

THE TOWNSHIP OF NAIRN AND HYMAN

2014 TO 2023

FINANCIAL PLAN FOR THE NAIRN CENTRE WATER TREATMENT AND DISTRIBUTION SYSTEM.



TOWNSHIP OF NAIRN AND HYMAN

The Township of Nairn and Hyman Water Treatment and Distribution System Financial Plan

EXECUTIVE SUMMARY

Expected Achievements	3
Operating Plan	3
Funding Plan	4
Financial Plan	4

INTRODUCTION

Ministry of the Environment Plans Regulation 453/07	5
Ontario Clean Water Agency	5

OPERATING PLANS

Operations	6
Capital Costs	6
Debt Management	7
Total Cash Expenditures	7

FUNDING PLAN

Operating Revenues	8
Consumption	8
Water Rates	8
Summary of Revenues	8
New Debt	9

FINANCIAL PLAN

Financial Plan	9
Tangible Capital Assets	9

SUMMARY	10
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FEEDBACK AND CONTINUIOUS IMPROVEMENT	10
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EXECUTIVE SUMMARY

In 2007, the Ministry of the Environment released Regulation 453/07 requiring all municipalities to complete a financial plan for their drinking water system. The Township of Nairn and Hyman encloses its Financial Plan herein. It is prepared in accordance with the MOE Financial Plans Regulation. (O.Reg 453/07)

In preparing the financial plan, the financial impacts of the drinking water system have been considered. Based on the Projected Financial Statements and the assumptions herein, the Township of Nairn and Hyman will be financially viable and will provide safe drinking water for both the short and long term. This plan will be based primarily on the following projections.

- 1) Township of Nairn and Hyman Funding Plan (Projected Revenues) for the time period 2014-2023 (appendix A).
- 2) Township of Nairn and Hyman Projected Cash Expenditures for the time period 2014-2023 (appendix B).
- 3) Township of Nairn and Hyman OCWA 10 year Capital Forecast 2014-2023 (live document) (appendix C).
- 4) Township of Nairn and Hyman Asset Management Plan Water Treatment and Distribution. (appendix D).
- 5) Township of Nairn and Hyman Schedule of Tangible Capital Assets (appendix E).

EXPECTED ACHIEVEMENTS

Through the process of developing the Financial Plan, the Township of Nairn and Hyman set out to achieve the following:

Financial Viability.

Limit overall water costs and remain affordable.

Provide safe drinking water in short and long term.

Enable the long term plan for capital renewal to be realized.

Achieve full cost recovery over the long term.

Maintain current service levels.

OPERATING PLAN

The operating plan includes its day to day operations maintaining and administering the drinking water system in Nairn Centre, the capital plan that will incur to renew and replace its existing capital infrastructure and debt management, being the resulting debt repayments and interest charges that are incurred to achieve the above. Key highlights from the operating plan include:

Operating costs are projected to increase approximately 2.0% in 2015 and maintain an inflationary increase of 2.0% thereafter.

Total Capital Infrastructure Investment for the drinking water system up to 2023 is expected to be around \$534,720.

Although on an annual basis recommended capital renewal may be deferred, the Financial Plan will allow for capital investments as recommended in the capital forecasted plan and the Asset Management Plan, ensuring the water system will be able to provide safe, sustainable drinking water for both the short and long term.

There is currently no existing debt.

FUNDING PLAN

Appendix A, the Township of Nairn and Hyman Projected Revenues, was developed to determine the most appropriate balance of operating revenues, short term government funding programs, Township reserves and debt financing.

The achievements of the funding plan include:

- Through annual budgeting processes, operating revenues will increase over time to cover operating, capital debt and interest costs;
- Water rates will continue to be affordable over the long term;
- Water consumption is assumed to maintain current levels and maintain consistent levels thereafter with a 1 – 2% variance;
- The plan does not rely on municipal tax dollars to run the water system;
- Government funding is expected to be utilized for portions of some capital upgrades throughout the duration of this plan;
- Capital renewal will be financed through water based revenues, transfers from water reserves, Federal Gas Tax revenue as applicable and long term debt;
- Through a combination of operating revenues, one time government funding programs and new debt, it is projected the Township of Nairn and Hyman will achieve sufficient cash receipts to cover its annual cash expenditures for the Nairn Centre Water System;
- Revenue levels will be annually evaluated and gradually increased to allow the Township of Nairn and Hyman to invest in a reserve fund for significant future capital investments, if necessary.

FINANCIAL PLAN

Appendix B is the Township of Nairn and Hyman Projected Cash Expenditures for the time period 2014 – 2023, for the municipality. This statement includes a projection of operational expenses, a projection of cash flow and a projection for capital investment for the periods of 2014 to 2023.

Actual results will vary from the projection herein and the differences may be material.

This is a living document which will require continuous review and updates.

INTRODUCTION

The Financial Plan for the Township of Nairn and Hyman Water and Distribution System was prepared in accordance with regulation 435/07. The process in developing this plan was focused on achievement of balance between maintaining the water system in a safe and effective manner, while limiting expenditure and water rate increases. A flexible and gradual approach was utilized to achieve financial viability, recognizing that, the utilization of one-time funding sources for the purpose of sustaining the water system is limited, and the reliance on debt to support all future capital expenditures is unrealistic.

Considering historical trends and future needs, ten year financial projections to the year 2023 have been prepared. These projections will allow the Township of Nairn and Hyman to achieve financial viability, while providing safe drinking water over the short and long term.

MINISTRY OF ENVIRONMENT FINANCIAL PLANS REGULATION 435/07

Drinking water system owners are required to prepare a financial plan for their drinking water system as part of the new Municipal Drinking Water Licensing Program as set out in Part V of the Safe Drinking Water Act (SDWA). The financial plan must be prepared in accordance with the Ministry of the Environment Financial plans Regulation 453/07.

Regulation 453/07 required the following:

The financial plan be approved by resolution of Council that specifies that the drinking water system is financially viable.

Full-cost accounting be utilized to determine the true cost of the drinking water system.

Projections are to be at least six years ahead, but recommends a long term plan.

