER I/O DISCRETE INPUTS 2 DISC	\$719.00	\$2,876.00
4	0	4	QT50U-75390	LOW POWER CONSUMPTION ULTRASONIC SENSOR 26' SENSING	\$626.00	\$0.00

TCIC Inc. will assess a 1.5% late fee on all past due invoices
 SHIPPING UPS GROUND

Subtotal	\$3,826.00
Misc	\$0.00
Tax	\$0.00
Freight	\$18.00
Trade Discount	\$0.00
Total	\$3,844.00



13005 16th Ave N, Ste 500
 Plymouth, MN 55441
 Phone: 763-557-6648
 Fax: 763-557-6408

Invoice	85497
Date	10/22/2010
Page	1

Bill To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Ship To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
VERBAL ERIC	NOR409	TCL	UPS GROUND	NET 30	9/28/2010	17,506
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	0	1	DX80DR9M-H2	DX80 900 MHZ FHSS UNLICENSED SPREAD SPECTRUM IO RADIO	\$560.00	\$0.00
4	4	0	QT50U-75390	LOW POWER CONSUMPTION ULTRASONIC SENSOR 26' SENSING	\$626.00	\$2,504.00

TCIC Inc. will assess a 1.5% late fee on all past due invoices
 SHIPPING UPS GROUND

Subtotal	\$2,504.00
Misc	\$0.00
Tax	\$0.00
Freight	\$18.00
Trade Discount	\$0.00
Total	\$2,522.00



13005 16th Ave N, Ste 500
 Plymouth, MN 55441
 Phone: 763-557-6648
 Fax: 763-557-6408

Invoice	85531
Date	11/1/2010
Page	1

Bill To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Ship To:

NORTH SHORE WATER COMMISSION
 400 W BENDER RD
 GLENDALE WI 53217

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Req Ship Date	Master No.
VERBAL ERIC	NOR409	TCL	UPS GROUND	NET 30	9/28/2010	17,506
Ordered	Shipped	B/O	Item Number	Description	Unit Price	Ext. Price
1	1	0	DX80DR9M-H2	DX80 900 MHz FHSS UNLICENSED SPREAD SPECTRUM IO RADIO	\$560.00	\$560.00

TCIC Inc. will assess a 1.5% late fee on all past due invoices
 SHIPPING UPS GROUND

Subtotal	\$560.00
Misc	\$0.00
Tax	\$0.00
Freight	\$18.00
Trade Discount	\$0.00
Total	\$578.00



GE
Sensing

1100 Technology Park Drive
Billerica, MA 01821
USA
T 1-800-833-9438
F 502 479 6886
E CCPressureUSA@ge.com

Invoice 114848

Invoice to:

North Shore Water Commission
400 W. Bender Road
Milwaukee, Wisconsin 53217

Deliver to:

North Shore Water Commission
400 W. Bender Road
Milwaukee, Wisconsin 53217

Details:

Your Account #: NOR112
Date Issued: Oct 1, 2010
Ship Via: UPS GROUND PP&A
Payment Terms: 30 DAYS FROM INV DATE
F.O.B. Point: EXWORKS

If any pages are missing, please contact us Page 1 of 2

Comments:				NONE
Item	Qty	Description	Unit Price	Total
		Our order : V5623 (Complete) Your order : 2378		
1	4	PTX 1730 Depth Level Sensor ECCN: EAR99 Schedule B: 9026.20.4000 Pressure Range: 10 psi gauge Electrical Connection: 24 Feet 192-A025-2 Polyurethane cable Your Order Line: 1 Serials: 3170211 3170214 3170215 3170216	594.96	2,379.84
2	4	STE110 Sensor Termination Enclosure ECCN: EAR99 Schedule B: 9026.90.2000 1Z7545110364075552 These units were assembled in Mexico I Declare All Information Contained in This Invoice to be True and Correct Bank information for wire transfer: Druck Inc.	213.00	852.00

Remit to: Druck Incorporated, P.O. Box 403354, Atlanta, GA 30384-3354



GE
Sensing

1100 Technology Park Drive
Billerica, MA 01821
USA
T 1-800-833-9438
F 502 479 6886
E CCPressureUSA@ge.com

Invoice 114848

Invoice to:

North Shore Water Commission
400 W. Bender Road
Milwaukee, Wisconsin 53217

Deliver to:

North Shore Water Commission
400 W. Bender Road
Milwaukee, Wisconsin 53217

Details:

Your Account #: NOR112
Date Issued: Oct 1, 2010
Ship Via: UPS GROUND PP&A
Payment Terms: 30 DAYS FROM INV DATE
F.O.B. Point: EXWORKS

If any pages are missing, please contact us Page 2 of 2

Comments:				NONE
Item	Qty	Description	Unit Price	Total
		Account number: 50-272-792 Deutsche Bank Trust Company 60 Wall Street New York, NY 10005 USA Federal ABA: 021001033 Swift Address: BKTRU33 CHIP ABA: 0103		

Sale of any Products and/or Services by Seller is expressly conditioned on Buyer's assent to the attached Terms and Conditions. Any additional or different terms proposed by Buyer are expressly objected to and will not be binding upon Seller unless specifically agreed to in writing by Seller's authorized representative.

