



## **ASSET MANAGEMENT PLAN**

Prepared for

### **THE CORPORATION OF THE TOWNSHIP OF SOUTH ALGONQUIN**

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## EXECUTIVE SUMMARY

The Township of South Algonquin is a small, rural, municipality situated in northern Ontario, in the District of Nipissing. Based on the rural nature of the Municipality, and since a significant portion of its ratepayers are seasonal residents, the Municipality faces some unique challenges and advantages related to asset management and provision of services in the next ten years and beyond concerning:

1. Challenges related to a largely rural road network, over an area with a low population density, which will require significant upgrades in the near future.
2. Challenges related to an aging stock of bridges and large culverts, many of which may require significant upgrades in the near term (i.e. 2014).
3. Advantages related to the Township's operation of two (2) municipal landfills, with the Madawaska Landfill Site anticipated to reach capacity in the next four and a half (4.5) years, and the Airy Waste Disposal Site anticipated to reach capacity in the next twenty-three (23) years.
4. Advantages related to a stock of municipal buildings that are in generally good condition, with only minor upgrades/replacement in the next ten (10) years.
5. Challenges related to a mixed stock of land improvements, generally focused on Recreational Services. Some land improvements require significant upgrades/replacement in the near future, while others require upgrade/replacement over the next ten (10) years.
6. Challenges related to an aging fleet of vehicles and equipment, with some costly replacements anticipated in the near future.

The following five assets should be considered as the top priority assets for upgrade/replacement as part of this AMP:

| Asset Group | Asset Name                   | Replacement or Upgrade Year | Condition Rating   | Level of Service | Risk Factor | Upgrade/ Replacement Cost |
|-------------|------------------------------|-----------------------------|--------------------|------------------|-------------|---------------------------|
| Equipment   | Pumps/Hoses – Fire Station   | 2009                        | poor               | 5                | 5           | \$8,500                   |
| Equipment   | Fire Communications Repeater | 2010                        | poor               | 5                | 5           | \$10,500                  |
| Bridges     | Moore's Creek Bridge         | 2014                        | (Required Repairs) | 4                | 5           | \$72,000                  |
| Bridges     | Poverty Creek Bridge         | 2014                        | (Required Repairs) | 3                | 5           | \$65,000                  |
| Bridges     | Airy Pedestrian Bridge       | 2014                        | (Required Repairs) | 2                | 5           | \$20,000                  |

The Township currently has one (1) special project (work in progress) which should be considered for priority asset status, with the anticipated development and construction costs (replacement costs) in 2014

per the following:

1. Ayleen Lake Road and associated partial road sections = \$1,309,275.

## TABLE OF CONTENTS

|            |  |           |
|------------|--|-----------|
| <b>1.0</b> | <b>INTRODUCTION .....</b>  | <b>1</b>  |
| 1.1        | MUNICIPAL INFORMATION .....                                      | 1         |
| 1.2        | BACKGROUND .....   | 1         |
| 1.3        | PURPOSE .....  | 2         |
| 1.4        | SCOPE .....  | 3         |
| <b>2.0</b> | <b>STATE OF LOCAL INFRASTRUCTURE.....</b>                        | <b>5</b>  |
| 2.1        | DEFINITIONS .....  | 5         |
| 2.2        | PROPOSED DATA VERIFICATION AND CONDITION ASSESSMENT POLICY ..... | 7         |
| 2.3        | ROADS .....  | 7         |
| 2.4        | BRIDGES AND LARGE CULVERTS.....                                  | 9         |
| 2.5        | SOLID WASTE .....  | 10        |
| 2.6        | BUILDINGS.....   | 11        |
| 2.7        | LAND IMPROVEMENTS .....  | 12        |
| 2.8        | VEHICLES AND EQUIPMENT .....                                     | 12        |
| <b>3.0</b> | <b>CURRENT AND DESIRED LEVEL OF SERVICE .....</b>                | <b>14</b> |
| 3.1        | SUMMARY AND DEFINITIONS .....                                    | 14        |
| 3.2        | ROADS .....  | 14        |
| 3.3        | BRIDGES AND LARGE CULVERTS.....                                  | 15        |
| 3.4        | SOLID WASTE .....  | 15        |
| 3.5        | BUILDINGS.....   | 16        |
| 3.6        | LAND IMPROVEMENTS .....  | 16        |
| 3.7        | VEHICLES AND EQUIPMENT .....                                     | 16        |
| <b>4.0</b> | <b>RISK ASSESSMENT AND MANAGEMENT STRATEGY .....</b>             | <b>18</b> |
| 4.1        | SUMMARY AND DEFINITIONS .....                                    | 18        |
| 4.2        | PROCUREMENT METHODS.....   | 18        |
| 4.3        | OPTIONS ANALYSIS REVIEW .....                                    | 19        |
| <b>5.0</b> | <b>FINANCIAL STRATEGY.....</b>                                   | <b>22</b> |
| 5.1        | SUMMARY AND DEFINITIONS .....                                    | 22        |
| 5.2        | INTEGRATION WITH MUNICIPAL BUDGETS.....                          | 23        |

|            |  |           |
|------------|--|-----------|
| 5.3        | MAINTENANCE VERSUS UPGRADE/REPLACEMENT OF ASSETS .....         | 24        |
| 5.4        | DETERMINATION OF PRIORITY ASSETS FOR REPLACEMENT/UPGRADE ..... | 24        |
| <b>6.0</b> | <b>CONCLUSIONS AND RECOMMENDATIONS .....</b>                   | <b>25</b> |
| 6.1        | CONCLUSIONS.....   | 25        |
| 6.2        | RECOMMENDATIONS.....   | 26        |
| <b>7.0</b> | <b>CLOSING.....</b>  | <b>27</b> |
| <b>8.0</b> | <b>SELECTED REFERENCES .....</b>                               | <b>28</b> |

**LIST OF FIGURES**

Figure 1      Regional Location Plan

**LIST OF APPENDICES**

Appendix A    Asset Data Summary Tables  
Appendix B    Statement of Service Conditions and Limitations

## 1.0 INTRODUCTION

### 1.1 MUNICIPAL INFORMATION

The Township of South Algonquin (Township) is a small, rural municipality situated in northern Ontario, in the District of Nipissing (Figure 1). The Township is an amalgamated municipality comprised of the former Townships of Airy, Dickens, Lyell, Murchison, and Sabine. The largest settlement areas in the Township are the communities of Whitney and Madawaska. The Township is located approximately two hundred and twenty-five (225) kilometres (km) northeast of Toronto, Ontario, and one hundred and ninety (190) km west of Ottawa, Ontario (Figure 1; Google Earth, 2013). The total land area of the Township is reportedly eight hundred and seventy-two (872) square kilometres (km<sup>2</sup>; Statistics Canada, 2013).

According to the Census Profile information from Statistics Canada, the population of the Township as of 2011 included 1,211 residents, which represented a 3.4 percent decrease from the previous Census in 2006 when the population was reportedly 1,253 (Statistics Canada, 2013). The population density of the Township is a reported 1.40 people per km<sup>2</sup>. The total number of private dwellings within the Township in 2011 was 977 units, with 555 units occupied by usual (permanent) residents, and 422 seasonal dwellings (i.e. cottages, cabins, etc.). Owing to the rural nature of the Municipality, and the fact that approximately forty-three (43) percent of the total households within the Municipality are seasonal, the Township faces many unique challenges related to asset management and provision of services.

A summary of the municipal study area characteristics are included in Table 1 of Appendix A (Statistics Canada, 2013).

### 1.2 BACKGROUND

In June 2011, the Province of Ontario released a long-term infrastructure plan for Ontario entitled *Building Together*, which set out a strategic framework to aid in the guidance of fiscally-responsible future investments in the province. The Province identified that one of the key elements to the plan was ensuring good stewardship through proper asset management (Ministry of Infrastructure, 2012).

Based on the obligation of the Federal, Provincial, and Municipal governments to appropriately manage municipal infrastructure, the Province of Ontario has reportedly invested approximately thirteen (13) billion dollars into local infrastructure since 2003. Additionally, as of 2003, the Province of Ontario has instituted the *Infrastructure Ontario Loan Program* that has provided municipalities with secure financing opportunities at favorable interest rates to address local infrastructure needs (Ministry of Infrastructure, 2012).

The Province of Ontario identified that the first step for any municipality seeking Provincial capital funding for

infrastructure improvements was to prepare a detailed AMP, and funding from the Province of Ontario was made available to assist municipalities in the development of their AMPs. The Province of Ontario's requirements for an AMP were published in the document entitled *Building Together – Guide for Municipal Asset Management Plans* (Guide; Ministry of Infrastructure, 2012).

Greenview Environmental Management Limited (Greenview) was retained by the Township to complete their AMP in accordance with the requirements of the Guide (Ministry of Infrastructure, 2012).

This AMP was developed by the Township and Greenview to be a high-level review of the Township's assets, using all available financial and technical documentation and resources. Significant emphasis was focused on working meetings with appropriate Township personnel, in an effort to emphasize practical, tangible observations and expectations for the Township's infrastructure assets.

### **1.3 PURPOSE**

This AMP is intended to be a resource tool for the Township in decision-making processes with respect to the quantification, management, maintenance, upgrade, and replacement of municipal infrastructure and assets, to assess how assets are managed in a way that continues to provide the level of service expected by the Township and its ratepayers in future, to balance risk and the Township's management strategy, and provide a financial assessment of municipal assets with a focus on the five (5) and ten (10) year planning horizon, and with consideration of a thirty (30) year and total life expectancy planning period. The AMP is a tool to be reviewed concurrently with municipal budgets, financial reports, financial information returns, audited tangible capital asset reports, and any other reports or documents relevant to municipal asset management and infrastructure project planning.

Per the Guide, the AMP should be re-evaluated at a minimum of every three (3) years; however, it is recommended that the AMP be reviewed annually as part of the Township's municipal budgeting process, in order to incorporate priority items and actions and update information relevant to the AMP (i.e. current Condition Ratings, etc.).

The goal of the AMP is to provide a tool for the Township to assist in the review, evaluation, and assessment of municipal assets.

The objectives of the AMP, in accordance with concepts set forth in the Guide (Ministry of Infrastructure, 2012), may include but are not limited to:

1. Where financially feasible, continue to develop and improve municipal physical, social, and recreational assets and services.

2. To maintain and enhance the quality of the natural, built, and human environments in the Municipality.
3. To cooperate with local municipalities (i.e. neighbours) for the diligent management of resources and assets (if possible), for the well-being of the Township and to provide for the needs of the community.
4. Participate in and/or encourage projects and programs which strengthen and diversify the Township's economic base.
5. Identify areas of the Township that should be prioritized for growth or expansion of services.
6. Identify specific projects and financial incentives that may be available to encourage the development and improvement of municipal assets.
7. Determine areas of focus for asset management over the short and long-term planning horizon.
8. Adopting preservation/preventative maintenance strategies for municipal assets that involve repairing minor issues prior to them becoming major issues.
9. Adopting replacement strategies for municipal assets that involve saving and/or borrowing of funds.

The objectives of the AMP were developed with due recognition of other municipal planning requirements (i.e. Official Plan, etc.).

#### **1.4 SCOPE**

The scope of this AMP is consistent with the requirements of the Guide (Ministry of Infrastructure, 2012), and the selected asset groups as prescribed by the Township for this project. The scope of the AMP includes the following applicable asset types:

- Roads.
- Bridges and Large Culverts.
- Solid Waste.
- Buildings.
- Land Improvements.
- Vehicles and Equipment.

Further to the requirements of the Guide (Ministry of Infrastructure, 2012), the Township is not responsible for management of social housing. Additionally, the Township does not provide municipal drinking water or wastewater services to its ratepayers.

Consistent with the requirements of the Guide (Ministry of Infrastructure, 2012), this AMP includes the following sections:

- Executive Summary.
- Introduction (Section 1.0).
- State of Local Infrastructure (Section 2.0).
- Current and Desired Level of Service (Section 3.0).
- Risk Assessment and Management Strategy (Section 4.0).
- Financial Strategy (Section 5.0).
- Conclusions and Recommendations (Section 6.0).

## 2.0 STATE OF LOCAL INFRASTRUCTURE

The following sections are intended to provide a summary of the detailed review of municipal assets including:

1. Definitions (Section 2.1).
2. Data Verification and Condition Assessment Policy (Section 2.2)
3. Roads (Section 2.3).
4. Bridges and Large Culverts (Section 2.4).
5. Solid Waste (Section 2.5).
6. Buildings (Section 2.6).
7. Land Improvements (Section 2.7).
8. Vehicles and Equipment (Section 2.8).

A summary table of the municipal assets is included in Table 2 – General Summary of Municipal Assets (Appendix A), which is a summary of the Financial Assessment and Projections from Tables 6a to 6f (Appendix A). Detailed tables which identify specific elements of the Township's assets including, but not limited to, asset types, location, financial accounting and replacement cost valuation, year in service and asset life expectancy, condition rating, and level of service are detailed in Tables 3a to 3f – Detailed Summary of Municipal Assets (Appendix A).