ONTARIO CLEAN WATER AGENCY

The Ontario Clean Water Agency operates and maintains the water system infrastructure in conjunction with Office Administration and the Publics Works Department of the Township fo Nairn and Hyman.

The Ontario Clean Water Agency in conjunction with the Township of Nairn and Hyman's top priority is to provide a safe, sustainable supply of water, providing public health protection, fire protection and support for the local economy, all contributing to a high quality of life. Through OCWA's Quality management System, the Agency is better able

to manage risk, identify operational efficiencies, enhance staff knowledge and create public awareness of its commitment to provide safe drinking water.

OPERATING PLAN

Through the achievement of its operational plan, The Ontario Clean Water Agency will provide safe drinking water in the short and long term. The operating plan includes its day to day operations maintaining and administering the drinking water system and capital investment forecasting that will incur to renew and replace its existing capital infrastructure. The Township of Nairn and Hyman will manage the financial aspect of renewing and replacing its existing capital infrastructure, including debt and reserves management.

OPERATIONS

The Ontario Clean Water Agency and its predecessors, has operated the water system without major incident, providing safe drinking water for over 19 years to the residents of Nairn Centre. The Township of Nairn and Hyman has maintained stable operating costs for the treatment and supply of its drinking water over that time frame.

Some of the Township's key operating expenses include the contracting and maintenance services (OCWA), utilities, materials, supplies, and administrative costs. Annual Operating Expenses including the fore-mentioned are projected to be approximately \$134,030 in 2014 with an approximate 2% increase in 2015 and the costs are expected to increase by approximately 2% thereafter.

KEY ASSUMPTIONS IN PROJECTIONS

The detailed operating expenses are outlined in Township of Nairn and Hyman's Projected Cash Expenditures as part of **Appendix B**. In these projections, it is assumed that the operating expenses will increase by 2% in 2015, and maintain an inflationary increase of 2.0% thereafter.

CAPITAL COSTS

To enable the delivery of safe drinking water to all, the water system holds a holding tank in the water treatment plant. The Distribution System houses 6.518 km of distribution watermain, 49 distribution valves, 144 service connections, and 47 fire hydrants. These assets are considered capital.

The Ontario Clean Water Agency has developed a 10 year capital plan to forecast required or recommended activities within the water system in order to ensure that these existing assets are maintained, renewed or upgraded as required. Over the long term it is not believed that there will be a need for large upgrades to the water system. The 10 year forecast is a live document and may be updated annually.

The Township of Nairn and Hyman has an Asset Management Plan completed for the Nairn Centre Water Treatment and Distribution system in 2013 according to the PSAB Standards to further establish the need to renew or upgrade assets in the water system. The report clearly outlines the timelines for distribution asset renewal or replacement. The cost effective rehabilitation or replacement strategy will be based on watermain age, material of pipe, size, soil conditions, and pressure related issues. It will also be coordinated with road projects. For further information on general capital forecasts, please refer to the Asset Management Plan (Appendix D) and OCWA 10 Year Capital Forecasting Spreadsheet. (Appendix C)

FUTURE SIGNIFICANT CAPITAL COSTS

Looking beyond the 10 year cycle, this plan will be updated continuously to allow the Township to predict and prepare for its significant capital investments, such as watermain replacement and plant upgrades.

KEY ASSUMPTIONS IN PROJECTIONS

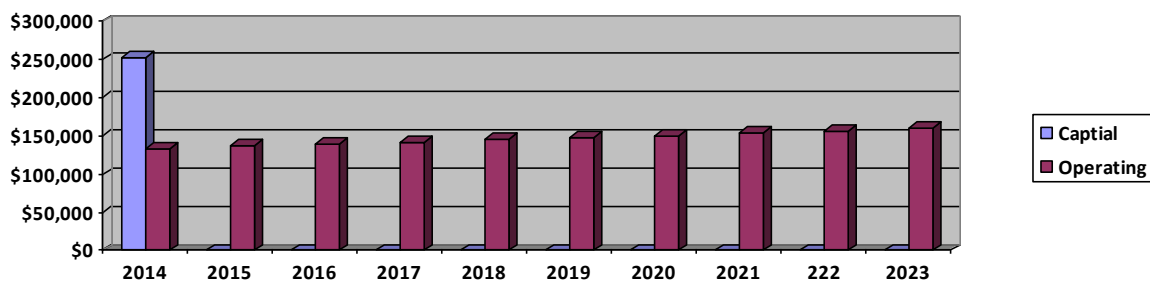
Capital projects are planned approximately one year in advance with the exception of emergency repair/upgrade needs. Some projects are deferred for short periods of time, but for most part incurred capital plans are from previously developed forecasts.

DEBT MANAGEMENT

Debt management is the ability to repay debt over time, including both principal payments and interest charges. Currently the Nairn Centre Water Treatment and Distribution System has no new debt, although it is projected that new debt may be required for future capital upgrades.

TOTAL CASH EXPENDITURES

The Township of Nairn and Hyman has cash expenditures, including operating expenses as well as capital costs. These expenditures are projected to be \$134,030 per year in the short term and increase thereafter. All aggregate cash expenditures are highlighted in the chart below. The aggregate is not from one projected statement, but from various statements to illustrate the cash required to sustain a safe drinking water system.



FUNDING PLAN

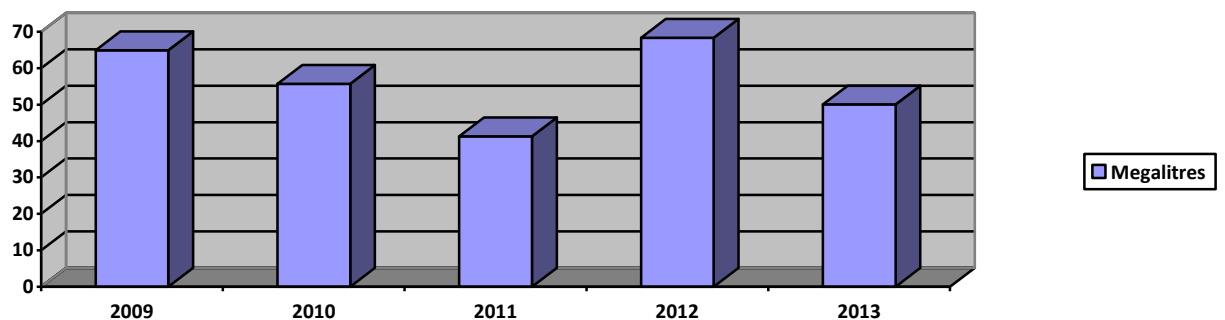
To fund critical expenditures, the Township of Nairn and Hyman will rely on a blend of operating revenues, reserve funds, short term one-time government funding, new debt financing and as applicable, Federal Gas Tax Revenues.