Total Goods Value	3,231.84
Shipping & Handling Charge	7.30
Sales Tax @ 0.00%	0.00
Total Invoice Value	USD 3,239.14

Remit to: Druck Incorporated, P.O. Box 403354, Atlanta, GA 30384-3354

North Shore Water Commission
On-Line Chlorine Analyzer Replacement

November 10, 2010

Eric Kiefer

Introduction

The existing online chlorine analyzer, which is a HACH CL17 from 1994, is becoming increasingly unreliable. It is recommended that a new chlorine analyzer be purchased to replace the old unit.

Acceptable Replacements

Although there are many instruments available in the market, there are only two that have the reputation and the technology acceptable for our purposes: (1) HACH CL17 and (2) SWAN Analyzer AMI Codes-II CC. Although the cost of the equipment is very different, there are other factors need to be taken into consideration—primarily instrument capabilities and cost of the consumables.

Capabilities

HACH (Total Chlorine)

SWAN (Total Chlorine, Free Chlorine, Monochloramine, pH)

O&M Costs

Using a product life cycle of 10 years, the O&M costs are significantly different as shown below (shipping costs not included; future costs are not adjusted for inflation):

HACH

• Reagents:	\$48/mo.	\$ 5,760/10 years
• Maintenance Kit:	\$155/6 mos.	\$ 3,100/10 years
Supplemental bench testing for monochloramine – online analyzer cannot do this test.		
• Reagents:	\$100/mo.	\$12,000/10 years
• Labor:	\$125/mo.	\$15,000/10 years
<hr/>		
10-Year Total		\$35,860/10 years

SWAN

• Reagents:	\$1,064/yr.	\$10,640/10 years
• Hose Replacements:	\$180/yr.	\$ 1,800/10 years
• pH Sensor:	\$190/yr.	\$ 1,900/10 years
Supplemental bench testing for monochloramine – calibration & special purposes		
• Reagents:	\$81/yr.	\$ 810/10 years
• Labor:	\$208/yr.	\$ 2,080/10 years
<hr/>		
10-Year Total		\$17,230/10 years

Quoted Price

HACH (Quote from HACH Company)	\$ 3,162.00 + shipping
HACH (Quote from USA Bluebook)	\$ 3,445.00 (includes shipping)
SWAN (Quote from SWAN Analytical USA)	\$ 7,335.00 + shipping

Recommendation

The Plant Manager recommends purchasing the SWAN chlorine analyzer as quoted for \$7,335.00 plus shipping from SWAN Analytical USA using the Maintenance Reserve Fund.

**North Shore Water Commission
2011 Chemical Quotations
Plant Manager's Recommendations**

Ammonium Hydroxide - nominal 19% by weight: 55 gal drums delivered and returned

Hawkins: \$0.20/lb, \$30 deposit per drum

Recommended because Hawkins quoted the lowest unit price.

Sodium Hypochlorite - nominal 12.5% by weight: 4000 gal delivered by tanker truck

KA Steel: \$0.625/gal

Recommended because KA Steel quoted the lowest unit price.

Hydrofluosilic Acid - nominal 23% by weight: 4000 gal delivered by tanker truck

Alexander: \$695/ton

Recommended because Alexander quoted the lowest unit price.

Liquid Aluminum Sulfate: 4000 gal delivered by tanker truck

General Chemical: \$480/dry ton

Recommended because General Chemical quoted the lowest unit price.

Phosphate: 55 gal drums delivered and returned

Pristine: \$366.27/55-gal drum

Each phosphate blend is proprietary and would require pilot testing to determine effectiveness. Switching to lowest cost would require receiving special lead and copper testing from DNR. Recommended because Pristine will ultimately be cheaper than switching chemicals.

Polymer (Flocculation Aid): 55 gal drum delivered and returned

Hawkins: \$0.85/lb

Nalco (current): \$0.86/lb

Changing treatment chemicals may require special testing if mandated by DNR. If special testing is required, it is recommend that Nalco is selected. If no special testing is required, it is recommended that Hawkins is selected.