### 2.1 DEFINITIONS

The following is a select list of definitions which explain elements of Tables 3a to 3f (Appendix A; Detailed Summary of Municipal Assets), to assist in the review of the related tables. Tables 3a to 3f were created in accordance with the requirements of the Guide (Ministry of Infrastructure, 2012).

| Item                                  | Definition  | Example  |
|---------------------------------------|---|--|
| Asset ID                              | <ul style="list-style-type: none"> <li>Individual identification tag, generally using a combination of letters and/or numbers.</li> <li>From the Township's <i>2012 Tangible Capital Assets Report</i>.</li> </ul>  | <ul style="list-style-type: none"> <li>Airy Road = RD10</li> <li>MFD – Fire Truck = T5-505</li> </ul>  |
| Detailed Asset Description            | <ul style="list-style-type: none"> <li>Used to describe assets that share similar characteristics with each other.</li> <li><i>Detailed Asset Descriptions</i> vary dependant on asset groups.</li> </ul>   | <ul style="list-style-type: none"> <li>Bridge</li> <li>Equipment</li> <li>Vehicles</li> </ul>  |
| Year in Service                       | <ul style="list-style-type: none"> <li>Age of the asset, year asset was purchased, the year the asset was put into service, and/or the year the asset underwent significant upgrades.</li> <li><i>Year in Service</i> is always a “year”.</li> </ul>  | <ul style="list-style-type: none"> <li>2006</li> </ul>   |
| Asset Life Expectancy                 | <ul style="list-style-type: none"> <li>The number of years the asset is anticipated to be useful/functional.</li> <li>Based on either the Township's <i>Tangible Capital Asset Report (2012)</i>, information supplied from Municipal personnel, or from engineering inspections of the asset.</li> </ul> | <ul style="list-style-type: none"> <li>Generator – Medical Centre = 20 years</li> </ul>  |
| Projected Replacement or Upgrade Year | <ul style="list-style-type: none"> <li>The year an asset should be replaced and or upgraded.</li> <li>Calculated based on the sum of the <i>Year in Service</i> and <i>Asset Life Expectancy</i>.</li> </ul>  | <ul style="list-style-type: none"> <li>1989 Equipment Van (Vehicles and Equipment)</li> <li><i>Year in Service</i> = 1994</li> <li><i>Asset Life Expectancy</i> = 25 years</li> <li><i>Projected Replacement or Upgrade Year</i> = (1994 + 25) = 2019</li> </ul> |
| Original Cost                         | <ul style="list-style-type: none"> <li>Original cost of asset.</li> </ul>   | <ul style="list-style-type: none"> <li>See <i>2012 Tangible Capital Assets Report</i></li> </ul>   |
| Accumulated Amortization              | <ul style="list-style-type: none"> <li>Sum of the accumulated amortization on the asset.</li> </ul>   | <ul style="list-style-type: none"> <li>See <i>2012 Tangible Capital Assets Report</i></li> </ul>   |
| Ending Value                          | <ul style="list-style-type: none"> <li>Value of the asset after addition of betterments or additions, and subtraction of accumulated depreciation.</li> </ul>   | <ul style="list-style-type: none"> <li>See <i>2012 Tangible Capital Assets Report</i></li> </ul>   |

|                            |   |  |
|----------------------------|---|--|
| Replacement / Upgrade Cost | <ul style="list-style-type: none"> <li>• Anticipated total cost of upgrade and/or replacement of an asset.</li> </ul>   | <ul style="list-style-type: none"> <li>• New road, truck, building upgrades etc.</li> </ul>                    |
| Condition Rating           | <ul style="list-style-type: none"> <li>• A scale which identifies the current condition of a given asset.</li> <li>• Scale using Good, Fair, or Poor rating, based on observations from Township Staff and/or other inspections.</li> </ul>   | <ul style="list-style-type: none"> <li>• 1989 Equipment Van = Fair</li> <li>• Airy Road = Poor</li> </ul>      |
| Level of Service           | <ul style="list-style-type: none"> <li>• Defined as the <i>Level of Service</i> required for the asset to be maintained to meet the service requirements of the Township and its ratepayers.</li> <li>• Generally, the scale is from one (1) to five (5), where one (1) is very low priority and five (5) is very high priority.</li> <li>• For Roads, the level of service is defined as the municipal Road Classification.</li> </ul> | <ul style="list-style-type: none"> <li>• Hayward Road = 6</li> <li>• Library and Community Hall = 5</li> </ul> |

## 2.2 PROPOSED DATA VERIFICATION AND CONDITION ASSESSMENT POLICY

The AMP should be re-evaluated at a minimum of every three (3) years; however, it is recommended that the AMP be reviewed annually as part of the Township’s budgeting process, in order to incorporate priority items, actions and update information relevant to the AMP (i.e. current Condition Ratings, etc.).

Values (Original Cost, Accumulated Depreciation, Ending Value) for each asset could be updated annually, based on the results of each year’s audited Tangible Capital Assets Report (or equivalent).

Asset Life Expectancies could be updated following completion of significant maintenance activities, in order to note the anticipated extended life of the asset and prolong the Projected Replacement or Upgrade Year.

Replacement Costs (and/or Upgrade Costs) could be updated as new/more current information becomes available, as applicable.

Condition Ratings could be updated by the Township on an as needed basis, based on municipal review/observations and/or by third-party investigations (i.e. engineer reviews). The ideal case would be to update Condition Ratings annually, and at a minimum every three (3) years.

## 2.3 ROADS

The following information in this section is based on Table 3a – Detailed Summary of Municipal Assets – Roads (Appendix A), which was prepared using information from the Township’s 2012 Tangible Capital

Assets Report (Township, 2013) and information provided by the Township.

Based on the Township's 2005 Road Assessment and Management Plan (G.D. Jewell Engineering Inc., 2005), and associated documentation, the Township maintains a road network with a total road length of approximately 127.08 km. The respective road surface types and total lengths are:

| Road Surface Type  | Total Kilometres (km) | Percentage (%) of Total Road Network |
|--|-----------------------|--------------------------------------|
| Gravel   | 83.85                 | 65.98 %                              |
| Earth  | 3.30                  | 2.60 %                               |
| Double Surface Treatment (DST)                               | 10.90                 | 8.58 %                               |
| High Class Bituminous (HCB)                                  | 5.10                  | 4.01 %                               |
| High Class Bituminous (HCB) - Double Surface Treatment (DST) | 1.25                  | 0.98 %                               |
| Low Class Bituminous (LCB)                                   | 3.00                  | 2.36 %                               |
| Low Class Bituminous (LCB) - Single Surface Treatment (SST)  | 19.68                 | 15.49 %                              |
| <b>TOTAL</b>   | <b>127.08</b>         | <b>100 %</b>                         |

The anticipated total required replacement cost for each road surface type, based on industry standards and information supplied by the Township are:

| Road Surface Type  | Anticipated Total Maintenance and Replacement Cost (30-Year) |
|--|--|
| Gravel   | \$3,354,000  |
| Earth  | \$132,000  |
| Double Surface Treatment (DST)                               | \$1,546,875  |
| High Class Bituminous (HCB)                                  | \$903,450  |
| High Class Bituminous (HCB) - Double Surface Treatment (DST) | \$123,750  |
| Low Class Bituminous (LCB)                                   | \$357,000  |
| Low Class Bituminous (LCB) - Single Surface Treatment (SST)  | \$2,341,920  |
| <b>TOTAL</b>   | <b>\$8,758,995</b>   |

Assumptions and notes related to roads are included on Table 3a – Roads (Appendix A).

The financial strategy for the upgrade and/or replacement of municipal roads are discussed in Section 5.0 of this report and in Table 6a (Appendix A).

## 2.4 BRIDGES AND LARGE CULVERTS

The following information in this section is based on Table 3b – Detailed Summary of Municipal Assets – Bridges and Large Culverts (Appendix A), which was prepared using information from the 2012 Tangible Capital Assets Report (Township, 2013), the 2013 OSIM Inspections report completed by G.D. Jewell Engineering Inc. (2013), and information provided by the Township.

The Township maintains four (4) road bridges, one (1) pedestrian bridge, and one (1) large culvert (greater than 6 m diameter) within the Municipality. The bridges and large culverts are maintained and inspected in accordance with the requirements of the *Public Transportation and Highway Improvement Act, O.Reg. 104/97 Standards for Bridges (O.Reg. 472/10, as amended)*, which states:

*The structural integrity, safety and condition of every bridge shall be determined through the performance of at least one inspection in every second calendar year under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual.*

Based on the 2013 OSIM Inspections completed by G.D. Jewell Engineering Inc. in 2013 on the Township's bridges, with the exception of the Victoria Lake Road Culvert, the following total repair or replacement costs were identified:

| Asset Name                 | Proposed Repairs / Replacement Costs |                |                 |                |                  | TOTAL            |
|----------------------------|--------------------------------------|----------------|-----------------|----------------|------------------|------------------|
|                            | Urgent                               | Within 1 Year  | 1 to 5 Years    | 6 to 10 Years  | Other            |                  |
| Algonquin Street Bridge    | \$5,000                              | -              | \$5,000         | -              | \$1,500          | <b>\$11,500</b>  |
| Madawaska River Bridge     | -                                    | \$7,000        | \$45,000        | -              | \$71,000         | <b>\$123,000</b> |
| Moore's Creek Bridge       | \$50,000                             | -              | -               | \$7,000        | \$15,000         | <b>\$72,000</b>  |
| Poverty Creek Bridge       | \$38,000                             | -              | \$10,000        | -              | \$17,000         | <b>\$65,000</b>  |
| Airy Pedestrian Bridge     | \$10,000                             | -              | \$5,000         | -              | \$5,000          | <b>\$20,000</b>  |
| Victoria Lake Road Culvert | -                                    | -              | \$20,000        | -              | -                | <b>\$20,000</b>  |
| <b>TOTAL</b>               | <b>\$103,000</b>                     | <b>\$7,000</b> | <b>\$85,000</b> | <b>\$7,000</b> | <b>\$109,500</b> | <b>\$311,500</b> |

As significant costs for bridge upgrades and repairs were recommended by G.D. Jewell Engineering Inc. in the 2013 OSIM Inspections report with a priority of “Urgent” and “Within 1 year”, and with associated supporting costs (i.e. traffic control, engineering, etc.) for the work, all identified repairs for the Moore’s Creek Bridge, Poverty Creek Bridge, and Airy Pedestrian Bridge have been recommended to be completed by the Township in 2014 (see Table 6b for the financial projections). These recommendations were developed in order to minimize construction and administrative supporting costs which are anticipated to be incurred as part of the work, per G.D. Jewell Engineering Inc.’s 2013 OSIM Inspections report (G.D. Jewell Engineering Inc., 2013).

The required repairs to the Algonquin Street Bridge, as identified by G.D. Jewell Engineering Inc. in the 2013 OSIM Inspections report (G.D. Jewell Engineering Inc., 2013), were completed by the Township in 2013.

The cost for replacement of the Victoria Lake Road Culvert was determined in meetings with the Township of South Algonquin. The Victoria Lake Road Culvert was not inspected by G.D. Jewell Engineering Inc. in the 2013 OSIM Inspections report (G.D. Jewell Engineering Inc., 2013).

Assumptions and notes related to bridges and large culverts are included on Table 3b – Bridges and Large Culvert (Appendix A).

The financial strategy for the upgrade and/or replacement of the municipal bridges and large culverts are discussed in Section 5.0 of this report and in Table 6b (Appendix A).

## **2.5 SOLID WASTE**

The following information in this section is based on Table 3c – Detailed Summary of Municipal Assets – Solid Waste (Appendix A), which was prepared using information from the Annual Reports for the Township’s Airy and Madawaska (Murchison and Lyell) Waste Disposal Sites prepared by JP2G Consultants Inc. (JP2G Consultants Inc., 2013) and information provided by the Township.

Per the 2012 Annual Reports for the Township’s waste sites (JP2G Consultants Inc., 2013), the Township maintains and operates two (2) active waste disposal sites within the Township. Based on information from JP2G Consultants Inc., the Airy Waste Disposal Site is interpreted to have a remaining asset life expectancy of twenty-three (23) years, while the Madawaska (Murchison and Lyell) Landfill Site is interpreted to have a remaining asset life expectancy of four and a half (4.5) years. The replacement costs for both the Airy and Madawaska sites assume the cost of the permitting and approvals process for landfill expansion. The estimated closure costs for the Township’s waste sites have been included as part of the AMP (identified as

replacement cost), per calculations completed by JP2G Consultants Inc., and as indicated in the following table:

| <b>Asset Name</b>                             | <b>Replacement Cost</b> |
|---|-------------------------|
| Airy Waste Disposal Site                      | \$150,000               |
| Madawaska (Murchison and Lyell) Landfill Site | \$150,000               |
| Closure Cost (Airy Waste Disposal Site)       | \$120,900               |
| Closure Cost (Madawaska Landfill Site)        | \$45,198                |
| <b>TOTAL</b>                                  | <b>\$466,098</b>        |

Assumptions and notes related to solid waste are included on Table 3c – Solid Waste (Appendix A).