OPERATING REVENUES

Operating revenues include user fees and other charges or receipts. The majority of the operating revenues are achieved as a result of waterworks user fees.

CONSUMPTION

Since 2009 water consumption has decreased 23% from 64.929 mega liters to 50.020 mega liters in 2013. The chart below illustrates the consumption rates in mega liters from 2009 to 2013.

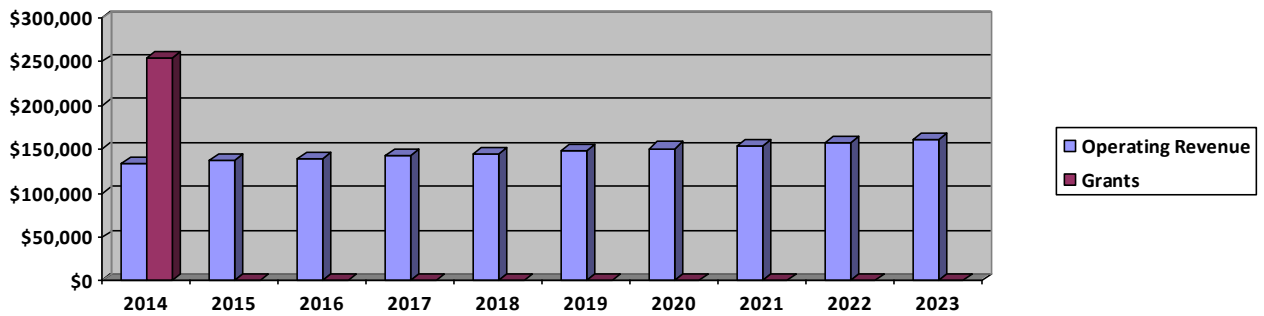


WATER RATES

The current water rate structure is a flat rate for residential users and metered rates for commercial users billed quarterly to users based on annual review by Township Council. The system is fair and rates are expected to increase slightly over the years of this plan.

SUMMARY OF OPERATING REVENUES

Over the projected period, operating revenues are expected to increase 20% to \$160,180 in 2023 from \$134,030 in 2014. Although one time government funding has not been assumed in creating a sustainable model, it has been projected in the short term as cash expenditures. The graph illustrates the projected operating revenues.



NEW DEBT

While gradual rate increases will be required to increase operating revenues, there may still be monies required to cover expenditures for capital improvement to the drinking water system. In this financial plan, through careful consideration, it is projected that new debt may be required.

FINANCIAL PLAN

The financial impacts of the drinking water system have been taken into consideration through the projected cost and revenue statements produced for this report. The intent of these statements are to include a full cost recovery strategy, which will include all associated costs of the drinking water system including operations, financial and capital.

These overviews reflect the Township of Nairn and Hyman estimates and assumptions, related to the operations of the water system and are derived from historical data and future expectations for the drinking water system requirements.

Actual results may vary from these projections and the difference may be material. The financial plan will be updated as accounting policies and key assumptions change.

TANGIBLE CAPITAL ASSETS – NET BOOK VALUE

Consideration of the value of tangible capital assets is part of PSAB compliance. Water systems have a great deal of resources tied up in tangible capital assets and managing these assets is critical to maintaining current levels of service. Tangible capital assets are constantly decreasing in value as the assets age. This is termed amortization. An increase in tangible capital assets is an indication that new assets have been added to the water system. Appendix E summarizes the tangible capital assets for the Nairn Centre Water System from 2012 and 2013 with projections to 2023.

SUMMARY

The financial plan has been developed in accordance with the MOE Financial Plans Regulation (O.Reg 435/07). The process in developing this plan has focused on the achievement of a balance between maintaining the water system in a safe and effective manner, while limiting expenditure and water rate increases. A flexible and gradual approach has been utilized to achieve viability.

ACHIEVE FINANCIAL VIABILITY
LIMITS OVERALL WATER COSTS TO CONSUMERS
PROVIDES SAFE DRINKING WATER IN SHORT TERM AND LONG TERM
DEVELOPS A LONG TERM PLAN FOR CAPITAL RENEWAL
ACHIEVES FULL COST RECOVERY OVER THE LONG TERM
MAINTAINS CURRENT SERVICE LEVELS

FEEDBACK AND CONTINUIOUS IMPROVEMENT

The financial plan must be updated every five years but it is recommended to be updated frequently to reflect changes in operations, economic climate, financing costs, consumption and pricing.

The Corporation of the
Township of Nairn and Hyman
Nairn Centre Water
Appendix A - 2014 to 2023 Forecasted Revenues

	2014 Forecast	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast	2021 Forecast	2022 Forecast	2023 Forecast
Water Residential User Fees	\$102,870	\$104,927	\$107,026	\$109,167	\$111,350	\$113,577	\$115,849	\$118,166	\$120,529	\$122,940
Water Apartments User Fees	\$9,352	\$9,539	\$9,730	\$9,925	\$10,124	\$10,326	\$10,533	\$10,744	\$10,959	\$11,178
Water Garages User Fees	\$1,627	\$1,660	\$1,693	\$1,727	\$1,762	\$1,797	\$1,833	\$1,870	\$1,907	\$1,945
Water Restaurants User Fees	\$14,915	\$15,213	\$15,517	\$15,827	\$16,144	\$16,467	\$16,796	\$17,132	\$17,475	\$17,825
Water Clinic User Fees	\$2,013	\$2,053	\$2,094	\$2,136	\$2,179	\$2,223	\$2,267	\$2,312	\$2,358	\$2,405
Water Business User Fees	\$3,253	\$3,318	\$3,384	\$3,452	\$3,521	\$3,591	\$3,663	\$3,736	\$3,811	\$3,887
Water Misc. Fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ontario Community Infrastructure Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Municipal Infrastructure Investment Grant	\$228,260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from Reserves - Mill Grant	\$25,363	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Transfer from Reserves - OCI Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Revenue	\$387,653	\$136,710	\$139,444	\$142,234	\$145,080	\$147,981	\$150,941	\$153,960	\$157,039	\$160,180