North Shore Water Commission
2011 Chemical Quotation Tabulation

Ammonium Hydroxide - nominal 19% by weight

Unit: Drum

Vendor	Quantity	Firm Price 2011	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2011	Surcharges / Fees	Deposits
Hawkins [NSWC]	55 gal drum	Yes	\$0.200/lb	No	N/A	N/A	\$30
Hydrite	55 gal drum	Yes	\$0.230/lb	Yes	Yes	\$34 energy surcharge per order	N/A
Brenntag	55 gal drum	Yes	\$0.515/lb	Yes	Yes	\$50 fuel surcharge per order	\$37.5

Chlorine - sodium hypochlorite - nominal 12.5% by weight or 15% by volume

Unit: Bulk

Vendor	Quantity	Firm Price 2011	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2011	Surcharges / Fees	Deposits
KA Steel	tank truck	Yes	\$0.625/gal (4000 gal pricing)	No	N/A	N/A	N/A
Milport	tank truck	Yes	\$0.735/gal	Yes	Yes	\$112 fuel surcharge per order	N/A
Alexander	tank truck	Yes	\$0.830/gal (4500 gal min)	No	N/A	N/A	N/A
Vertex	tank truck	Yes	\$0.900/gal	No	N/A	N/A	N/A

Hydrofluosilic Acid - nominal 23% by weight

Unit: Bulk

Vendor	Quantity	Firm Price 2010	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2010	Surcharges / Fees	Deposits
			\$695/ton (\$0.3475/lb) 4000 gal				
Alexander	tank truck	Yes	min	No	N/A	N/A	N/A
Milport	tank truck	Yes	\$750/ton (\$0.3750/lb)	Yes	Yes	\$112 fuel surcharge per order	N/A
Hawkins [NSWC]	tank truck	Yes	\$0.4100/lb	No	N/A	N/A	N/A
Hawkins [Oak Creek]	tank truck	Yes	\$0.4200/lb	No	N/A	N/A	N/A

Liquid Aluminum Sulfate (Derived from Aluminum Trihydrate)

Unit: Bulk

Vendor	Quantity	Firm Price 2011	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2011	Surcharges / Fees	Deposits
General Chemical	tank truck	Yes	\$480.00/dry ton (\$0.24/dry lb)	No	N/A	N/A	N/A

USALCO	tank truck	Yes	\$555.64/dry ton (\$0.28/dry lb)	No	N/A	N/A	N/A
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Phosphate							
<i>Unit: Drums</i>							
Vendor	Quantity	Firm Price 2011	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2011	Surcharges / Fees	Deposits
Harcros-HC-2060	30 gal drum	Yes	\$0.79/lb (5 drum min order)	No	N/A	N/A	N/A
Harcros-HC-2060	30 gal drum	Yes	\$0.79/lb (10 drum min order)	No	N/A	N/A	N/A
Harcros-HC-2090	55 gal drum	Yes	\$0.79/lb (4 drum min order)	No	N/A	N/A	N/A
Harcros-HC-2075	3100 lb tote	Yes	\$0.79/lb (1 tote min order)	No	N/A	N/A	N/A
Hawkins [South Milwaukee]	mini bulk	Yes	\$6.10/gal	No	N/A	N/A	N/A
Hawkins [Cudahy, Port Washington, NSWC]	drum	Yes	\$6.25/gal \$366.27/drum (\$6.66/gal)	No	N/A	N/A	\$30
Pristine [NSWC]	55 gal drum	Yes	(\$0.57/lb)	No	N/A	N/A	N/A
Pristine [Cudahy]	30 gal drum	Yes	\$2,379.09/month	No	N/A	N/A	N/A
Pristine [Port Washington]	30 gal drum	Yes	\$872.44/month	No	N/A	N/A	N/A
Carus 8400 [NSWC]	30 gal drum	Yes	\$0.73/lb (7 drum min order)	No	N/A	N/A	N/A
Carus 8400 [Cudahy]	30 gal drum	Yes	\$0.72/lb (5 drum min order)	No	N/A	N/A	N/A
Carus 8400 [Port Washington]	30 gal drum	Yes	\$0.70/lb (10 drum min order)	No	N/A	N/A	N/A

Polymer (Flocculation Aid)							
<i>Unit: Drums</i>							
Vendor	Quantity	Firm Price 2011	Price	Surcharges / Fees 2011	Firm Surcharges / Fees 2011	Surcharges / Fees	Deposits
Nalco-CAT-FLOC DL	55 gal drum	Yes	\$0.86/lb	No	N/A	N/A	N/A
Harcros-PWT 375	55 gal drum	Yes	\$0.90/lb (1 drum min order)	No	N/A	N/A	N/A
Hawkins [NSWC]	55 gal drum	Yes	\$0.85/lb	No	N/A	N/A	\$30