The financial strategy for the upgrade and/or replacement of the municipal solid waste assets are discussed in Section 5.0 of this report and in Table 6f (Appendix A).

## 2.6 BUILDINGS

The following information in this section is based on Table 3d – Detailed Summary of Municipal Assets – Buildings (Appendix A), which was prepared using information from the 2012 Tangible Capital Assets Report (Township, 2013), information resultant of a buildings review from a structural, mechanical, and electrical perspective completed by Greenview (Greenview, 2013), and information provided by the Township.

Based on the 2012 Tangible Capital Assets Report (Township, 2013), the Township maintains twenty-seven (27) municipal buildings reviewed as part of this AMP (Table 3d; Appendix A). The number of buildings maintained by the Township, sorted by the Operating Department, and anticipated replacement / upgrade costs are:

| <b>Operating Department</b> | <b>Number of Buildings</b> | <b>Replacement / Upgrade Cost</b> |
|-----------------------------|----------------------------|-----------------------------------|
| General Government          | 4                          | \$105,000                         |
| Recreational Services       | 19                         | \$240,000                         |
| Protection Services         | 2                          | \$45,000                          |
| Environmental Services      | 2                          | \$14,000                          |
| <b>TOTAL</b>                | <b>27</b>                  | <b>\$404,000</b>                  |

Assumptions and notes related to municipal buildings are included on Table 3d – Buildings (Appendix A).

The financial strategy for the upgrade and/or replacement of the municipal buildings are discussed in Section 5.0 of this report and Table 6d (Appendix A).

## 2.7 LAND IMPROVEMENTS

Based on the 2012 Tangible Capital Assets Report (Township, 2013), the Township maintains twelve (12) land improvements that will require upgrade or replacement and that have been reviewed as part of this AMP (Table 3e; Appendix A). The number of land improvements maintained by the Township and their respective replacement/upgrade cost, sorted by the Operating Department, are:

| Operating Department  | Replacement / Upgrade Cost |
|-----------------------|----------------------------|
| General Government    | \$35,000                   |
| Recreational Services | \$288,584                  |
| <b>TOTAL</b>          | <b>\$323,584</b>           |

Assumptions and notes related to land improvements are included on Table 3e – Land Improvements (Appendix A).

The financial strategy for the replacement of the land improvement assets are discussed in Section 5.0 of this report and in Table 6e (Appendix A).

## 2.8 VEHICLES AND EQUIPMENT

Based on the 2012 Tangible Capital Assets Report (Township, 2013), the Township maintains twenty-one (21) municipal pieces of equipment and seventeen (17) municipal vehicles that will require upgrade or replacement and that have been reviewed as part of this AMP (Table 3e; Appendix A). The number of municipal pieces of equipment and vehicles maintained by the Township and their respective replacement/upgrade cost, sorted by the Operating Department, are:

| Equipment or Vehicle | Operating Department    | Number of Units | Replacement/Upgrade Cost |
|----------------------|-------------------------|-----------------|--------------------------|
| Equipment            | General Government      | 5               | \$114,000                |
| Equipment            | Environmental Services  | 2               | \$195,000                |
| Equipment            | Protection Services     | 6               | \$53,700                 |
| Equipment            | Recreational Services   | 2               | \$46,000                 |
| Equipment            | Transportation Services | 6               | \$546,500                |
| Vehicle              | Environmental Services  | 2               | \$385,000                |
| Vehicle              | Protection Services     | 8               | \$944,000                |
| Vehicle              | Transportation Services | 7               | \$563,500                |
| <b>TOTAL</b>         |                         | <b>38</b>       | <b>\$2,847,700</b>       |

Assumptions and notes related to equipment and vehicles are included on Table 3e – Vehicles and Equipment (Appendix A).

The financial strategy for the replacement of the municipal vehicles and equipment assets are discussed in Section 5.0 of this report and in Table 6e (Appendix A).

### **3.0 CURRENT AND DESIRED LEVEL OF SERVICE**

The following sections discuss the current and desired level of service for the Township's assets reviewed as part of the AMP.

#### **3.1 SUMMARY AND DEFINITIONS**

For the purposes of this AMP, level of service is defined as the level of service required for an asset to be maintained to meet the service requirements of the Township and its ratepayers. Generally, the scale is from one (1) to five (5), where one (1) is very low priority and five (5) is very high priority. The exception to this scale is for municipal roads, where the level of service is defined as the municipal road classification (see Tables 3a to 3f; Appendix A).

Detailed tables that describe the asset type, service issue, current level of service (assess time and repair time), desired level of service (assess time and repair time), and performance measures and review are included for all assets including roads, bridges and large culverts, solid waste, buildings, land improvements, and vehicles and equipment in Tables 4a to 4f of this AMP (Appendix A).

The current and desired level of service for service issues for each asset type are understood to be relatively consistent, with some exceptions. At this time, it is understood that generally the Township does not have the resources (i.e. budget) to increase the level of service for its assets, and it is the Township's objective to maintain their existing asset base in the best and most effective way possible, given their existing resources. For details on the level of service and performance measures, see Tables 4a to 4f of this AMP (Appendix A).

As part of any re-evaluation of the AMP (as described in Section 2.2 of the AMP), current and desired levels of service, service issues, and performance measures should be concurrently re-evaluated. Any amendments or newly identified service issues and performance measures should be included in Tables 4a to 4f (Appendix A).

The following are descriptions of the level of service and performance measures review, as included in Tables 4a to 4f (Appendix A).

#### **3.2 ROADS**

A review of the level of service and performance measures for roads are included in Table 4a (Appendix A).

Gravel roads are currently understood to have the following service issues: grading, resurfacing, calcium

treatment, brushing, ditching, winter plowing, winter sanding/salting, washout repairs, and shoulder maintenance.

Similarly, paved roads are currently understood to have the following service issues: sweeping, patching/potholes, shoulder maintenance, resurfacing/sealant, brushing, winter plowing, winter sanding/salting, ditching, and washout repairs.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4a (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

### **3.3 BRIDGES AND LARGE CULVERTS**

A review of the level of service and performance measures for bridges and large culverts are included in Table 4b (Appendix A).

Bridges and large culverts are currently understood to have the following service issues: sweeping, blockages, damage (i.e. guide rails), supports (bridges only), winter plowing, winter sanding/salting, surface, washouts (culverts only) and failure.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4b (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

### **3.4 SOLID WASTE**

A review of the level of service and performance measures for solid waste are included in Table 4c (Appendix A).

The Township's waste disposal sites and equipment are currently understood to have the following potential service issues: noise, spills, complaints, fire, environmental, dust, breaks/malfunctions, maintenance, and litter.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4c (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

### **3.5 BUILDINGS**

A review of the level of service and performance measures for buildings are included in Table 4d (Appendix A).

Service issues for municipal buildings (General Government, Protection Services, Recreational Services, and Environmental Services) are divided into minor and major issues. Since buildings related to Protection Services are critical from a health and safety perspective to the Township and its ratepayers (i.e. fire, first response, etc.), priority should be given to Protection Services buildings as service issues are discovered/identified. Land parcels, vacant or otherwise, were not reviewed from a level of service perspective. Land improvements are discussed in Section 3.6 and Table 4e of this AMP.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4d (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

### **3.6 LAND IMPROVEMENTS**

A review of the level of service and performance measures for land improvements are included in Table 4e (Appendix A).

Service issues for land improvements related to General Government operating department are understood to include resurfacing and sweeping, as the one (1) General Government land improvement is a parking lot. Similarly, land improvements related to Recreational Services are understood to include asset damage, vandalism, and litter.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4e (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

### **3.7 VEHICLES AND EQUIPMENT**

A review of the level of service and performance measures for vehicles and equipment are included in Table 4f (Appendix A).

Service issues for vehicles and equipment are divided into minor and major issues, based on the operating department. Since Protection Services are critical from a health and safety perspective to the Township and its ratepayers (i.e. fire, first response, etc.), priority should be given to vehicles and equipment related to Protection Services as service issues are discovered/identified.

Details with regards to current level of service, desired level of service, and performance measures and review are included in Table 4f (Appendix A), and should be amended/updated during any re-evaluation of the AMP (if necessary).

## **4.0 RISK ASSESSMENT AND MANAGEMENT STRATEGY**

The following sections discuss the risk assessment and management strategy for the Township's assets reviewed as part of the AMP.

### **4.1 SUMMARY AND DEFINITIONS**

In accordance with the Guide (Ministry of Infrastructure, 2012), the risk assessment and management strategy component of the AMP is the set of proposed and/or planned actions that will enable the Township's assets to provide the current/desired level of service in a sustainable way, while managing risk, at the lowest lifecycle cost (i.e. preventative actions).

Detailed reviews of the risk assessment and management strategy are included in Tables 5a to 5f (Appendix A), and include evaluations of the risk factor for each asset type, risk elements, and planned actions. Planned actions include non-infrastructure solutions, maintenance activities, renewal/rehabilitation activities, replacement activities, disposal activities, and expansion activities. The risk assessment and management strategies for each asset group were developed based on the Township's current understanding of their assets and their requirements. As part of any re-evaluation of the AMP (as described in Section 2.2 of the AMP), the risk assessment and management strategy for each asset group should be concurrently re-evaluated. Any amendments or newly identified risk elements and planned actions should be included in Tables 5a to 5f (Appendix A).

The risk assessment and management strategy are detailed for all assets, including:

- Roads (Table 5a).
- Bridges and Large Culverts (Table 5b).
- Solid Waste (Table 5c).
- Buildings (Table 5d).
- Land Improvements (Table 5e).
- Vehicles and Equipment (Table 5f).

### **4.2 PROCUREMENT METHODS**

Procurement of new or replacement assets should be completed in accordance with the Township's

procurement bylaw entitled *Being a Purchasing Policies and Procedure Bylaw #2007-270*.

Due to the rural nature of the Township and the distance of the Township from large city-centres, challenges with regards to procurement of services or products are anticipated, as there are generally fewer available service providers in the vicinity of the Township than in more densely populated areas. Depending on the circumstances, the rural nature of the Township can have positive and negative impacts on the cost of procurement of products and services. In cases where local service providers are available, the cost for services are generally expected to be less than city prices; however, where no local service providers are available, then the cost for services are generally expected to be elevated as distance-related factors emerge (i.e. elevated mobilization costs, etc).

Multi-municipal cooperation in new or replacement projects for assets and services could be considered as part of the Township's procurement methods. Multi-municipal cooperation as part of procurement methods can have a positive effect from an economies of scale perspective, with the potential of financial benefits to all parties involved. Multi-municipal cooperation for asset management are anticipated to result in benefits with respect to municipal road maintenance, upgrades, and replacement, solid waste, and replacement of municipal vehicles and equipment.

If any amendments to the Township's procurement bylaw (*Being a Purchasing Policies and Procedure Bylaw #2007-270*) are required to enter into multi-municipal agreements or partnerships, they should be considered by the Township on a per project basis.

As part of the budgeting of future projects, the Township should consider the design-build-finance-maintain model for budgeting purposes (i.e. AFP model), in order to apply due consideration to the total lifecycle costs of asset-related projects.

#### **4.3 OPTIONS ANALYSIS REVIEW**

Options analysis should be considered when the Municipality is reviewing maintenance, upgrade, or replacement of assets. This can help the Municipality to provide the needed level of service for its assets to its ratepayers.

As part of the AMP, and for the ease of the Municipality in using the AMP as an asset planning tool, lifecycle costs for the upgrade/replacement of current assets were accounted for, including the cost of constructing, maintaining, renewing, and operating an asset (as applicable). Financial assessment and projections for each asset group are included Tables 6a to 6f of the AMP (Appendix A), and discussed in Section 5.0 of this summary report. Financial projections were developed in straight-line amortizations, and the interest rate for any proposed contributions to reserves were assumed to equal the inflation rate (see Tables 6a to 6f;

Appendix A). If necessary for any future asset replacement activities, more detailed reviews of replacement costs could be developed, and the AMP should be updated accordingly with any new or updated information.

Direct benefits and costs for an asset upgrade or replacement project should be considered on a per asset basis, with specific consideration of the following (as applicable):

- Efficiencies and network effects.
  - Ontario Regulation [O.Reg.] 397/11 - Energy Conservation and Demand Management Plans.
  - Labour and vehicle operating cost savings.
  - Multi-municipal cooperation.
  - Performance improvements.
- Investment scheduling and waste minimization.
  - Delay projects that could be impacted by any expansion activities (i.e. roads).
  - Coordinate multiple asset upgrades/replacements (i.e. roads and bridges/culverts).
- Health and Safety.
  - Accident reduction.
  - Property damage reduction.
  - Injury reduction.
- Environmental Impacts.
  - Greenhouse gas emissions.
  - Nutrient loading.
  - Groundwater and surface water impacts.
  - Drainage impacts/improvements.
  - Climate change.