The Corporation of the
Township of Nairn and Hyman
Nairn Centre Water
Appendix B - 2014 to 2023 Forecasted Expenditures

	2014 Forecast	2015 Forecast	2016 Forecast	2017 Forecast	2018 Forecast	2019 Forecast	2020 Forecast	2021 Forecast	2022 Forecast	2023 Forecast
Water - Contracted Services	\$96,629	\$98,561	\$100,532	\$102,543	\$104,594	\$106,686	\$108,820	\$110,996	\$113,216	\$115,480
Water - Railway Leases	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120	\$120
Water - Electricity	\$16,000	\$16,320	\$16,646	\$16,979	\$17,319	\$17,665	\$18,018	\$18,378	\$18,746	\$19,121
Water - Natural Gas Heating	\$3,000	\$3,060	\$3,121	\$3,183	\$3,247	\$3,312	\$3,378	\$3,446	\$3,515	\$3,585
Water - Lead Testing	\$200	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
Water - Line Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water - Plant Repair & Maintenance	\$4,181	\$4,265	\$4,350	\$4,437	\$4,526	\$4,617	\$4,709	\$4,803	\$4,899	\$4,997
Water - Hydrant Maintenance	\$500	\$510	\$520	\$530	\$541	\$552	\$563	\$574	\$585	\$597
Water - Building Maintenance	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water - Reserves	\$0	\$956	\$1,117	\$1,282	\$1,448	\$1,616	\$1,790	\$1,967	\$2,147	\$2,331
Water - Telephone	\$400	\$408	\$416	\$424	\$432	\$441	\$450	\$459	\$468	\$477
Water - Emergency Water Supply	\$500	\$510	\$520	\$530	\$541	\$552	\$563	\$574	\$585	\$597
Water - User Fee Write Offs	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water - OCWA Call Out Fees	\$5,000	\$5,100	\$5,202	\$5,306	\$5,412	\$5,520	\$5,630	\$5,743	\$5,858	\$5,975
Water - Payment Discounts	\$7,500	\$6,800	\$6,800	\$6,800	\$6,800	\$6,800	\$6,800	\$6,800	\$6,800	\$6,800
Water - Capital - Vertical Turbine Pumps	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water - Capital - SCADA	\$253,623	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Expenditures	\$387,653	\$136,710	\$139,444	\$142,234	\$145,080	\$147,981	\$150,941	\$153,960	\$157,039	\$160,180

The Corporation of the
Township of Nairn and Hyman
Nairn Centre Water
Appendix C - Capital and Maintenance Projections 2014 - 2023

ITEM	SYSTEM DESCRIPTION	DESCRIPTION	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	COMMENTS
Nairn Water System													
1	Generator Inspection - Maintenance	Capital	\$850	\$876	\$893	\$911	\$929	\$948	\$967	\$986	\$1,006	\$1,026	Annual
2	Building louver - HVAC Inspection	Capital	\$1,000	\$0	\$0	\$1,000	\$0	\$0	\$1,000	\$0	\$0	\$1,000	Every two years
3	Annual Electrical Inspection/Upgrades	Capital	\$550	\$567	\$583	\$601	\$619	\$638	\$657	\$676	\$697	\$718	Annual
4	Miscellaneous Plant tools/equipment	Capital	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159	\$1,194	\$1,230	\$1,267	\$1,305	Annual
5	Lead Sampling - Spring	Capital	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	Regulated
6	Lead Sampling - Fall	Capital	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	Regulated
7	DWQMS On Site Audit	Capital	\$0	\$0	\$3,500	\$0	\$0	\$3,500	\$0	\$0	\$0	\$3,500	
8	DWQMS Desktop Audit	Capital	\$0	\$2,500	\$0	\$0	\$2,500	\$0	\$0	\$0	\$2,500	\$0	
9	Hypo chemical feed pumps	Capital	\$3,200	\$0	\$3,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
10	Fluoride chemical feed pumps	Capital	\$3,200	\$0	\$3,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
11	Folymer chemical feed pumps	Capital	\$3,200	\$0	\$3,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
12	Misc. PVC fittings	Capital	\$1,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Replacement probe for Fluoride	Capital	\$0	\$2,800	\$0	\$0	\$0	\$0	\$3,000	\$0	\$0	\$0	\$0 as required (min 5 years)
14	Replacement fprobe for chlorine	Capital	\$0	\$0	\$3,100	\$0	\$0	\$0	\$0	\$3,410	\$0	\$0	\$0 as required (min 5 years)
15	Emergency breakdown repairs	Capital	\$8,326	\$8,576	\$8,833	\$9,098	\$9,371	\$9,652	\$9,942	\$10,240	\$10,547	\$10,864	
16	SCADA System for Operational Control	Capital	\$253,623	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 Grant Funding
17	Verbatim Alarm Dialer	Capital	\$13,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Filter System Servicing 1 & 2	Capital	\$0	\$0	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0 Every 15 years
19	Clear Well Cleaning	Capital	\$0	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0 As required
20	Raw Water Spare Pump	Capital	\$0	\$0	\$17,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	Low Lift Servicing	Capital	\$0	\$0	\$0	\$0	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0 Every 10 years
22	VFD's for Vertical Turbines	Capital	\$13,125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	UPS Replacements	Capital	\$550	\$0	\$550	\$0	\$550	\$0	\$550	\$0	\$550	\$0	
Distribution													
1	Hydrant inspections		\$0	\$4,250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
TOTALS			\$303,874	\$20,799	\$46,120	\$42,903	\$20,295	\$31,097	\$17,510	\$16,742	\$16,767	\$18,613	