Comparison of Chemical Quotations (2008 through 2011)

	2008	2009	2010	2011	Increase / Unit (2009 to 2010)	% Incr (Dec.)
Aqua Ammonia (\$/lb)	N/A	0.295	0.23	0.20	-0.03	-13%
Sodium Hypochlorite (\$/gal)	0.74	1.23	0.61	0.625	0.015	2%
Hydrofluorosilic Acid (\$/lb)	0.256	0.32	0.36	0.3475	-0.0125	-3%
Aluminum Sulfate (\$/dry ton)	243	476	476	480	4	1%
Potassium Permanagate (\$/lb)	2.3	3.45	2.5	N/A		
Phosphate (\$/month) & (\$/gal)	665 \$/month	1460 \$/month	6.22 \$/gal	6.66 \$/gal	0.44	7%
Polymer (\$/lb)	0.79	0.86	0.86	0.85	-0.01	-1%

Draft

November 5, 2010

Mr. Chris Swartz
Village Manager
Village of Shorewood
3930 North Murray Avenue
Milwaukee, WI 53211

RE: Water System Services

Dear Mr. Swartz:

It was good to touch base with you to discuss the recent study work the Village had performed for the water system and your ongoing needs. We have reviewed the report you provided in detail and the recommendations for the next steps contained therein. We have also had discussions with Village engineering staff on this matter and reviewed additional information. We have prepared the following scope of services to accomplish the goals of the strategy outlined and the information you requested. We have also estimated our level of effort for these initial activities as we understand them.

The Village had a Water System Hydraulic Model and Water Supply Feasibility Report prepared in May of 2010 by Bonestroo. That study recommended some changes to the water system to meet the concerns expressed by a DNR representative regarding system pressures. We understand the changes to the system recommended in that report have been implemented. The study also recommended two specific additional items. These items relate to further investigation of the ability of the North Shore Water Commission to provide for the needs of the Shorewood water system from a hydraulic and water service standpoint. Specifically, these two items are:

- "1. Shorewood requires its water supply to operate at 799 feet of hydraulic grade. Can NSWC supply this grade, if not, what are the investments needed by NSWC? How about a hydraulic grade elevation of 820? What are the NSWC operation implications and capital investments required to achieve 820 feet?
2. In order to provide adequate fire flow, Shorewood requires a third feed location. The preliminary location of the third feed is an 8 inch connection at Wilson Drive. The need for a new meter pit at the new feed is understood. Can NSWC provide sufficient and adequate flow at this location? If not, where can the NSWC system provide this third connection to Shorewood?"

In order for our team to address these issues, and after further review, we propose the following two phase scope of services for this study work. The second phase would be performed only upon direction from the Village.

PHASE I

TASK 1 – PREPARE A DESCRIPTION OF THE TWO WATER SYSTEMS

1. Document, inventory and describe the operations of the NSWC supply, treatment, storage and distribution system.
2. Document, inventory and describe the operations of the Shorewood distribution system.
3. Describe the interrelations between the two systems to understand the scope of the project and how the systems relate to one another.

TASK 2 – DATA COLLECTION

1. Request on behalf of the Village the following information from NSWC or their representatives for our review:
 - a. Fire flow test data near the border of Shorewood and water mains serving the NSWC. Any data in the area of Glendale Avenue and the intersections with Morris Boulevard, Oakland Avenue and Wilson Drive is valuable.
 - b. Any other hydraulic field measurements that may be available for this area
 - c. Water Model output from NSWC for this area and copies of the water model input files in EPANET format for the NSWC water model. This model will be invaluable to our teams analysis.
 - d. Any other pertinent Information that NSWC has relating to the capability of their system to provide water service to the Village of Shorewood.
2. The Village will provide this information to our staff for review as well as a copy of the Village's hydraulic water model, in digital format, saved as an EPANET format file. The Village will also provide any hydraulic flow testing information (fire flow tests, pressure records, etc) for the area in question.

3. We will review the information to identify any gaps in the data and recommend any additional data collection we feel may be required to complete our review. This may include recommending additional field tests or collection of additional data from 3rd parties.