Indirect benefits and costs for an asset upgrade or replacement project should be considered on a per asset basis, with specific consideration of the following (as applicable):

- Municipal wellbeing and health.

- Amenity values.
  - Public facilities (i.e. washrooms, parks, etc.).
- Culturally/historically significant assets.
  - Historical buildings.
  - Parks and land improvements.
- Municipal image.

As the AMP is designed to be an asset planning tool for the Municipality, an assessment of the risks associated with all potential asset maintenance, upgrade, or replacement should be completed using an approach that allows for comparative analysis of the options available. Risks associated with each option could be based on quantitative data (if available). In instances when quantitative data is not available as part of the comparative analysis review, qualitative measures could be utilized with the intent of determining the probability of the occurrence of risk events.

Due to the fact that the Township is a small, rural Municipality with limited resources, additional study focused on quantitative data gathering with respect to risk could be reviewed in future as part of updates to the AMP, if deemed valuable by the Municipality.

For any review of the AMP, any opportunities to save resources by coordinating solutions to multiple problems should be explored. Specifically, and as part of any decision making process, the following opportunities should be considered:

1. Multi-municipal cooperation and contract negotiation.
2. Joint service boards.
3. Shared and/or uploading of services to the upper tier (i.e. District of Nipissing).

## 5.0 FINANCIAL STRATEGY

The following sections discuss the financial strategy for the Township's assets reviewed as part of the AMP.

### 5.1 SUMMARY AND DEFINITIONS

The financial strategy for the Township was developed with the assistance of municipal staff and Greenview, and is considered the critical component of the AMP. The financial strategy is designed to employ basic fundamentals and assumptions, such that the Township could amend and/or update the AMP in future years as information and data becomes available.

Tables 6a to 6f – Financial Assessment and Projections (Appendix A) describe all municipal assets included in the AMP by asset group including:

1. Table 6a – Roads.
2. Table 6b – Bridges and Large Culverts.
3. Table 6c – Solid Waste.
4. Table 6d – Buildings.
5. Table 6e – Land Improvements.
6. Table 6f – Vehicles and Equipment.

Based on the scope of this AMP, Tables 6a to 6f account for an all-inclusive review of the replacement (or upgrade) costs for each asset, and consideration has been given by the Township relative to non-infrastructure solutions, maintenance activities, renewal/rehabilitation activities, replacement activities, disposal activities, and expansion activities associated with the replacement costs identified (Appendix A).

A practical and detailed review was completed by the Township in the determination of replacement costs, including, but not limited to, actual expenditures on similar assets and/or research completed by the Township on actual costs of replacement within the last two (2) to three (3) years (where possible).

A summary of the financial assessment and projections of Tables 6a to 6f are included in Table 2 – General Summary of Municipal Assets (Appendix A).

Tables 6a to 6f incorporate pertinent information required from Tables 3a to 3f, as well as detailing the proposed annual contributions to reserves required to upgrade/replace each municipal asset over its remaining useful life (Appendix A). In the event that an asset has already reached its projected replacement or upgrade year (as of 2013), then the proposed annual contribution to reserves is determined to be equal to the replacement cost of the asset; however, if the asset has not reached the projected replacement or

upgrade year, then the cost of upgrade/replacement (replacement cost) is divided over the remaining useful life years.

Proposed annual contributions to reserves are determined with focus on the five (5) and ten (10) year planning horizon, and with consideration of the thirty (30) year and total life expectancy planning perspective. The proposed annual contributions to reserves (for each year) are the recommended total monies to be saved per year by the Municipality in order to replace/upgrade each asset at the end of its useful life.

For comparison purposes, the estimated borrowing cost is calculated based on the cost for the Township to borrow the required monies from Infrastructure Ontario to upgrade/replace each asset, consistent with recent lending rates. Lending rates can be updated on Tables 6a to 6f at any time, to reflect the most recent rates available when the AMP is under review by the Township (Appendix A). The term of the loan is assumed to be equal to asset life expectancy, rounded up to the nearest five (5) years, to a maximum of a thirty (30) year lending term. Additionally, the difference in cost to the Township between borrowing or saving the required funds to upgrade/replace each asset is calculated and identified as difference (borrowing – savings). This calculation is designed to illustrate the monetary benefits to the Municipality of saving money (as part of their reserves) in advance of asset upgrade/replacement, in comparison to the high costs of borrowing.

The proposed annual contributions to reserves and associated replacement costs assume the Municipality will be required to obtain all funds needed to upgrade/replace each asset without the assistance of Federal or Provincial funding, grants, or any other assistance.

Assumptions and notes associated with Tables 6a to 6f are included on each individual table (Appendix A).

## **5.2 INTEGRATION WITH MUNICIPAL BUDGETS**

The financial strategy was developed with a cost-based approach, using real-life upgrade/replacement costs for assets, as currently understood by the Township. This AMP is not directly integrated with municipal budgets and is designed to be an independent, third-party review of the actual assets owned and managed by the Municipality.

This AMP should be reviewed, updated, and utilized with consideration of future municipal budgets, existing municipal reserves, Financial Information Returns (FIR), audited Financial Reports, audited Tangible Capital Asset Reports, and any other pertinent financial or planning documents of the Municipality.

On an annual basis, or at least every three (3) years, it is recommended that any new municipal assets not represented in the AMP be included for future planning purposes.

### **5.3 MAINTENANCE VERSUS UPGRADE/REPLACEMENT OF ASSETS**

As the upgrade and/or replacement costs of each asset are understood to be generally costly to the Municipality, particularly in years where multiple assets are required to have at least some level of upgrade or replacement, maintenance activities on assets should be strongly considered as a viable alternative.

Maintenance activities can be used to prolong the asset life expectancy, improve the condition rating of the asset, and in some cases revise the year in service of the asset where maintenance activities improved the condition of the asset to a like-new state.

The benefits of an appropriate maintenance schedule for municipal assets include, but may not be limited to, the following:

- Increasing available funds to be used in other maintenance, upgrades, or replacement of assets.
- Prolonging asset life expectancies beyond accounting-based estimates/pre-determined values.
- Allowing for additional years for the Municipality to save/budget for replacement assets.

### **5.4 DETERMINATION OF PRIORITY ASSETS FOR REPLACEMENT/UPGRADE**

The determination of priority assets for replacement or upgrade should be considered based upon multiple factors, rather than on a singular element (i.e. Projected Replacement or Upgrade Year). It is recommended that the determination of a priority asset for replacement or upgrade should, at a minimum, consider the following aspects, as indicated in Tables 6a to 6f and 5a to 5f (Appendix A):

1. Year in Service (Table 6).
2. Asset Life Expectancy (Table 6).
3. Projected Replacement or Upgrade Year (Table 6).
4. Condition Rating (Table 6).
5. Level of Service (Table 6).
6. Risk Factor (Table 5).

Determination of priority assets for replacement or upgrade should also consider available municipal budget monies, available municipal reserves, or any Federal or Provincial funding or grants available at that time.

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

The following are the conclusions and recommendations determined from the results of the AMP for the Township.

### 6.1 CONCLUSIONS

The Township of South Algonquin is a small, rural Municipality located in the southern portion of the District of Nipissing, and considered part of Northern Ontario. Based on the rural nature of the Municipality, and since a significant portion of its ratepayers are seasonal residents, the Township faces some unique challenges and advantages related to asset management and provision of services in the next ten (10) years and beyond concerning:

1. Challenges related to a largely rural road network, over an area with a low population density, which will require significant upgrades in the near future.
2. Challenges related to an aging stock of bridges and large culverts, many of which may require significant upgrades in the near term (i.e. 2014).
3. Advantages related to the Township's operation of two (2) municipal landfills, with the Madawaska Landfill Site anticipated to reach capacity in the next four and a half (4.5) years, and the Airy Waste Disposal Site anticipated to reach capacity in the next twenty-three (23) years.
4. Advantages related to a stock of municipal buildings that are in generally good condition, with only minor upgrades/replacement in the next ten (10) years.
5. Challenges related to a mixed stock of land improvements, generally focused on Recreational Services. Some land improvements require significant upgrades/replacement in the near future, while others require upgrade/replacement over the next ten (10) years.
6. Challenges related to an aging fleet of vehicles and equipment, with some costly replacements anticipated in the near future.

This AMP was designed to be a high-level review of the Municipality's assets, and following the detailed review, it is interpreted that the Municipality now has a more complete understanding of its assets and their value.

Further to the details identified in Tables 3a to 3f and Tables 6a to 6f, please note the following recommendations (Appendix A).

## 6.2 RECOMMENDATIONS

Based on the detailed review and analysis of all municipal asset groups in this AMP, it is interpreted that the following five (5) assets should be considered as the top priority assets for upgrade/replacement as part of this AMP:

| Asset Group | Asset Name                   | Projected Replacement or Upgrade Year | Condition Rating   | Level of Service | Risk Factor | Upgrade/ Replacement Cost |
|-------------|------------------------------|---------------------------------------|--------------------|------------------|-------------|---------------------------|
| Equipment   | Pumps/Hoses – Fire Station   | 2009                                  | poor               | 5                | 5           | \$8,500                   |
| Equipment   | Fire Communications Repeater | 2010                                  | poor               | 5                | 5           | \$10,500                  |
| Bridges     | Moore’s Creek Bridge         | 2014                                  | (Required Repairs) | 4                | 5           | \$72,000                  |
| Bridges     | Poverty Creek Bridge         | 2014                                  | (Required Repairs) | 3                | 3           | \$65,000                  |
| Bridges     | Airy Pedestrian Bridge       | 2014                                  | (Required Repairs) | 2                | 2           | \$20,000                  |

In the event that maintenance activities could be used to increase the condition rating and asset life expectancy of the above noted priority assets, and consequently the projected replacement or upgrade year, then the Township could then look to other assets that may be targeted for replacement or upgrade in 2014.

The Township currently has one (1) special project (work in progress) which should be considered for priority asset status, with the anticipated development and construction costs (replacement costs) in 2014 per the following:

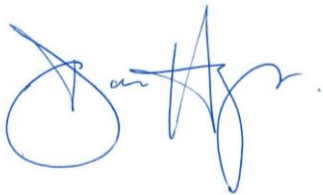
1. Aylen Lake Road and associated partial road sections = \$1,309,275.

## 7.0 CLOSING

Greenview has prepared the Asset Management Plan (AMP) in accordance with the Guide (Ministry of Infrastructure, 2012) and the selected asset groups prescribed by the Township for this project. This report is governed by the attached statement of service conditions and limitations (Appendix B).

All respectfully submitted by:

### GREENVIEW ENVIRONMENTAL MANAGEMENT LIMITED



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Dan Hagan, B.Sc.  
Project Manager



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Tyler H. Peters, P.Eng.  
Project Director

## 8.0 SELECTED REFERENCES

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## FIGURES



NORTH



Source: Google Earth, 2013



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13 Commerce Court, PO Box 100  
Bancroft, Ontario K0L 1C0  
tel: 613-332-0057  
fax: 866-905-8873  
web : www.greenview-environmental.ca

CREATED BY:  
DMH

CHECKED BY:  
THP

DATE:  
DECEMBER 2013

SCALE:  
NTS

SITE:

TOWNSHIP OF SOUTH ALGONQUIN

TITLE:

REGIONAL LOCATION PLAN

PROJECT NO.:

136.13.001

FIGURE:

1

## **APPENDIX A**

### **Asset Data Summary Tables**

**Table 1**  
**Municipal Study Area Characteristics**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

|  |        |
|--|--------|
| Population <sup>1</sup>  | 1211   |
| Population Change (2006 to 2011) <sup>1,2</sup>                    | -3.4%  |
| Total Households <sup>1</sup>                                      | 977    |
| Permenant Households <sup>1</sup>                                  | 555    |
| Seasonal Households <sup>3</sup>                                   | 422    |
| Land Area (square kilometres) <sup>1</sup>                         | 872.49 |
| Population Density (population per square kilometres) <sup>1</sup> | 1.40   |

Notes:

1. Data from Statistics Canada.
2. Percentage (%).
3. Calculated from data from Statistics Canada.

**Table 2**  
**General Summary of Municipal Assets**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset Type                 | Detailed Asset Description                     | Projected Contributions to Reserves       |                     |                     |                     |                     |                   |                   |                   |                   |                     | TOTAL (10 year)        | TOTAL (30 Year)        | Total Required Reserve (Replacement Cost)        | Estimated Borrowing Cost (Replacement Cost)        | Difference (Borrowing - Savings)        |
|----------------------------|--|---|---------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|---------------------|------------------------|------------------------|--|--|---|
|                            |  | Years 1 to 5                              |                     |                     |                     |                     | Years 6 to 10     |                   |                   |                   |                     |                        |                        |  |  |   |
|                            |  | 2014                                      | 2015                | 2016                | 2017                | 2018                | 2019              | 2020              | 2021              | 2022              | 2023                |                        |                        |  |  |   |
| Roads                      | DST  | \$ 1,502,325                              | \$ 44,550           | \$ -                | \$ -                | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ 1,546,875           | \$ 1,546,875           | \$ 1,546,875                                     | \$ 2,736,808                                       | \$ 1,189,933                            |
|                            | Earth  | \$ 44,000                                 | \$ 44,000           | \$ 44,000           | \$ -                | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ 132,000             | \$ 132,000             | \$ 132,000                                       | \$ 243,111   | \$ 111,111                              |
|                            | Gravel   | \$ 540,258                                | \$ 524,258          | \$ 504,258          | \$ 458,258          | \$ 458,258          | \$ 399,458        | \$ 399,458        | \$ 26,315         | \$ 15,815         | \$ 1,815            | \$ 3,328,148           | \$ 3,354,000           | \$ 3,354,000                                     | \$ 5,510,034                                       | \$ 2,156,034                            |
|                            | HCB  | \$ 72,566                                 | \$ 72,566           | \$ 72,566           | \$ 72,566           | \$ 64,679           | \$ 41,119         | \$ 37,202         | \$ 25,131         | \$ 25,131         | \$ 25,131           | \$ 508,656             | \$ 903,450             | \$ 903,450                                       | \$ 1,650,141                                       | \$ 746,691                              |
|                            | HCB - DST                                      | \$ 41,250                                 | \$ 41,250           | \$ 41,250           | \$ -                | \$ -                | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ 123,750             | \$ 123,750             | \$ 123,750                                       | \$ 166,021   | \$ 42,271                               |
|                            | LCB  | \$ 101,292                                | \$ 101,292          | \$ 59,642           | \$ 25,925           | \$ 17,000           | \$ 11,050         | \$ 11,050         | \$ 5,950          | \$ 5,950          | \$ 5,950            | \$ 345,100             | \$ 357,000             | \$ 357,000                                       | \$ 580,703   | \$ 223,703                              |
|                            | LCB - SST                                      | \$ 259,099                                | \$ 259,099          | \$ 259,099          | \$ 259,099          | \$ 259,099          | \$ 232,919        | \$ 232,919        | \$ 120,719        | \$ 120,719        | \$ 113,050          | \$ 2,115,820           | \$ 2,341,920           | \$ 2,341,920                                     | \$ 3,905,155                                       | \$ 1,563,235                            |
|                            | <b>SUB-TOTAL</b>                               | <b>\$ 2,560,789</b>                       | <b>\$ 1,087,014</b> | <b>\$ 980,814</b>   | <b>\$ 815,848</b>   | <b>\$ 799,035</b>   | <b>\$ 684,545</b> | <b>\$ 680,629</b> | <b>\$ 178,114</b> | <b>\$ 167,614</b> | <b>\$ 145,945</b>   | <b>\$ 8,100,349</b>    | <b>\$ 8,758,995</b>    | <b>\$ 8,758,995</b>                              | <b>\$ 14,791,972</b>                               | <b>\$ 6,032,977</b>                     |
| Bridges and Large Culverts | Bridges  | \$ 181,600                                | \$ 24,600           | \$ 24,600           | \$ 24,600           | \$ 24,600           | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ 280,000             | \$ 280,000             | \$ 280,000                                       | \$ 515,689   | \$ 235,689                              |
|                            | Culverts                                       | \$ 4,000                                  | \$ 4,000            | \$ 4,000            | \$ 4,000            | \$ 4,000            | \$ -              | \$ -              | \$ -              | \$ -              | \$ -                | \$ 20,000              | \$ 20,000              | \$ 20,000  | \$ 36,835  | \$ 16,835                               |
|                            | <b>SUB-TOTAL</b>                               | <b>\$ 185,600</b>                         | <b>\$ 28,600</b>    | <b>\$ 28,600</b>    | <b>\$ 28,600</b>    | <b>\$ 28,600</b>    | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>       | <b>\$ -</b>         | <b>\$ 300,000</b>      | <b>\$ 300,000</b>      | <b>\$ 300,000</b>                                | <b>\$ 552,524</b>                                  | <b>\$ 252,524</b>                       |
| Solid Waste                | Waste Sites                                    | \$ 39,855                                 | \$ 39,855           | \$ 39,855           | \$ 39,855           | \$ 23,188           | \$ 6,522          | \$ 6,522          | \$ 6,522          | \$ 6,522          | \$ 6,522            | \$ 215,217             | \$ 300,000             | \$ 300,000                                       | \$ 411,476   | \$ 111,476                              |
|                            | Closure Cost (Annual Contribution to Reserves) | \$ 15,301                                 | \$ 15,301           | \$ 15,301           | \$ 15,301           | \$ 10,279           | \$ 5,257          | \$ 5,257          | \$ 5,257          | \$ 5,257          | \$ 5,257            | \$ 97,763              | \$ 166,098             | \$ 166,098                                       | \$ 250,177   | \$ 84,079                               |
|                            | <b>SUB-TOTAL</b>                               | <b>\$ 55,156</b>                          | <b>\$ 55,156</b>    | <b>\$ 55,156</b>    | <b>\$ 55,156</b>    | <b>\$ 33,467</b>    | <b>\$ 11,778</b>  | <b>\$ 11,778</b>  | <b>\$ 11,778</b>  | <b>\$ 11,778</b>  | <b>\$ 11,778</b>    | <b>\$ 312,981</b>      | <b>\$ 466,098</b>      | <b>\$ 466,098</b>                                | <b>\$ 661,653</b>                                  | <b>\$ 195,555</b>                       |
| Buildings                  | Buildings - General Government                 | \$ 13,000                                 | \$ 13,000           | \$ 13,000           | \$ 13,000           | \$ 13,000           | \$ 8,000          | \$ 8,000          | \$ 8,000          | \$ 8,000          | \$ 8,000            | \$ 105,000             | \$ 105,000             | \$ 105,000                                       | \$ 165,287   | \$ 60,287                               |
|                            | Buildings - Protection Services                | \$ 8,500                                  | \$ 8,500            | \$ 8,500            | \$ 8,500            | \$ 8,500            | \$ 500            | \$ 500            | \$ 500            | \$ 500            | \$ 500              | \$ 45,000              | \$ 45,000              | \$ 45,000  | \$ 54,708  | \$ 9,708                                |
|                            | Buildings - Recreation Services                | \$ 46,676                                 | \$ 35,676           | \$ 35,676           | \$ 35,676           | \$ 32,926           | \$ 20,926         | \$ 11,759         | \$ 1,474          | \$ 1,474          | \$ 1,474            | \$ 223,737             | \$ 233,200             | \$ 240,000                                       | \$ 384,024   | \$ 144,024                              |
|                            | Buildings - Environmental Services             | \$ 8,000                                  | \$ 1,000            | \$ 1,000            | \$ 1,000            | \$ 1,000            | \$ 1,000          | \$ 1,000          | \$ -              | \$ -              | \$ -                | \$ 14,000              | \$ 14,000              | \$ 14,000  | \$ 20,988  | \$ 6,988                                |
|                            | <b>SUB-TOTAL</b>                               | <b>\$ 76,176</b>                          | <b>\$ 58,176</b>    | <b>\$ 58,176</b>    | <b>\$ 58,176</b>    | <b>\$ 55,426</b>    | <b>\$ 30,426</b>  | <b>\$ 21,259</b>  | <b>\$ 9,974</b>   | <b>\$ 9,974</b>   | <b>\$ 9,974</b>     | <b>\$ 387,737</b>      | <b>\$ 397,200</b>      | <b>\$ 404,000</b>                                | <b>\$ 625,006</b>                                  | <b>\$ 221,006</b>                       |
| Lands                      | Land (General Government)                      | \$ 2,917                                  | \$ 2,917            | \$ 2,917            | \$ 2,917            | \$ 2,917            | \$ 2,917          | \$ 2,917          | \$ 2,917          | \$ 2,917          | \$ 2,917            | \$ 29,167              | \$ 35,000              | \$ 35,000  | \$ 46,955  | \$ 11,955                               |
|                            | Land (Recreation Services)                     | \$ 112,053                                | \$ 18,420           | \$ 18,420           | \$ 18,420           | \$ 18,420           | \$ 18,420         | \$ 18,420         | \$ 9,848          | \$ 9,848          | \$ 9,848            | \$ 252,118             | \$ 274,802             | \$ 288,584                                       | \$ 423,324   | \$ 134,740                              |
|                            | <b>SUB-TOTAL</b>                               | <b>\$ 114,970</b>                         | <b>\$ 21,336</b>    | <b>\$ 21,336</b>    | <b>\$ 21,336</b>    | <b>\$ 21,336</b>    | <b>\$ 21,336</b>  | <b>\$ 21,336</b>  | <b>\$ 12,765</b>  | <b>\$ 12,765</b>  | <b>\$ 12,765</b>    | <b>\$ 281,284</b>      | <b>\$ 309,802</b>      | <b>\$ 323,584</b>                                | <b>\$ 470,279</b>                                  | <b>\$ 146,696</b>                       |
| Vehicles and Equipment     | Equipment (General Government)                 | \$ 61,500                                 | \$ 7,500            | \$ 7,500            | \$ 7,500            | \$ 5,000            | \$ 5,000          | \$ 5,000          | \$ 5,000          | \$ 5,000          | \$ 5,000            | \$ 114,000             | \$ 114,000             | \$ 114,000                                       | \$ 144,578   | \$ 30,578                               |
|                            | Equipment (Protection Services)                | \$ 38,967                                 | \$ 7,967            | \$ 967              | \$ 967              | \$ 967              | \$ 967            | \$ 967            | \$ 967            | \$ 967            | \$ -                | \$ 53,700              | \$ 53,700              | \$ 53,700  | \$ 63,140  | \$ 9,440                                |
|                            | Equipment (Recreation Services)                | \$ 31,333                                 | \$ 1,333            | \$ 1,333            | \$ 1,333            | \$ 1,333            | \$ 1,333          | \$ 1,333          | \$ 1,333          | \$ 1,333          | \$ 1,333            | \$ 43,333              | \$ 46,000              | \$ 46,000  | \$ 59,986  | \$ 13,986                               |
|                            | Equipment (Transportation Services)            | \$ 43,813                                 | \$ 43,813           | \$ 43,813           | \$ 43,813           | \$ 43,813           | \$ 42,013         | \$ 42,013         | \$ 42,013         | \$ 42,013         | \$ 42,013           | \$ 429,130             | \$ 546,500             | \$ 546,500                                       | \$ 819,275   | \$ 272,775                              |
|                            | Equipment (Environmental Services)             | \$ 181,000                                | \$ 1,000            | \$ 1,000            | \$ 1,000            | \$ 1,000            | \$ 1,000          | \$ 1,000          | \$ 1,000          | \$ 1,000          | \$ 1,000            | \$ 190,000             | \$ 195,000             | \$ 195,000                                       | \$ 294,848   | \$ 99,848                               |
|                            | Vehicles (Protection Services)                 | \$ 599,362                                | \$ 75,362           | \$ 75,362           | \$ 15,362           | \$ 15,362           | \$ 15,362         | \$ 8,696          | \$ 8,696          | \$ 8,696          | \$ 8,696            | \$ 830,957             | \$ 944,000             | \$ 944,000                                       | \$ 1,516,327                                       | \$ 572,327                              |
|                            | Vehicles (Environmental Services)              | \$ 194,524                                | \$ 9,524            | \$ 9,524            | \$ 9,524            | \$ 9,524            | \$ 9,524          | \$ 9,524          | \$ 9,524          | \$ 9,524          | \$ 9,524            | \$ 280,238             | \$ 385,000             | \$ 385,000                                       | \$ 548,018   | \$ 163,018                              |
|                            | Vehicles (Transport Services)                  | \$ 276,490                                | \$ 76,490           | \$ 76,490           | \$ 76,490           | \$ 46,990           | \$ 6,990          | \$ 324            | \$ 324            | \$ 324            | \$ 324              | \$ 561,235             | \$ 563,500             | \$ 563,500                                       | \$ 658,287   | \$ 94,787                               |
| <b>SUB-TOTAL</b>           | <b>\$ 1,426,989</b>                            | <b>\$ 222,989</b>                         | <b>\$ 215,989</b>   | <b>\$ 155,989</b>   | <b>\$ 123,989</b>   | <b>\$ 82,189</b>    | <b>\$ 68,856</b>  | <b>\$ 68,856</b>  | <b>\$ 68,856</b>  | <b>\$ 67,889</b>  | <b>\$ 2,502,593</b> | <b>\$ 2,847,700</b>    | <b>\$ 2,847,700</b>    | <b>\$ 4,104,458</b>                              | <b>\$ 1,256,758</b>                                |   |
| <b>ALL ASSETS</b>          |  | TOTAL Projected Contributions to Reserves |                     |                     |                     |                     |                   |                   |                   |                   |                     | <b>TOTAL (10 year)</b> | <b>TOTAL (30 Year)</b> | <b>Total Required Reserve (Replacement Cost)</b> | <b>Estimated Borrowing Cost (Replacement Cost)</b> | <b>Difference (Borrowing - Savings)</b> |
|                            |  | <b>2014</b>                               | <b>2015</b>         | <b>2016</b>         | <b>2017</b>         | <b>2018</b>         | <b>2019</b>       | <b>2020</b>       | <b>2021</b>       | <b>2022</b>       | <b>2023</b>         |                        |                        |  |  |   |
|                            |  | <b>\$ 4,419,680</b>                       | <b>\$ 1,473,272</b> | <b>\$ 1,360,072</b> | <b>\$ 1,135,105</b> | <b>\$ 1,061,854</b> | <b>\$ 830,275</b> | <b>\$ 803,859</b> | <b>\$ 281,487</b> | <b>\$ 270,987</b> | <b>\$ 248,352</b>   | <b>\$ 11,884,944</b>   | <b>\$ 13,079,795</b>   | <b>\$ 13,100,377</b>                             | <b>\$ 21,205,891</b>                               | <b>\$ 8,105,515</b>                     |

Notes:  
1. See Notes and Assumptions from Tables 3 and 6.