The Corporation of the
Township of Nairn and Hyman
Nairn Centre Water
Appendix D - Asset Management Plan
Page 1

Asset ID	Department	Asset Category	Asset Description	Rate	Method	Cost				Accumulated Depreciation			NBV				
						12/31/12	Additions	Disposals	Writedowns	12/12/13	12/12/12	Adjustments	Depreciation	12/31/13	12/12/13	12/31/12	
NWFE008WF	Nairn Water	Waterworks	Water Treatment Plant	2%	2	S.L.	407,955.00	59,369.00			467,324.00	126,466.00		8,753.00	135,219.00	332,105.00	281,489.00
NWTF001DP	Nairn Water	Waterworks	Driveway Faring	10%	2	S.L.	3,500.00				3,500.00	3,500.00		0.00	3,500.00	0.00	0.00
NWTF002YP	Nairn Water	Waterworks	Yard Piping	2%	2	S.L.	91,445.00				91,445.00	28,348.00		1,829.00	30,177.00	61,268.00	63,097.00
NWTF003SS	Nairn Water	Waterworks	Septic System	2%	2	S.L.	7,000.00				7,000.00	2,170.00		140.00	2,310.00	4,690.00	4,830.00
NWTF004PS	Nairn Water	Waterworks	Low LR Pumping Station	2%	2	S.L.	47,548.00				47,548.00	14,740.00		951.00	15,691.00	31,857.00	32,808.00
NWTF005ME	Nairn Water	Waterworks	Mechanical - Water Treatm	2%	2	S.L.	371,982.00				371,982.00	115,315.00		7,440.00	122,755.00	249,227.00	256,667.00
NWTF006EL	Nairn Water	Waterworks	Electrical - Water Treatme	2%	2	S.L.	283,620.00				283,620.00	87,921.00		5,672.00	93,593.00	190,027.00	195,699.00
NWFL001WM	Nairn Water	Waterworks	Water Mains - Ferry Lane	2%	2	S.L.	35,878.58				35,878.58	11,123.58		718.00	11,841.58	24,037.00	24,755.00
NWFL002VA	Nairn Water	Waterworks	Valves - Ferry Lane near W	3%	2	S.L.	4,472.44				4,472.44	2,310.44		149.00	2,459.44	2,013.00	2,162.00
NWFL003HY	Nairn Water	Waterworks	Hydrants on Ferry Lane ne	3%	2	S.L.	6,638.97				6,638.97	2,572.97		166.00	2,738.97	3,900.00	4,066.00
NWFL004PT	Nairn Water	Waterworks	Parts on Ferry Lane near	5%	2	S.L.	1,420.32				1,420.32	1,100.32		71.00	1,171.32	249.00	320.00
NWFM005WM	Nairn Water	Waterworks	Watermains - Ferry to eas	2%	2	S.L.	11,341.69				11,341.69	3,516.69		227.00	3,743.69	7,598.00	7,825.00
NWFM006HY	Nairn Water	Waterworks	Hydrant between Ferry La	3%	2	S.L.	2,212.99				2,212.99	856.99		55.00	911.99	1,301.00	1,356.00
NWFM007SC	Nairn Water	Waterworks	Service connection pipes/	5%	2	S.L.	4,789.61				4,789.61	3,710.61		239.00	3,949.61	840.00	1,079.00
NWMC008WM	Nairn Water	Waterworks	Watermains - Mchityre St	2%	2	S.L.	39,635.41				39,635.41	12,287.41		793.00	13,080.41	26,555.00	27,348.00
NWMC009VA	Nairn Water	Waterworks	Valves - Mchityre Street (F	3%	2	S.L.	1,694.08				1,694.08	874.08		56.00	930.08	764.00	820.00
NWMC010HY	Nairn Water	Waterworks	Hydrants - Mchityre Stree	3%	2	S.L.	6,638.97				6,638.97	2,572.97		166.00	2,738.97	3,900.00	4,066.00
NWMC011SC	Nairn Water	Waterworks	Service Connection pipes	5%	2	S.L.	7,073.40				7,073.40	5,482.40		354.00	5,836.40	1,237.00	1,591.00
NWMC012WM	Nairn Water	Waterworks	Watermains - Minto Stree	2%	2	S.L.	13,408.54				13,408.54	4,156.54		268.00	4,424.54	8,984.00	9,252.00
NWMC013VA	Nairn Water	Waterworks	Valves - Minto Street (from	3%	2	S.L.	609.80				609.80	313.80		20.00	333.80	276.00	296.00
NWMC014HY	Nairn Water	Waterworks	Hydrant on Minto Street (F	3%	2	S.L.	2,212.99				2,212.99	856.99		55.00	911.99	1,301.00	1,356.00
NWMC015SC	Nairn Water	Waterworks	Service Connection Pipes	5%	2	S.L.	2,638.17				2,638.17	2,045.17		132.00	2,177.17	461.00	593.00
NWMC016WM	Nairn Water	Waterworks	Watermains - Minto Stree	2%	2	S.L.	27,386.29				27,386.29	8,490.29		548.00	9,038.29	18,348.00	18,896.00
NWMC017VA	Nairn Water	Waterworks	Valves - Minto St and Gay	3%	2	S.L.	1,876.82				1,876.82	970.82		63.00	1,033.82	843.00	906.00
NWMC018HY	Nairn Water	Waterworks	Hydrants - Minto Street an	3%	2	S.L.	4,425.98				4,425.98	1,715.98		111.00	1,826.98	2,599.00	2,710.00
NWMC019SC	Nairn Water	Waterworks	Service Connection pipes/	5%	2	S.L.	8,922.28				8,922.28	6,914.28		446.00	7,360.28	1,562.00	2,008.00
NWCH020WM	Nairn Water	Waterworks	Watermains - Chown St (M	2%	2	S.L.	7,991.12				7,991.12	2,478.12		160.00	2,638.12	5,353.00	5,513.00
NWCH021HY	Nairn Water	Waterworks	Hydrants - Chown St (from	3%	2	S.L.	2,212.99				2,212.99	856.99		55.00	911.99	1,301.00	1,356.00
NWCH022SC	Nairn Water	Waterworks	Service Connect Pipes/	5%	2	S.L.	2,101.67				2,101.67	1,628.67		105.00	1,733.67	368.00	473.00
NWMC023WM	Nairn Water	Waterworks	Watermains - Minto St (Ch	2%	2	S.L.	85,506.66				85,506.66	26,506.66		1,710.00	28,216.66	57,290.00	59,000.00
NWMC024VA	Nairn Water	Waterworks	Valves - Minto St (Chown	33%	2	S.L.	3,841.54				3,841.54	3,841.54		0.00	3,841.54	0.00	0.00
NWMC024HY	Nairn Water	Waterworks	Hydrants - Minto St (Chown	3%	2	S.L.	8,851.96				8,851.96	3,428.96		221.00	3,649.96	5,202.00	5,423.00
NWMC025SC	Nairn Water	Waterworks	Service Connect Pipes/	5%	2	S.L.	16,977.42				16,977.42	13,157.42		849.00	14,006.42	2,971.00	3,820.00
NWSP026WM	Nairn Water	Waterworks	Watermains - Spensor La	2%	2	S.L.	32,866.07				32,866.07	10,187.07		657.00	10,844.07	22,022.00	22,679.00