TASK 3 – CALIBRATION OF THE HYDRAULIC WATER MODEL FOR NSWC

1. There are two separate models prepared by others for the NSWC and Village. We understand the model for the NSWC was calibrated in 2009 using field measurements at flow rates much lower than now proposed. Additional testing is needed at higher rates to verify model calibration.
2. We propose to perform field testing, utilizing one of our staff members and Village staff as needed, at locations on the southern portion of Glendale and Whitefish Bay near potential service connections. The testing will be to identify available fire flows in these areas and to induce higher flow velocities in larger diameter mains that will allow for more accurate determination of head loss in critical mains.
3. Using the data collected from the field testing, we will check and adjust the calibration of the NSWC model and gain an accurate depiction of the NSWC distribution system near the Shorewood boundary.

TASK 4 – COMBINATION OF MODELS AND ALTERNATIVE ANALYSIS

1. For this effort we will combine the hydraulic models of the two systems into one model. This will allow us to evaluate the ability of the NSWC to provide water service along the boundary with the NSWC in both Whitefish Bay and Glendale. In particular we will focus on the following areas:
 - a. The ability of the NSWC to provide a hydraulic grade of 799 feet NGVD at locations identified in previous tasks.
 - b. The ability of the NSWC to provide a hydraulic grade of 820 feet NGVD at locations identified in previous tasks.
 - c. The ability of the NSWC to provide needed flow (5000 GPM) at a third connection to their system.
 - i. At Wilson Drive

- ii. If Wilson Drive cannot meet flow requirements, evaluate where a third connection could be established.
 - d. The nature of and cost of improvements needed by NSWC to provide these hydraulic grades and flows at the various locations.
 - e. The implications to the operation of the NSWC under the two scenarios.
2. The Model will be used to simulate needed peak and fire flows at various locations in Shorewood and to develop the following:
- a. Redundant connection locations to provide adequate hydraulic grades and flows to Shorewood.
 - b. Opinions on the continued use of existing metering facilities for connection to Shorewood from NSWC.
 - c. Maps showing the results of the analysis and potential service connections
 - d. Opinions of probable cost for the reviewed connections.
3. We will meet with NSWC representatives to discuss the findings and recommendations with them.

TASK 5 – REVIEW OF THE NSWC SYSTEM

1. Changes to the NSWC hydraulic grade line that may be required to provide adequate service to Shorewood may also require changes to service pumps or booster pumps in the NSWC system. Under this task we will review the following:
- a. The ability of the high lift service pumps at the treatment plant to meet the required hydraulic grade for Shorewood. This includes review of peak and fire demand conditions
 - b. Determine the scope of any changes that may be required to the pumps to meet the demands of the Shorewood system and provide opinions of probable cost for these improvements.
 - c. Compare the hydraulic grade needed with the ability of storage and booster pumping capabilities.

- d. Review the ability of the NSWC system to provide needed flows and hydraulic grades from these facilities in the event of a shutdown of the treatment plant
- e. Provide recommendations for necessary improvements and opinions of related costs.

TASK 6 – REVIEW OF OTHER ELEMENTS OF THE NSWC SYSTEM

1. Review water quality information available from the DNR and provided by the NSWC on raw and finished water quality. Review water quality changes as a result of recent improvements at the treatment plant. Review compliance history.

PHASE II

TASK 7 – FINAL REPORTING

1. Assemble draft final report documents as follows:
 - a. Create chapters describing the investigations, analyses, costs and recommended actions as described in Tasks 1-6.
 - b. An executive summary detailing critical project elements in a concise manner to allow review by Village officials.
 - c. Necessary tables and maps to convey the intent of the study in a clear and concise manner.
 - d. Appendix material generally containing technical data in support of the study and recommendations.
2. Deliver the draft final report to the Village and NSWC for review and comment.
3. Incorporate comments into the final report, assemble 10 copies and deliver.
4. Present the results of the study at a meeting of the NSWC and Village.

Proposal Letter to Mr. Chris Swartz
Village Manager
Village of Shorewood
November 5, 2010
Page 6

PROJECT TEAM

Mr. Steve Schultz, P.E. of our staff will serve as project manager for this project and will be responsible for all work, schedules and budgets. He will be assisted by Mr. Dan Butler, P.E. a staff engineer and Mr. Scott Osborn, P.E. water model expert. Additional staff will assist with maps, tables and presentation material preparation.

We will complete the tasks outlined above at our standard hourly rates not-to-exceed \$12,500 for Phase I and \$5,500 for Phase II, if authorized, which includes reimbursable expenses. We will not exceed these figures without prior authorization from the Village.

The above described professional services will be provided to you in accordance with the attached two page **Standard Terms & Conditions** dated December 7, 2000, which are made part of this agreement by reference. Please indicate your acceptance of this agreement by having the appropriate authorized official(s) affix their signature(s) where indicated and returning two fully executed copies to our office.