Table 3a  
Detailed Summary of Municipal Assets - Roads  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup> | Asset Name <sup>1,2</sup>     | Operating Department <sup>1,2</sup> | Surface Type<br>(Gravel/Earth/DST/LCB-<br>SST/LCB/HCB/HCB-DST)<br><sup>2</sup> | Section No. <sup>2</sup> | Roadside<br>Environment <sup>1</sup> | Road Location From <sup>2</sup> | Road Location To <sup>2</sup> | Quantity Length<br>(kilometres) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy<br>(years) | Projected Replacement or<br>Upgrade Year <sup>1</sup> | Total Score <sup>2</sup> | RSI Factor <sup>2</sup> | Initial Value <sup>1</sup> | Accumulated<br>Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Maintenance Cost<br>(10 Years) <sup>4</sup> | Replacement Cost<br>(20 Years) <sup>4</sup> | Maintenance and<br>Replacement Cost | Condition Rating<br>(good/fair/poor) <sup>4</sup> | Level of Service<br>(Road Class) <sup>4</sup> | Comments <sup>2</sup>   |
|-----------------------|-------------------------------|-------------------------------------|--|--------------------------|--------------------------------------|---------------------------------|-------------------------------|--|------------------------------|----------------------------------|---|--------------------------|-------------------------|----------------------------|--|---------------------------|---|---|-------------------------------------|---|---|---|
| RD10                  | Airy Road                     | Trans Services                      | DST  | 1                        | Rural                                | Hwy 60                          | 0.9 km west of Hwy 60         | 0.9  | 1999                         | 16                               | 2015  | 6                        | 85                      | \$ 107,231                 | \$ 26,808                                | \$ 77,742                 | \$ 22,500                                   | \$ 66,600                                   | \$ 89,100                           | poor  | 5   |   |
| RD410 &<br>RD415      | Aylen Lake Road               | Trans Services                      | Gravel (DST for 2014)  | 41                       | Rural                                | Hwy 60                          | Boat Launch                   | 8.5  | 1997                         | 16                               | 2013  | 11                       | 72.5                    | \$ 637,746                 | \$ 255,098                               | \$ 361,389                | \$ -  | \$ 1,309,275                                | \$ 1,309,275                        | poor  | 4   | Replacement as Double Surface Treatment (DST) anticipated for 2014. Replacement cost includes DST surface, gravel base, guiderail/ditching/culvert upgrades, engineering and consulting, and 15% contingency. Also included are approximately 0.5 km of paving on Gaffney Road and North Aylen Lake Road and a small parking lot. |
| RD400                 | Spectacle Lake Road           | Trans Services                      | DST  | 40                       | Rural                                | Hwy 60                          | End of Dickens                | 1.5  | 1988                         | 26                               | 2014  | 17                       | 57.5                    | \$ 141,761                 | \$ 74,425                                | \$ 63,792                 | \$ 37,500                                   | \$ 111,000                                  | \$ 148,500                          | fair  | 4   | No safety devices are present near lake   |
| RD785                 | Pastwa Lake Road              | Trans Services                      | Earth  | 78a                      | Rural                                | 2.7 km east of Proven Line      | End                           | 3.3  | 1990                         | 26                               | 2016  | 20                       | 50                      | \$ 145,479                 | \$ 92,137                                | \$ 48,493                 | \$ 52,800                                   | \$ 79,200                                   | \$ 132,000                          | poor  | 6   | Approx. 2,000 tonnes crushed gravel to bring road up to suitable surface.   |
| RD20                  | Airy Road                     | Trans Services                      | Gravel   | 2                        | Rural                                | 0.9 km west of Hwy 60           | 1.2 km west of Hwy 60         | 0.3  | 2000                         | 15                               | 2015  | 7                        | 82.5                    | \$ 26,567                  | \$ 7,970                                 | \$ 17,711                 | \$ 4,800                                    | \$ 7,200                                    | \$ 12,000                           | fair  | 5   |   |
| RD600                 | Tom and Mick Murray Park Road | Trans Services                      | Gravel   | 60                       | Rural                                | Hwy 523                         | End                           | 0.6  | 2001                         | 19                               | 2020  | 5                        | 87.5                    | \$ 54,470                  | \$ 14,525                                | \$ 38,129                 | \$ 9,600                                    | \$ 14,400                                   | \$ 24,000                           | good  | 6   |   |
| RD430                 | Burnt Depot Road              | Trans Services                      | Gravel   | 43                       | Rural                                | Gaffney Rd                      | End                           | 0.5  | 1995                         | 25                               | 2020  | 13                       | 67.5                    | \$ 40,657                  | \$ 18,973                                | \$ 20,329                 | \$ 8,000                                    | \$ 12,000                                   | \$ 20,000                           | fair  | 6   |   |
| RD120                 | Dave Bowers Road              | Trans Services                      | Gravel   | 12                       | Rural                                | Hay Creek Rd                    | 0.1 km west of Hay Creek Road | 0.1  | 1995                         | 20                               | 2015  | 14                       | 65                      | \$ 8,131                   | \$ 3,794                                 | \$ 4,066                  | \$ 1,600                                    | \$ 2,400                                    | \$ 4,000                            | good  | 6   |   |
| RD510                 | Dunnies Road                  | Trans Services                      | Gravel   | 51                       | Rural                                | Hwy 60                          | End                           | 2.1  | 1988                         | 33                               | 2021  | 23                       | 42.5                    | \$ 124,712                 | \$ 87,298                                | \$ 33,257                 | \$ 33,600                                   | \$ 50,400                                   | \$ 84,000                           | good  | 6   | Many pot holes on road  |
| RD420                 | Gaffney Road                  | Trans Services                      | Gravel   | 42                       | Rural                                | Aylen Lake Rd                   | End                           | 5.5  | 1997                         | 23                               | 2020  | 11                       | 72.5                    | \$ 461,526                 | \$ 184,610                               | \$ 261,531                | \$ 88,000                                   | \$ 132,000                                  | \$ 220,000                          | good  | 4   |   |
| RD110                 | Hay Creek Road                | Trans Services                      | Gravel   | 11                       | Rural                                | 1.25 km south Post St           | McCrae Mill                   | 0.75   | 1992                         | 24                               | 2016  | 18                       | 55                      | \$ 58,480                  | \$ 24,854                                | \$ 32,164                 | \$ 12,000                                   | \$ 18,000                                   | \$ 30,000                           | good  | 5   |   |
| RD720                 | Hayward Road                  | Trans Services                      | Gravel   | 72                       | Rural                                | Hay Lake Landing Road           | End                           | 1.6  | 1995                         | 25                               | 2020  | 13                       | 67.5                    | \$ 130,104                 | \$ 60,715                                | \$ 65,052                 | \$ 25,600                                   | \$ 38,400                                   | \$ 64,000                           | fair  | 6   | Flooding and erosion in vicinity of twin culverts   |
| RD760                 | Henry Coghlan Road            | Trans Services                      | Gravel   | 76                       | Rural                                | McKenzie Lake Rd                | End                           | 1.9  | 1999                         | 21                               | 2020  | 8                        | 80                      | \$ 163,846                 | \$ 54,615                                | \$ 103,769                | \$ 30,400                                   | \$ 45,600                                   | \$ 76,000                           | fair  | 6   | Base failure at 1.4 km and 1.8 km on Marriots Driveway (30m)  |
| RD240                 | Hilltop Cres.                 | Trans Services                      | Gravel   | 24                       | Rural                                | Hwy 60                          | End                           | 0.4  | 2002                         | 18                               | 2020  | 4                        | 90                      | \$ 33,363                  | \$ 7,785                                 | \$ 24,466                 | \$ 6,400                                    | \$ 9,600                                    | \$ 16,000                           | good  | 5   |   |
| RD790                 | Kuick Road                    | Trans Services                      | Gravel   | 79                       | Rural                                | Pastwa Lake Rd                  | End                           | 0.8  | 2002                         | 16                               | 2018  | 4                        | 90                      | \$ 74,260                  | \$ 17,327                                | \$ 54,457                 | \$ 12,800                                   | \$ 19,200                                   | \$ 32,000                           | fair  | 6   | Roadway should be brushed, services 1 seasonal dwelling   |
| RD160                 | Lakeshore Drive               | Trans Services                      | Gravel   | 16                       | Rural                                | Hay Creek Rd                    | Third Avenue                  | 0.6  | 1996                         | 19                               | 2015  | 12                       | 70                      | \$ 49,513                  | \$ 21,456                                | \$ 26,407                 | \$ 9,600                                    | \$ 14,400                                   | \$ 24,000                           | fair  | 5   |   |
| RD670                 | Lyell Lake Landing Road       | Trans Services                      | Gravel   | 67                       | Rural                                | Hwy 523                         | End                           | 0.4  | 2003                         | 11                               | 2014  | 4                        | 94                      | \$ 38,170                  | \$ 7,634                                 | \$ 29,264                 | \$ 6,400                                    | \$ 9,600                                    | \$ 16,000                           | fair  | 6   | Approx. 750 tonnes of crushed gravel required to bring road up to suitable surface.   |
| RD710                 | Hay Lake Landing Road         | Trans Services                      | Gravel   | 71                       | Rural                                | Hay Lake Rd                     | Hayward Rd                    | 1.1  | 1998                         | 22                               | 2020  | 9                        | 77.5                    | \$ 93,224                  | \$ 34,182                                | \$ 55,934                 | \$ 17,600                                   | \$ 26,400                                   | \$ 44,000                           | good  | 4   |   |
| RD310                 | Madawaska St.                 | Trans Services                      | Gravel   | 32                       | Rural                                | 0.5 km east Post St.            | 1.4 km east Post St           | 0.9  | 1988                         | 30                               | 2018  | 18                       | 55                      | \$ 37,803                  | \$ 19,847                                | \$ 17,011                 | \$ 14,400                                   | \$ 21,600                                   | \$ 36,000                           | good  | 5   | Many pot holes on road  |
| RD640                 | McCaulley Lake Road           | Trans Services                      | Gravel   | 64                       | Rural                                | Major Lake Rd                   | End                           | 3.15   | 2000                         | 22                               | 2022  | 7                        | 82.5                    | \$ 278,949                 | \$ 83,685                                | \$ 185,966                | \$ 50,400                                   | \$ 75,600                                   | \$ 126,000                          | good  | 5   |   |
| RD680                 | McGuey Road                   | Trans Services                      | Gravel   | 68                       | Rural                                | Hwy 127                         | End                           | 4.7  | 1999                         | 21                               | 2020  | 8                        | 80                      | \$ 405,302                 | \$ 135,101                               | \$ 256,691                | \$ 75,200                                   | \$ 112,800                                  | \$ 188,000                          | good  | 4   |   |
| RD730                 | McKenzie Lake Road            | Trans Services                      | Gravel   | 73                       | Rural                                | Hwy 127                         | Sabine Boundary (south)       | 8.7  | 1997                         | 23                               | 2020  | 11                       | 72.5                    | \$ 730,051                 | \$ 292,020                               | \$ 413,696                | \$ 139,200                                  | \$ 208,800                                  | \$ 348,000                          | good  | 5   | Rock ditching required 0.6 to 0.7 km to eliminate flooding, grade raise required 1.7 to 1.9 km to eliminate flooding  |
| RD440                 | Moonlight Bay Road            | Trans Services                      | Gravel   | 44                       | Rural                                | Gaffney Rd                      | End                           | 2.2  | 1997                         | 23                               | 2020  | 11                       | 72.5                    | \$ 184,611                 | \$ 73,844                                | \$ 104,613                | \$ 35,200                                   | \$ 52,800                                   | \$ 88,000                           | good  | 4   |   |
| RD360                 | Nipissing Road                | Trans Services                      | Gravel   | 38                       | Rural                                | 0.6 km east of Algonquin St.    | 2.3 km east of Algonquin St.  | 1.7  | 1997                         | 23                               | 2020  | 14                       | 65                      | \$ 102,872                 | \$ 30,862                                | \$ 69,439                 | \$ 27,200                                   | \$ 40,800                                   | \$ 68,000                           | good  | 5   |   |
| RD750                 | North McKenzie Lake Road      | Trans Services                      | Gravel   | 75                       | Rural                                | McKenzie Lake Rd                | End                           | 8.9  | 1998                         | 22                               | 2020  | 10                       | 75                      | \$ 754,269                 | \$ 276,565                               | \$ 452,561                | \$ 142,400                                  | \$ 213,600                                  | \$ 356,000                          | good  | 5   | Improvement need to be made to culverts   |
| RD460                 | North Aylen Lake Road         | Trans Services                      | Gravel   | 46                       | Rural                                | Aylen Lake                      | End                           | 7.6  | 1998                         | 22                               | 2020  | 10                       | 75                      | \$ 644,095                 | \$ 236,168                               | \$ 386,457                | \$ 121,600                                  | \$ 182,400                                  | \$ 304,000                          | good  | 5   | Realignment from 0.2 to 0.5 km culvert required at fire route 8 and at 2.4 km both 9 m X 600 mm CSP   |
| RD700                 | McCrae-Hay Lake Road          | Trans Services                      | Gravel   | 70                       | Rural                                | Hay Lake Lodge                  | End                           | 2.6  | 1998                         | 22                               | 2020  | 10                       | 75                      | \$ 220,348                 | \$ 80,794                                | \$ 132,209                | \$ 41,600                                   | \$ 62,400                                   | \$ 104,000                          | fair  | 4   |   |
| RD490                 | Old Farm Road                 | Trans Services                      | Gravel   | 49                       | Rural                                | North Aylen Lake Road           | End                           | 0.7  | 1995                         | 45                               | 2040  | 13                       | 67.5                    | \$ 51,146                  | \$ 23,868                                | \$ 25,573                 | \$ 11,200                                   | \$ 16,800                                   | \$ 28,000                           | poor  | 6   | Approx. 500 tonnes of crushed gravel required to bring road up to suitable surface.   |
| RD390 /<br>RD395      | Old Highway 127               | Trans Services                      | Gravel   | 39                       | Rural                                | Hwy 60                          | Hwy 127                       | 5.4  | 1995                         | 23                               | 2018  | 13 and 17                | 67.5 and 57.5           | \$ 425,733                 | \$ 229,865                               | \$ 181,678                | \$ 86,400                                   | \$ 129,600                                  | \$ 216,000                          | fair  | 4   | Erosion and flooding areas, due to ditches and beaver ponds   |
| RD500                 | Papilinskie Road              | Trans Services                      | Gravel   | 50                       | Rural                                | Hwy 60                          | End                           | 2.1  | 1998                         | 22                               | 2020  | 10                       | 75                      | \$ 177,974                 | \$ 65,257                                | \$ 106,784                | \$ 33,600                                   | \$ 50,400                                   | \$ 84,000                           | good  | 4   | Raise grade for 200 m section to eliminate flooding, install new 8 m X 600 mm of CSP pipe culvert and road side ditching  |
| RD780                 | Pastwa Lake Road              | Trans Services                      | Gravel   | 78                       | Rural                                | Proven Line                     | 2.7 km east of Proven Line    | 2.7  | 2001                         | 15                               | 2016  | 5                        | 87.5                    | \$ 245,114                 | \$ 65,364                                | \$ 171,580                | \$ 43,200                                   | \$ 64,800                                   | \$ 108,000                          | good  | 6   |   |
| RD470                 | Pringles Road                 | Trans Services                      | Gravel   | 47                       | Rural                                | North Road                      | End                           | 1.8  | 1995                         | 25                               | 2020  | 13                       | 67.5                    | \$ 131,518                 | \$ 61,375                                | \$ 65,759                 | \$ 28,800                                   | \$ 43,200                                   | \$ 72,000                           | good  | 6   |   |
| RD770                 | Proven Line                   | Trans Services                      | Gravel   | 77                       | Rural                                | McKenzie Lake Rd                | Pastwa Lake Rd                | 1.6  | 2004                         | 16                               | 2020  | 2                        | 95                      | \$ 155,501                 | \$ 25,917                                | \$ 124,401                | \$ 25,600                                   | \$ 38,400                                   | \$ 64,000                           | good  | 6   |   |
| RD660                 | Reid's Road                   | Trans Services                      | Gravel   | 66                       | Rural                                | Hwy 523                         | End                           | 0.1  | 2002                         | 23                               | 2025  | 4                        | 90                      | \$ 9,283                   | \$ 2,166                                 | \$ 6,808                  | \$ 1,600                                    | \$ 2,400                                    | \$ 4,000                            | good  | 6   |   |
| RD480                 | Shields Road                  | Trans Services                      | Gravel   | 48                       | Rural                                | North Road                      | End                           | 0.3  | 1995                         | 45                               | 2040  | 13                       | 67.5                    | \$ 21,920                  | \$ 10,229                                | \$ 10,960                 | \$ 4,800                                    | \$ 7,200                                    | \$ 12,000                           | poor  | 6   | Approx. 500 tonnes of crushed gravel required to bring road up to suitable surface.   |
| RD740                 | South McKenzie Lake Road      | Trans Services                      | Gravel   | 74                       | Rural                                | McKenzie Lake Rd                | End                           | 2.6  | 1995                         | 25                               | 2020  | 13                       | 67.5                    | \$ 211,418                 | \$ 98,662                                | \$ 105,709                | \$ 41,600                                   | \$ 62,400                                   | \$ 104,000                          | good  | 6   |   |
| RD50                  | Sunset Trail                  | Trans Services                      | Gravel   | 5                        | Rural                                | Maple Drive                     | End                           | 0.6  | 2004                         | 16                               | 2020  | 2                        | 95                      | \$ 58,313                  | \$ 9,719                                 | \$ 46,650                 | \$ 9,600                                    | \$ 14,400                                   | \$ 24,000                           | good  | 6   | Showing base failure  |