The Corporation of the
Township of Naim and Hyman
Naim Centre Water
Appendix D - Asset Management Plan
Page 2

Asset ID	Department	Asset Category	Asset Description	Rate	Method	Cost			Accumulated Depreciation		NBV	NBV				
						12/31/12	Additions	Disposals	Writedowns	12/12/13	12/12/12	Adjustments	Depreciation	12/31/13	12/31/12	
NWSP027YA	Naim Water	Waterworks	Valves - Spener Lane (Mn	3%	2	S.L.	3,170.16				3,170.16	1,639.16	106.00	1,745.16	1,425.00	1,531.00
NWSP028HY	Naim Water	Waterworks	Hydrants - Spener Lane	3%	2	S.L.	6,638.97				6,638.97	2,572.97	166.00	2,738.97	3,900.00	4,066.00
NWSP029GC	Naim Water	Waterworks	Service Connect pipes/ap	5%	2	S.L.	2,946.74				2,946.74	2,282.74	147.00	2,429.74	517.00	664.00
NWSP030HW	Naim Water	Waterworks	Highway Crossing - Spenc	2%	2	S.L.	23,292.97				23,292.97	7,220.97	466.00	7,686.97	15,606.00	16,072.00
NWSP031RW	Naim Water	Waterworks	Railway Crossing - Spenc	2%	2	S.L.	14,821.44				14,821.44	4,593.44	296.00	4,889.44	9,932.00	10,228.00
NWCP032WM	Naim Water	Waterworks	Water Main Railway Crossing	2%	2	S.L.	2,699.52				2,699.52	836.52	54.00	890.52	1,809.00	1,863.00
NWCP033VA	Naim Water	Waterworks	Valves - Railway Crossing	3%	2	S.L.	2,168.56				2,168.56	1,119.56	72.00	1,191.56	977.00	1,049.00
NWCP034WM	Naim Water	Waterworks	Watermains - CPR Crossi	2%	2	S.L.	12,464.40				12,464.40	3,863.40	249.00	4,112.40	8,352.00	8,601.00
NWFR035WM	Naim Water	Waterworks	Watermains - Front Street	2%	2	S.L.	43,910.09				43,910.09	13,611.09	878.00	14,489.09	29,421.00	30,299.00
NWFR036VA	Naim Water	Waterworks	Valves - Front Street (Spe	3%	2	S.L.	9,044.94				9,044.94	4,671.94	301.00	4,972.94	4,072.00	4,373.00
NWFR037HY	Naim Water	Waterworks	Hydrants - Front Street (S	3%	2	S.L.	2,212.99				2,212.99	856.99	55.00	911.99	1,301.00	1,356.00
NWFR038GC	Naim Water	Waterworks	Service Connect pipes/ap	5%	2	S.L.	2,154.92				2,154.92	1,670.92	108.00	1,778.92	376.00	484.00
NWST039WM	Naim Water	Waterworks	Watermains - Stanley Ste	2%	2	S.L.	13,420.75				13,420.75	4,158.75	268.00	4,426.75	8,994.00	9,262.00
NWST040HY	Naim Water	Waterworks	Hydrants - Stanley Street	3%	2	S.L.	4,425.98				4,425.98	1,715.98	111.00	1,826.98	2,599.00	2,710.00
NWST041SC	Naim Water	Waterworks	Service connect pipes, ap	5%	2	S.L.	3,709.85				3,709.85	2,873.85	185.00	3,058.85	651.00	836.00
NWTA042WM	Naim Water	Waterworks	Watermains - Taylor Street	2%	2	S.L.	15,251.40				15,251.40	4,727.40	305.00	5,032.40	10,219.00	10,524.00
NWTA043HY	Naim Water	Waterworks	Hydrants - Taylor St. N. (F	3%	2	S.L.	4,425.98				4,425.98	1,715.98	111.00	1,826.98	2,599.00	2,710.00
NWTA043GC	Naim Water	Waterworks	Service connect pipes, ap	5%	2	S.L.	3,556.22				3,556.22	2,756.22	178.00	2,924.22	622.00	800.00
NWGM044WA	Naim Water	Waterworks	Watermains - Smith St. (F	2%	2	S.L.	22,454.96				22,454.96	6,960.96	449.00	7,409.96	15,045.00	15,494.00
NWGM045VA	Naim Water	Waterworks	Valves - Smith Street (Fro	33%	2	S.L.	1,585.08				1,585.08	1,585.08	0.00	1,585.08	0.00	0.00
NWGM046HY	Naim Water	Waterworks	Hydrants - Smith Street (F	3%	2	S.L.	2,212.99				2,212.99	856.99	55.00	911.99	1,301.00	1,356.00
NWGM047GC	Naim Water	Waterworks	Service Connect pipes, a	5%	2	S.L.	4,033.39				4,033.39	3,126.39	202.00	3,328.39	705.00	907.00
NWGM048HW	Naim Water	Waterworks	Highway Crossing - Smith	2%	2	S.L.	23,036.16				23,036.16	7,142.16	461.00	7,603.16	15,433.00	15,894.00
NWHA049WM	Naim Water	Waterworks	Watermains - Hall Street (2%	2	S.L.	18,956.13				18,956.13	5,876.13	379.00	6,255.13	12,701.00	13,080.00
NWHA050HY	Naim Water	Waterworks	Hydrants - Hall Street (Fro	2%	2	S.L.	4,425.98				4,425.98	1,373.98	89.00	1,462.98	2,963.00	3,052.00
NWHA051SC	Naim Water	Waterworks	Service Connect pipes, a	5%	2	S.L.	5,875.62				5,875.62	4,554.62	294.00	4,848.62	1,027.00	1,321.00
NWNE052WM	Naim Water	Waterworks	Watermains - Nelson Street	2%	2	S.L.	7,700.22				7,700.22	2,387.22	154.00	2,541.22	5,159.00	5,313.00
NWNE053HY	Naim Water	Waterworks	Hydrants - Nelson Street (3%	2	S.L.	4,425.98				4,425.98	1,715.98	111.00	1,826.98	2,599.00	2,710.00
NWNE054GC	Naim Water	Waterworks	Service connect pipes, ap	5%	2	S.L.	3,533.49				3,533.49	2,739.49	177.00	2,916.49	617.00	794.00
NWMC055WM	Naim Water	Waterworks	Watermains - McDonald S	2%	2	S.L.	72,569.34				72,569.34	22,495.34	1,451.00	23,946.34	48,623.00	50,074.00
NWMC056VA	Naim Water	Waterworks	Valves - McDonald Street	3%	2	S.L.	2,012.14				2,012.14	1,039.14	67.00	1,106.14	906.00	973.00
NWMC057HY	Naim Water	Waterworks	Hydrants - McDonald Ste	3%	2	S.L.	6,638.97				6,638.97	2,572.97	166.00	2,738.97	3,900.00	4,066.00
NWMC058GC	Naim Water	Waterworks	Service connect pipes, ap	5%	2	S.L.	7,185.01				7,185.01	5,568.01	359.00	5,927.01	1,258.00	1,617.00
NWFR059WM	Naim Water	Waterworks	Watermains - Front Street	2%	2	S.L.	11,641.25				11,641.25	3,609.25	233.00	3,842.25	7,799.00	8,032.00
NWFR060HY	Naim Water	Waterworks	Hydrants - Front Street (M	3%	2	S.L.	2,212.99				2,212.99	856.99	55.00	911.99	1,301.00	1,356.00