We appreciate the opportunity to provide this proposal for your review. We are prepared to begin the work immediately and will complete our efforts within 90 days of acceptance of this proposal, assuming data is collected in a reasonable timeframe to assist in our review.

Please feel free to call with questions

Very truly yours,

RUEKERT/MIELKE

Steven H. Schultz, P.E.
Principal/Water Supply & WTF Department
Head

SHS:tag
Enclosure
cc: Ryan T. Amtmann, P.E., Ruekert/Mielke
File

Proposal Letter to Mr. Chris Swartz
Village Manager
Village of Shorewood
November 5, 2010
Page 7

CLIENT NAME:

Village of Shorewood

By: _____

Title: _____

Date: _____

ATTEST:

By: _____

Title: _____

Date: _____

ENGINEER:

Ruekert & Mielke, Inc.

By: _____

Title: Senior Vice President

Date: November 5, 2010

Designated Representative:

Name: _____

Title: _____

Phone Number: _____

Facsimile Number: _____

Designated Representative:

Name: Steven H. Schultz, P.E.

Title: Principal/Water Supply & WTF
Department Head

Phone Number: (262) 542-5733

Facsimile Number: (262) 542-5631

North Shore Water Commission
Computer Administrator Report # 10
August 11, 2010 – November 10, 2010

Executive Summary

The sludge system has been updated. Two RTUs were installed to control the seven valves, five collectors and monitor the MMSD sludge mag meter. The UV system has been modified for a smoother startup. The UV alarms have also been updated to match the plant's alarming system. Several systems have had modifications due to the plant production shut down power study.

This report goes into greater depth about what has happened over last three months.

RT28 – Sludge

At the end of the last report RT28 was just getting started. Since then it has been wired to the 5 valves it controls, two sludge pit level indicators and programmed to control the four sludge pumps.

RT28 displays added information such as a count of openings a valve has, valve open timers and running in manual alarms. The plant staff can see how many gallons of sludge each basin has had removed for this week, this month and this year to compare to the previous week, month and year.

Each valve can be operated in manual control from the control panel, or controlled from the switches located at the sludge pits outside. If a valve is left open the operator will be alerted once an hour that the valve is open in manual control. The collector drives are configured this way as well.

Sludge System Control

After meeting with the Manager and Foreman the sludge system process has been changed. The cycles of collection have been doubled from four to eight. The sludge system can be run with added time or shortened when needed throughout the year. All five basins can be run in a day instead of only three.

Transferring the program from one RTU to two took some time. There were over 400 data points in the previous sludge system.

Communications between RTUs

The MTU was installed to be a data concentrator when bandwidth between RTUs was limited. The MTU communicated to each RTU and was the storage of important information each RTUs needed to operate. Today, most of this information is passed directly from RTU to RTU over Ethernet. The MTU's main duty today is alarm acknowledgement. The MTU still speaks to each RTU and sounds the horn and the bell as a backup to the SCADA system's voice alarms.

The MTU's firmware only held 10 Ethernet addresses. It was constantly requesting where each RTU was on the network. In 30 seconds there were 217 requests. The firmware update allocated 40 addresses and brought the network requests down to 15 in 30 seconds, a 93% drop.

The MTU's list of RTUs to talk to keeps expanding. The UV system has now been added to this list, as well as the new sludge RTUs.

Plant Production Shut Down Analysis

A few modifications have been made from the plant shut down tests performed in October. If we did shutdowns on a normal basis a few things needed to be changed.

Raw flow is calculated with a very large venturi that is not accurate at low ranges. The meter shows 1.6 MGD even when no pumps are running. The RTU now resets this value to zero when no raw pumps are running which keeps chemical pumps from pumping when not needed.

Fluoride feed pump cannot start without the operator pressing start on the drive. There is now an alarm requesting the operator do so when the RTU needs this pump to run.

UV flow used for chemical dosing of sodium hypochlorite and fluoride was allowing the chemical pumps to run during startup of the UV reactor when water is being recirculated back into the clearwell. These have been changed to run only when pumping water from the clearwell to the reservoir.

The UV system has been given a delayed startup sequence. The UV system faults when air is detected in the reactor. After being shut down air will accumulate in the pipes leading to the UV reactor. The operator can now allow the pump to run for a set amount of time to flush the air out of the system before the reactor starts. The result is smoother starts of the UV system.

Klode Communication Failure

The internet connection at Klode failed for over 24 hours on October 13th to 14th. Production was shut down at the start of the failure. When attempting to run a raw pump in manual control at the touch screen a programming error was discovered that prevented the pump from running at the correct speed. The error has been fixed, but the bigger question has been raised – what happens to Klode when communication fails? The raw pump program will be transferred to Klode from the plant, default set speeds will take control when communication fails, and the touch screen will be modified so the auto control program can be set locally at Klode. The transfer of the program to Klode will require testing.