Table 3a  
Detailed Summary of Municipal Assets - Roads  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup>                      | Asset Name <sup>1,2</sup> | Operating Department <sup>1,2</sup> | Surface Type<br>(Gravel/Earth/DST/LCB-<br>SST/LCB/HCB/HCB-DST)<br><sup>2</sup> | Section No. <sup>2</sup> | Roadside<br>Environment <sup>1</sup> | Road Location From <sup>2</sup> | Road Location To <sup>2</sup> | Quantity Length<br>(kilometres) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy<br>(years) | Projected Replacement or<br>Upgrade Year <sup>1</sup> | Total Score <sup>2</sup> | RSI Factor <sup>2</sup> | Initial Value <sup>1</sup> | Accumulated<br>Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Maintenance Cost<br>(10 Years) <sup>4</sup> | Replacement Cost<br>(20 Years) <sup>4</sup> | Maintenance and<br>Replacement Cost | Condition Rating<br>(good/fair/poor) <sup>4</sup> | Level of Service<br>(Road Class) <sup>4</sup> | Comments <sup>2</sup>   |
|--|---------------------------|-------------------------------------|--|--------------------------|--------------------------------------|---------------------------------|-------------------------------|--|------------------------------|----------------------------------|---|--------------------------|-------------------------|----------------------------|--|---------------------------|---|---|-------------------------------------|---|---|---|
| RD630                                      | Victoria Lake Road        | Trans Services                      | Gravel   | 63                       | Rural                                | Major Lake Rd                   | End                           | 6.3  | 2000                         | 20                               | 2020  | 7                        | 82.5                    | \$ 557,897                 | \$ 167,369                               | \$ 371,931                | \$ 100,800                                  | \$ 151,200                                  | \$ 252,000                          | good  | 6   |   |
| RD450                                      | Whites Road               | Trans Services                      | Gravel   | 45                       | Rural                                | Aylen Lake Rd                   | End                           | 0.7  | 1999                         | 21                               | 2020  | 8                        | 80                      | \$ 60,364                  | \$ 20,121                                | \$ 38,231                 | \$ 11,200                                   | \$ 16,800                                   | \$ 28,000                           | good  | 5   |   |
| RD80                                       | Galeairy Lake Cres.       | Trans Services                      | Gravel   | 8                        | Semi - Urban                         | Galeairy Lake Cres.             | End                           | 0.1  | 1995                         | 23                               | 2018  | 13                       | 67.5                    | \$ 10,449                  | \$ 4,876                                 | \$ 5,225                  | \$ 1,600                                    | \$ 2,400                                    | \$ 4,000                            | good  | 6   |   |
| RD250                                      | Church Hill St.           | Trans Services                      | Gravel   | 25                       | Semi - Urban                         | 0.45 East Post Street           | Hwy. 60                       | 0.3  | 1990                         | 30                               | 2020  | 13                       | 67.5                    | \$ 12,266                  | \$ 5,826                                 | \$ 6,133                  | \$ 4,800                                    | \$ 7,200                                    | \$ 12,000                           | good  | 5   |   |
| RD140-3                                    | Lake St.                  | Trans Services                      | Gravel   |                          | Semi - Urban                         | South of Third Avenue           | Lakeshore Drive               | 0.15   | 2007                         | 11                               | 2018  | n/a                      | n/a                     | \$ 7,884                   | \$ 394                                   | \$ 7,293                  | \$ 2,400                                    | \$ 3,600                                    | \$ 6,000                            | good  | 5   |   |
| RD230                                      | Paradise Road             | Trans Services                      | Gravel   | 23                       | Semi - Urban                         | 1.1 km south of Hwy 60          | End                           | 1.3  | 1994                         | 26                               | 2020  | 15                       | 62.5                    | \$ 132,893                 | \$ 66,446                                | \$ 62,017                 | \$ 20,800                                   | \$ 31,200                                   | \$ 52,000                           | fair  | 5   |   |
| RD150                                      | Boat Launch Road          | Trans Services                      | HCB  | 15                       | Rural                                | Ottawa St.                      | 0.10 west of Ottawa St.       | 0.1  | 1992                         | 38                               | 2030  | 13                       | 67.5                    | \$ 16,083                  | \$ 6,835                                 | \$ 8,846                  | \$ 1,000                                    | \$ 13,900                                   | \$ 14,900                           | good  | 5   | Paved in 2011   |
| RD350                                      | Algonquin Cres.           | Trans Services                      | HCB  | 35                       | Rural                                | Algonquin St.                   | End                           | 0.4  | 2013                         | 30                               | 2043  | 12                       | 64                      | \$ 43,962                  | \$ 19,783                                | \$ 23,080                 | \$ 12,000                                   | \$ 55,600                                   | \$ 67,600                           | good  | 5   |   |
| RD60                                       | Birch Cres.               | Trans Services                      | HCB  | 6                        | Semi - Urban                         | Birch Cres.                     | End                           | 0.15   | 2013                         | 30                               | 2043  | 12                       | 70                      | \$ 15,892                  | \$ 6,357                                 | \$ 9,138                  | \$ 4,500                                    | \$ 20,850                                   | \$ 25,350                           | good  | 6   |   |
| RD70                                       | Hemlock Cres.             | Trans Services                      | HCB  | 7                        | Semi - Urban                         | Hemlock Cres                    | End                           | 0.15   | 2013                         | 30                               | 2043  | 13                       | 67.5                    | \$ 15,595                  | \$ 6,628                                 | \$ 8,577                  | \$ 4,500                                    | \$ 20,850                                   | \$ 25,350                           | good  | 6   |   |
| RD40                                       | Maple Drive               | Trans Services                      | HCB  | 4                        | Semi - Urban                         | Galeairy Lake Rd (North)        | Galeairy Lake Rd (South)      | 0.85   | 2013                         | 30                               | 2043  | 13                       | 67.5                    | \$ 97,975                  | \$ 41,639                                | \$ 53,886                 | \$ 25,500                                   | \$ 118,150                                  | \$ 143,650                          | good  | 5   |   |
| RD590                                      | Fire Route - Pump House   | Trans Services                      | HCB  | 59                       | Rural                                | Major Lake Rd                   | End                           | 0.15   | 2005                         | 30                               | 2035  | 0                        | 100                     | \$ 14,898                  | \$ 1,986                                 | \$ 12,415                 | \$ 2,000                                    | \$ 20,850                                   | \$ 22,850                           | good  | 5   |   |
| RD90                                       | Fire Route - Dam          | Trans Services                      | HCB  | 9                        | Semi - Urban                         | Galeairy Lake Rd                | End                           | 0.1  | 1998                         | 27                               | 2025  | 7                        | 82.5                    | \$ 10,678                  | \$ 2,936                                 | \$ 7,475                  | \$ 20,000                                   | \$ 13,900                                   | \$ 33,900                           | good  | 6   |   |
| RD170                                      | First Ave.                | Trans Services                      | HCB  | 17                       | Semi - Urban                         | Hay Creek Rd                    | Ottawa St.                    | 0.2  | 1990                         | 27                               | 2017  | 15                       | 62.5                    | \$ 18,338                  | \$ 8,711                                 | \$ 9,169                  | \$ 3,750                                    | \$ 27,800                                   | \$ 31,550                           | poor  | 5   |   |
| RD255                                      | Church Hill St.           | Trans Services                      | HCB  | 25a                      | Semi - Urban                         | 0.1 km east of Post St.         | 0.45 km. E                    | 0.35   | 1992                         | 28                               | 2020  | 15                       | 62.5                    | \$ 32,856                  | \$ 13,964                                | \$ 18,071                 | \$ 5,000                                    | \$ 48,650                                   | \$ 53,650                           | fair  | 5   |   |
| RD140-2                                    | Lake St.                  | Trans Services                      | HCB  | 14                       | Semi - Urban                         | Second Ave.                     | Third Ave.                    | 0.45   | 2010                         | 30                               | 2040  | 16                       | 60                      | \$ 551,851                 | \$ 41,389                                | \$ 496,666                | \$ 5,000                                    | \$ 62,550                                   | \$ 67,550                           | good  | 5   |   |
| RD200                                      | Mill St.                  | Trans Services                      | HCB  | 20                       | Semi - Urban                         | First Ave.                      | Second Ave.                   | 0.2  | 1988                         | 30                               | 2018  | 17                       | 57.5                    | \$ 16,654                  | \$ 8,743                                 | \$ 7,494                  | \$ 10,000                                   | \$ 75,000                                   | \$ 85,000                           | poor  | 5   |   |
| RD180                                      | Second Ave.               | Trans Services                      | HCB  | 18                       | Semi - Urban                         | Hay Creek Rd                    | 0.2 km west of Hay Creek Rd.  | 0.2  | 1997                         | 21                               | 2018  | 14                       | 65                      | \$ 21,145                  | \$ 6,343                                 | \$ 14,273                 | \$ 5,000                                    | \$ 27,800                                   | \$ 32,800                           | fair  | 5   |   |
| RD190                                      | Third Ave.                | Trans Services                      | HCB  | 19                       | Semi - Urban                         | Hay Creek Rd                    | Lakeshore Drive               | 0.15   | 1988                         | 32                               | 2020  | 8                        | 80                      | \$ 12,490                  | \$ 6,557                                 | \$ 5,620                  | \$ 10,000                                   | \$ 20,850                                   | \$ 30,850                           | good  | 5   | Sealant should be applied in the 10 year maintenance plan                                       |
| RD270                                      | Church Hill St.           | Trans Services                      | HCB  | 27                       | Urban                                | Post Street                     | 0.1 km. E                     | 0.1  | 1999                         | 20                               | 2019  | 6                        | 85                      | \$ 32,954                  | \$ 8,238                                 | \$ 23,892                 | \$ 9,600                                    | \$ 13,900                                   | \$ 23,500                           | fair  | 5   |   |
| RD130 /<br>RD280-2 /<br>RD280-3 /<br>RD210 | Ottawa St.                | Trans Services                      | HCB  | 13/21                    | Urban                                | Hwy 60                          | Second Ave.                   | 0.65   | 2010                         | 30                               | 2040  | 0                        | 100                     | \$ 1,003,107               | \$ 94,757                                | \$ 883,272                | \$ 19,500                                   | \$ 90,350                                   | \$ 109,850                          | good  | 5   | 2004 construction probable good condition   |
| RD295                                      | Post St.                  | Trans Services                      | HCB  | 28                       | Urban                                | Medical Center Rd               | Hwy 60                        | 0.4  | 2009                         | 31                               | 2040  | 18                       | 55                      | \$ 600,000                 | \$ -                                     | \$ -                      | \$ 20,000                                   | \$ 55,600                                   | \$ 75,600                           | good  | 4   | Reconstruction from Medical Centre Rd. to Highway 60 in 2009                                    |
| RD320                                      | Madawaska Ave.            | Trans Services                      | HCB  | 31                       | Rural                                | Post Street                     | 0.5 km west Post Street       | 0.5  | 2009                         | 30                               | 2039  | 17                       | 57.5                    | \$ 62,378                  | \$ 35,347                                | \$ 24,951                 | \$ 12,500                                   | \$ 47,000                                   | \$ 59,500                           | good  | 5   |   |
| RD100                                      | Hay Creek Road            | Trans Services                      | HCB-DST  | 10                       | Semi - Urban                         | Ottawa St.                      | 1.25km South Ottawa Street    | 1.25   | 2005                         | 11                               | 2016  | 0                        | 100                     | \$ 156,422                 | \$ 15,642                                | \$ 136,869                | \$ 31,250                                   | \$ 92,500                                   | \$ 123,750                          | good  | 5   |   |
| RD340                                      | Algonquin St.             | Trans Services                      | LCB  | 34                       | Rural                                | Madawaska St.                   | End                           | 0.85   | 1992                         | 24                               | 2016  | 13                       | 67.5                    | \$ 94,773                  | \$ 40,279                                | \$ 52,125                 | \$ 21,250                                   | \$ 79,900                                   | \$ 101,150                          | poor  | 5   |   |
| RD330                                      | Madawaska St.             | Trans Services                      | LCB  | 33                       | Rural                                | Hwy 60                          | Madawaska St.                 | 0.1  | 1991                         | 26                               | 2017  | 14                       | 65                      | \$ 10,990                  | \$ 4,946                                 | \$ 5,770                  | \$ 2,500                                    | \$ 9,400                                    | \$ 11,900                           | poor  | 5   |   |
| RD30                                       | Galeairy Lake Road        | Trans Services                      | LCB  | 3                        | Semi - Urban                         | Maple Drive                     | Hwy 60                        | 0.7  | 1996                         | 19                               | 2015  | 9                        | 77.5                    | \$ 72,778                  | \$ 23,653                                | \$ 47,306                 | \$ 17,500                                   | \$ 65,800                                   | \$ 83,300                           | fair  | 5   |   |
| RD290                                      | Post St.                  | Trans Services                      | LCB  | 29                       | Semi - Urban                         | Medical Center Rd               | End                           | 0.2  | 1998                         | 19                               | 2017  | 7                        | 82.5                    | \$ 34,303                  | \$ 9,433                                 | \$ 24,012                 | \$ 5,000                                    | \$ 18,800                                   | \$ 23,800                           | fair  | 5   |   |
| RD300                                      | Medical Centre Road       | Trans Services                      | LCB  | 30                       | Semi - Urban                         | Post Street                     | End                           | 0.3  | 2000                         | 20                               | 2020  | 5                        | 87.5                    | \$ 65,105                  | \$ 14,649                                | \$ 48,829                 | \$ 7,500                                    | \$ 28,200                                   | \$ 35,700                           | good  | 5   |   |
| RD380                                      | Nipissing Road            | Trans Services                      | LCB  | 36                       | Semi - Urban                         | Algonquin St.                   | 0.6 km east of Algonquin St.  | 0.6  | 1995                         | 30                               | 2025  | 8                        | 80                      | \$ 138,235                 | \$ 64,510                                | \$ 69,118                 | \$ 15,000                                   | \$ 56,400                                   | \$ 71,400                           | good  | 5   |   |
| RD260                                      | Park St.                  | Trans Services                      | LCB  | 26                       | Semi - Urban                         | Hwy 60                          | Paradise Rd                   | 0.25   | 2000                         | 18                               | 2018  | 5                        | 87.5                    | \$ 55,972                  | \$ 12,594                                | \$ 41,979                 | \$ 6,250                                    | \$ 23,500                                   | \$ 29,750                           | fair  | 5   |   |
| RD690                                      | McCrae-Hay Lake Road      | Trans Services                      | LCB-SST  | 69                       | Rural                                | Hwy 127                         | Hay Lake Lodge                | 4.7  | 1999                         | 21                               | 2020  | 6                        | 85                      | \$ 769,632                 | \$ 192,408                               | \$ 557,983                | \$ 117,500                                  | \$ 441,800                                  | \$ 559,300                          | good  | 4   | Isolated base failure at 3.5 km for 30 m. Washout repaired in 2013 with hot mix and guide rails |
| RD610                                      | Major Lake Road           | Trans Services                      | LCB-SST  | 61                       | Rural                                | Hwy 60                          | Victoria Lake Rd              | 7.9  | 2001                         | 24                               | 2025  | 4                        | 90                      | \$ 1,409,702               | \$ 281,940                               | \$ 1,092,519              | \$ 197,500                                  | \$ 742,600                                  | \$ 940,100                          | good  | 4   |   |
| RD615                                      | Major Lake Road           | Trans Services                      | LCB-SST  | 61a                      | Rural                                | Victoria Lake Rd                | McCawley Lake Rd              | 3.5  | 1999                         | 26                               | 2025  | 6                        | 85                      | \$ 593,260                 | \$ 148,315                               | \$ 430,114                | \$ 87,500                                   | \$ 329,000                                  | \$ 416,500                          | good  | 4   | Last 100 metres should be reconstructed A.S.A.P   |
| RD580                                      | Victoria St.              | Trans Services                      | LCB-SST  | 58                       | Rural                                | Hwy 60                          | Major Lake Rd                 | 0.2  | 2003                         | 17                               | 2020  | 2                        | 95                      | \$ 39,804                  | \$ 5,971                                 | \$ 32,838                 | \$ 5,000                                    | \$ 18,800                                   | \$ 23,800                           | good  | 5   |   |
| RD520                                      | Dawson Road               | Trans Services                      | LCB-SST  | 52                       | Semi - Urban                         | Hwy 60 west                     | Hwy 60 east                   | 0.8  | 2002                         | 18                               | 2020  | 3                        | 92.5                    | \$ 223,765                 | \$ 39,159                                | \$ 179,012                | \$ 20,000                                   | \$ 75,200                                   | \$ 95,200                           | good  | 5   |   |
| RD530                                      | Merton Street             | Trans Services                      | LCB-SST  | 53                       | Semi - Urban                         | Murchison Rd                    | Hwy 60                        | 0.6  | 2000                         | 20                               | 2020  | 5                        | 87.5                    | \$ 114,747                 | \$ 25,818                                | \$ 86,060                 | \$ 15,000                                   | \$ 56,400                                   | \$ 71,400                           | good  | 5   |   |