The Corporation of the
Township of Naim and Hyman
Naim Centre Water
Appendix D - Asset Management Plan
Page 3

Asset ID	Department	Asset Category	Asset Description	Rate	Method	Cost				Accumulated Depreciation		NBV	NBV				
						12/31/12	Additions	Disposals	Writedowns	12/12/13	12/12/12	Adjustments	Depreciation	12/31/13	12/12/13	12/31/12	
NWFR61SC	Naim Water	Waterworks	Service connect, pipes, ap	5%	2	S.L.	1,392.14				1,392.14	1,080.14	70.00	1,150.14	242.00	312.00	
NWMC62SC	Naim Water	Waterworks	Service connect, pipes, ap	5%	2	S.L.	3,287.52				3,287.52	2,546.52	164.00	2,710.52	577.00	741.00	
NWMC63HY	Naim Water	Waterworks	Highway crossing - McDo	2%	2	S.L.	5,272.98				5,272.98	1,632.98	105.00	1,737.98	3,535.00	3,640.00	
NWHW64WM	Naim Water	Waterworks	Watermains - Hwy 17 (Sta	2%	2	S.L.	5,353.92				5,353.92	1,659.92	107.00	1,766.92	3,587.00	3,694.00	
NWHW65VA	Naim Water	Waterworks	Valves - Highway 17 (Sta	3%	2	S.L.	609.80				609.80	313.80	20.00	333.80	276.00	296.00	
NWHW66WM	Naim Water	Waterworks	Watermains - Highway 17	2%	2	S.L.	10,536.14				10,536.14	3,267.14	211.00	3,478.14	7,058.00	7,269.00	
NWHW67VA	Naim Water	Waterworks	Valves - Highway 17 (Spe	3%	2	S.L.	609.80				609.80	313.80	20.00	333.80	276.00	296.00	
NWHW68HY	Naim Water	Waterworks	Hydrants - Highway 17 (S	3%	2	S.L.	2,212.99				2,212.99	856.99	55.00	911.99	1,301.00	1,356.00	
MWHW69SC	Naim Water	Waterworks	Service conn, pipes, appu	5%	2	S.L.	1,099.50				1,099.50	852.50	55.00	907.50	192.00	247.00	
NWSP070WM	Naim Water	Waterworks	Watermains - Spence La	2%	2	S.L.	16,313.40				16,313.40	5,056.40	326.00	5,382.40	10,931.00	11,257.00	
NWSP071VA	Naim Water	Waterworks	Valves - Spence Lane (H	3%	2	S.L.	1,402.34				1,402.34	725.34	47.00	772.34	630.00	677.00	
NWSP073HY	Naim Water	Waterworks	Hydrants - Spence Lane	3%	2	S.L.	8,851.96				8,851.96	3,428.96	221.00	3,649.96	5,202.00	5,423.00	
NWSP075SC	Naim Water	Waterworks	Service connect, pipes, ap	5%	2	S.L.	3,876.84				3,876.84	3,004.84	194.00	3,198.84	678.00	872.00	
NWQM074WM	Naim Water	Waterworks	Water Mains - Smith Stee	2%	2	S.L.	20,569.92				20,569.92	6,375.92	411.00	6,786.92	13,783.00	14,194.00	
NWQM075VA	Naim Water	Waterworks	Valves - Smith Stee (He	3%	2	S.L.	792.54				792.54	408.54	26.00	434.54	358.00	384.00	
NWQM076HY	Naim Water	Waterworks	Hydrants - Smith Stee (H	3%	2	S.L.	4,425.98				4,425.98	1,715.98	111.00	1,826.98	2,599.00	2,710.00	
NWQM077SC	Naim Water	Waterworks	Service connect, pipes, ap	5%	2	S.L.	8,590.52				8,590.52	6,659.52	430.00	7,089.52	1,501.00	1,931.00	
NWMC078WM	Naim Water	Waterworks	Watermains - McCharles S	2%	2	S.L.	32,315.83				32,315.83	10,016.83	646.00	10,662.83	21,653.00	22,299.00	
NWMC079VA	Naim Water	Waterworks	Valves - McCharles Stee	3%	2	S.L.	4,999.56				4,999.56	2,584.56	167.00	2,751.56	2,248.00	2,415.00	
NWMC080HY	Naim Water	Waterworks	Hydrants - McCharles Ste	3%	2	S.L.	8,851.96				8,851.96	3,428.96	221.00	3,649.96	5,202.00	5,423.00	
NWMC081SC	Naim Water	Waterworks	Service conn, pipes, appu	5%	2	S.L.	5,702.28				5,702.28	4,419.28	285.00	4,704.28	998.00	1,283.00	