Community Mag Meter Wire Replacement

The three community mag meters can detect reverse flow, but the SCADA system was not wired for it. Originally the venturi flow meters sent back a 4-20mA signal for flow using 2 wires. The mag meters do the same and can also detect flow direction. The meter is physically read each month to verify flow and record the reverse flow. The monthly report has an adjustment for the reverse flow.

New wires were installed over the course of three days. The old wire needed to be removed before the new could be installed. During this time the flow meters were hooked up to a temporary RTU inside the Fox Point meter pit to send the flow signals back to the plant's RTU6 where it is normally hooked up. During the first hours this Ethernet wire was run over the lawn, around the fountain and in the window to

the lab to be connected to the network. That afternoon it was switched to run through the new Ethernet wire inside the conduit.

Each meter pit now has four pairs of wire for sending flow data back to the plant along with an Ethernet wire for any future additions. In all over 2000 feet of wire was installed.

The plant can now read reverse flow from the mag meters. As shown in the monthly report, the minimum flow for Fox Point on October 28th was -1.249 MGD and the total community flow from the plant at the same time was 0.85. In the past if there was reverse flow the RTU would record it as positive, the total community flow would have been 2.099 and the system would be over feeding chemical.

In addition to sending flow direction the mag meters can send pulses, or digital 'clicks', per unit of water. This technology is slightly more accurate to use for volume totalizing, but not as simple for use with chemical feed systems. These signals will be hooked up to a separate RTU for redundancy.

It was originally proposed to have the mag meter RTU be a sole purpose RTU. Now this RTU will not only have a sole purpose but it will also be redundant. If one fails the other will still calculate flow and the chemical feed systems can run uninterrupted.

Completed Projects:

RTU2 – Filters 3 and 4, first RTU attempted.

RTU9 – Control Panel, failing RTU, priority upgrade

RT24 – Hypochlorite feed system, first control panel built from scratch

RT33 – Port Washington, battery operated pulse meter between Fox Point and Bayside/Mequon

RT34 – Green Vale, battery operated pulse meter between Fox Point and Bayside

RT35 – Henry Clay, mag meter between Glendale and Whitefish Bay

RT36 – Green Tree, mag meter between Glendale and Fox Point

RT37 – School Road, two pulse meters between Fox Point and Whitefish Bay

RAW2 – Raw Pump #2 at Klode pumping station

RAW4 – Raw Pump #4 at Klode pumping station

RT12 – main RTU at Klode, generator control, permanganate feed system, electrical metering

RTU3 – Filters 5 and 6, filter lead RTU

RTU4 – Filters 7 and 8

RTU1 – Filters 1 and 2

RT28 – MMSD mag meter and valve control

Projected timeline of remaining projects:

Project	Start	Finish	Days	Weeks	Year
RTU6 - Flow Meters	10/25/2010	11/15/2010	15	3.0	2010
Fox Point	11/15/2010	1/3/2011	35	7.0	
RTU5	1/3/2011	2/28/2011	40	8.0	2011
WFB	2/28/2011	4/15/2011	33	6.6	
RTU6	4/15/2011	5/10/2011	18	3.6	
RT11	5/10/2011	6/27/2011	34	6.8	
RTU8	6/27/2011	8/15/2011	35	7.0	
RTU7	8/15/2011	10/12/2011	42	8.4	
RT13	10/12/2011	11/28/2011	33	6.6	2012
MTU	11/28/2011	1/30/2012	45	9.0	
RTU0	1/30/2012	4/2/2012	45	9.0	
RT25 - Alum, Fluoride	4/2/2012	6/11/2012	50	10.0	

Moving Forward

RTU6's flow meters have been wired and the new RTU cards have been ordered. The hypochlorite bulk tank replacement project will be underway shortly. New transfer pumps will be installed and connected to the SCADA system. Ultrasonic sensors also need to be installed on the new bulk tanks. The fluoride transfer system has been moved up in priority as well.

Expenses and Budget

RTU input cards were ordered but have not shipped. There are no expenses to report.

Starnet Service

Starnet was not asked for assistance in any projects this quarter.

November 10, 2010

**Manager's report of completed operational projects
October 6th – November 9th**

1. Plant staff placed the new sodium hypochlorite bulk tanks in the containment area in the basement.
2. A technician from AC Engineering replaced the trip unit in the transfer switch at Bender. The transfer switch has been tested and is now in good working condition.
3. After briefly experimenting with starting and stopping water treatment during the day, the plant went back to normal operations. Although water quality was within DNR specifications during each startup, the filter effluent turbidity was very close to exceeding regulatory limits. Nevertheless, data that was captured during the short trial indicated that there are potential savings at Klode by operating as trialed. Because of our rate structure, we did not see any savings at the Bender facility.
4. New communication wires were pulled to the master meters. Additional wire pairs will allow for additional real-time information such as reverse flow—currently we have to read the meters on a monthly basis to determine totalized “backward” flow.
5. There was a minor fluoride spill in the chemical feed room that occurred during a fill of the day tank. Upcoming fluoride project will address two major problems we had to deal with: (1) poor containment area and (2) inadequate venting.

NORTH SHORE WATER COMMISSION
 WHOLESALE WATER SALES
 FOR YEAR: 2010

WHOLESALE INCOME BY COMPONENT
 (Top: JAN-MAR, Bottom: APR-DEC)

FACILITIES CHARGE

MONTH	CUSTOMER	KGAL PURCHASED	WHOLESALE RATE (\$/KGAL)	TOTAL VOLUME CHARGE	OPERATING \$			DISTRIBUTION OF CONVEYANCE CHARGE			FOR 2009 FACILITIES UPKEEP		AMOUNT BILLED
					\$0.683 / Kgal	\$0.825 / Kgal	\$0.390 / Kgal	FOX PT: 0.60	GLEN: 0.20	WFB: 0.20	\$500 / yr	NSWC REVENUE	
JANUARY	Mequon Water	3,518	\$ 1.898	\$ 6,677.16	\$ 2,402.79	\$ 2,902.35	\$ 1,372.01	\$ 823.21	\$ 274.40	\$ 274.40	\$ -	\$ 5,305.15	\$ 6,677.16
FEBRUARY	Mequon Water	3,108	\$ 1.898	\$ 5,898.98	\$ 2,122.76	\$ 2,564.10	\$ 1,212.11	\$ 727.27	\$ 242.42	\$ 242.42	\$ -	\$ 4,686.87	\$ 5,898.98
MARCH	Mequon Water	3,491	\$ 1.898	\$ 6,625.92	\$ 2,384.35	\$ 2,880.08	\$ 1,361.49	\$ 816.89	\$ 272.30	\$ 272.30	\$ 500.00	\$ 5,764.43	\$ 7,125.92
APRIL	Mequon Water	3,258	\$ 2.001	\$ 6,519.26	\$ 2,345.76	\$ 2,902.88	\$ 1,270.61	\$ 762.37	\$ 254.12	\$ 254.12	\$ -	\$ 5,248.65	\$ 6,519.26
MAY	Mequon Water	4,835	\$ 2.001	\$ 9,674.84	\$ 3,481.20	\$ 4,307.99	\$ 1,885.65	\$ 1,131.39	\$ 377.13	\$ 377.13	\$ -	\$ 7,789.19	\$ 9,674.84
JUNE	Mequon Water	4,394	\$ 2.001	\$ 8,792.39	\$ 3,163.68	\$ 3,915.05	\$ 1,713.66	\$ 1,028.20	\$ 342.73	\$ 342.73	\$ -	\$ 7,078.73	\$ 8,792.39
JULY	Mequon Water	5,160	\$ 2.001	\$ 10,325.16	\$ 3,715.20	\$ 4,597.56	\$ 2,012.40	\$ 1,207.44	\$ 402.48	\$ 402.48	\$ -	\$ 8,312.76	\$ 10,325.16
AUGUST	Mequon Water	6,001	\$ 2.001	\$ 12,008.00	\$ 4,320.72	\$ 5,346.89	\$ 2,340.39	\$ 1,404.23	\$ 468.08	\$ 468.08	\$ -	\$ 9,667.61	\$ 12,008.00
SEPTEMBER	Mequon Water	6,122	\$ 2.001	\$ 12,250.12	\$ 4,407.84	\$ 5,454.70	\$ 2,387.59	\$ 1,432.55	\$ 477.52	\$ 477.52	\$ -	\$ 9,862.53	\$ 12,250.12
OCTOBER	Mequon Water	4,174	\$ 2.001	\$ 8,352.17	\$ 3,005.28	\$ 3,719.03	\$ 1,627.86	\$ 976.72	\$ 325.57	\$ 325.57	\$ -	\$ 6,724.31	\$ 8,352.17
NOVEMBER			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
DECEMBER			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTALS		44,061		\$ 87,124.01	\$ 31,349.58	\$ 38,590.63	\$ 17,183.77	\$ 10,310.27	\$ 3,436.75	\$ 3,436.75	\$ 500.00	\$ 70,440.23	\$ 87,624.00