NWED082WM	Naim Water	Waterworks	Watermains - Edward Ste	2%	2	S.L.	18,322.08				18,322.08	5,678.08	366.00	6,044.08	12,278.00	12,644.00	
NWED083HY	Naim Water	Waterworks	Hydrants - Edward Stee	3%	2	S.L.	4,425.98				4,425.98	1,715.98	111.00	1,826.98	2,599.00	2,710.00	
NWED084SC	Naim Water	Waterworks	Service conn, pipes, appu	5%	2	S.L.	2,471.18				2,471.18	1,916.18	124.00	2,040.18	481.00	555.00	
nwt085sm	Naim Water	Waterworks	Watermains - Taylor Stee	2%	2	S.L.	21,266.36				21,266.36	6,591.36	425.00	7,016.36	14,250.00	14,675.00	
NWT086HY	Naim Water	Waterworks	Hydrants - Taylor Stee (M	3%	2	S.L.	6,638.97				6,638.97	2,572.97	166.00	2,738.97	3,900.00	4,066.00	
NWT087SC	Naim Water	Waterworks	Service conn, pipes, appu	5%	2	S.L.	6,383.83				6,383.83	4,946.83	319.00	5,265.83	1,118.00	1,437.00	
NWGM088WM	Naim Water	Waterworks	Watermains - Smith Stee	2%	2	S.L.	9,833.50				9,833.50	3,049.50	197.00	3,246.50	6,587.00	6,784.00	
NWGM089HY	Naim Water	Waterworks	Hydrants - Smith Stee (M	3%	2	S.L.	2,212.99				2,212.99	856.99	55.00	911.99	1,301.00	1,356.00	
NWGM090SC	Naim Water	Waterworks	Service conn, pipes, appu	5%	2	S.L.	624.32				624.32	483.32	31.00	514.32	110.00	141.00	
Total							2,229,287.47	59,369.00	0.00	0.00	2,289,348.47	820,436.47	0.00	47,623.00	868,827.47	1,503,799.00	1,491,361.00

The Corporation of the
Township of Nairn and Hyman
Nairn Centre Water
Appendix E - Schedule of Tangible Capital Assets

Tangible Capital Asset Summary
Total Waterworks System

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Opening TCA Balance	\$ 2,146,739.47	\$ 2,146,739.47	\$ 2,206,108.47	\$ 2,509,982.47	\$ 2,530,781.47	\$ 2,576,901.47	\$ 2,619,804.47	\$ 2,640,099.47	\$ 2,671,196.47	\$ 2,688,706.47	\$ 2,705,448.47	\$ 2,722,215.47
Additions	\$ -	\$ 59,369.00	\$ 303,874.00	\$ 20,799.00	\$ 46,120.00	\$ 42,903.00	\$ 20,295.00	\$ 31,097.00	\$ 17,510.00	\$ 16,742.00	\$ 16,767.00	\$ 18,613.00
Disposal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Closing TCA Balance	\$ 2,146,739.47	\$ 2,206,108.47	\$ 2,509,982.47	\$ 2,530,781.47	\$ 2,576,901.47	\$ 2,619,804.47	\$ 2,640,099.47	\$ 2,671,196.47	\$ 2,688,706.47	\$ 2,705,448.47	\$ 2,722,215.47	\$ 2,740,828.47
Opening Accumulated Amortization	\$ 737,926.47	\$ 737,926.47	\$ 785,549.47	\$ 848,716.47	\$ 912,091.47	\$ 975,927.47	\$ 1,040,192.47	\$ 1,104,660.47	\$ 1,169,439.47	\$ 1,234,393.47	\$ 1,299,626.47	\$ 1,365,069.47
Amortization Expense	\$ -	\$ 47,623.00	\$ 63,167.00	\$ 63,375.00	\$ 63,836.00	\$ 64,265.00	\$ 64,468.00	\$ 64,779.00	\$ 64,954.00	\$ 65,233.00	\$ 65,443.00	\$ 65,908.00
Amortization Disposals	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Ending Accumulated Amortization	\$ 737,926.47	\$ 785,549.47	\$ 848,716.47	\$ 912,091.47	\$ 975,927.47	\$ 1,040,192.47	\$ 1,104,660.47	\$ 1,169,439.47	\$ 1,234,393.47	\$ 1,299,626.47	\$ 1,365,069.47	\$ 1,430,977.47
Net Book Value	\$ 1,408,813.00	\$ 1,420,559.00	\$ 1,661,266.00	\$ 1,618,690.00	\$ 1,600,974.00	\$ 1,579,612.00	\$ 1,535,439.00	\$ 1,501,757.00	\$ 1,454,313.00	\$ 1,405,822.00	\$ 1,357,146.00	\$ 1,309,851.00