Table 3a  
Detailed Summary of Municipal Assets - Roads  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup>       | Asset Name <sup>1,2</sup> | Operating Department <sup>1,2</sup> | Surface Type<br>(Gravel/Earth/DST/LCB-<br>SST/LCB/HCB/HCB-DST)<br><sup>2</sup> | Section No. <sup>2</sup> | Roadside<br>Environment <sup>1</sup> | Road Location From <sup>2</sup> | Road Location To <sup>2</sup> | Quantity Length<br>(kilometres) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy<br>(years) | Projected Replacement or<br>Upgrade Year <sup>1</sup> | Total Score <sup>2</sup> | RSI Factor <sup>2</sup> | Initial Value <sup>1</sup> | Accumulated<br>Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Maintenance Cost<br>(10 Years) <sup>4</sup> | Replacement Cost<br>(20 Years) <sup>4</sup> | Maintenance and<br>Replacement Cost | Condition Rating<br>(good/fair/poor) <sup>4</sup> | Level of Service<br>(Road Class) <sup>5</sup> | Comments <sup>2</sup> |
|-----------------------------|---------------------------|-------------------------------------|--|--------------------------|--------------------------------------|---------------------------------|-------------------------------|--|------------------------------|----------------------------------|---|--------------------------|-------------------------|----------------------------|--|---------------------------|---|---|-------------------------------------|---|---|-----------------------|
| RD540                       | Murchison Road            | Trans Services                      | LCB-SST  | 54                       | Semi - Urban                         | Dawson Street                   | End                           | 0.3  | 2003                         | 17                               | 2020  | 4                        | 94                      | \$ 61,824                  | \$ 9,274                                 | \$ 51,005                 | \$ 7,500                                    | \$ 28,200                                   | \$ 35,700                           | good  | 5   |                       |
| RD220                       | Paradise Road             | Trans Services                      | LCB-SST  | 22                       | Semi - Urban                         | Hwy 60                          | 1.1 km south of Hwy 60        | 1.1  | 1998                         | 20                               | 2018  | 7                        | 82.5                    | \$ 117,454                 | \$ 32,300                                | \$ 82,218                 | \$ 27,500                                   | \$ 103,400                                  | \$ 130,900                          | good  | 5   |                       |
| RD550 /<br>RD560 /<br>RD570 | Holstein St.              | Trans Services                      | LCB-SST  | 55/56/57                 | Semi - Urban                         | Merton Rd                       | End                           | 0.58   | 2004                         | 18                               | 2022  | 2                        | 97                      | \$ 128,399                 | \$ 20,498                                | \$ 104,692                | \$ 14,500                                   | \$ 54,520                                   | \$ 69,020                           | good  | 5   |                       |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012) and/or based on information supplied by the Township of South Algonquin.
2. Road Assessment and Management Plan (2005) and/or based on information supplied by the Township of South Algonquin.
3. Data from Township of South Algonquin, Road Network (2011) and/or based on information supplied by the Township of South Algonquin.
4. Based on Information supplied by the Township of South Algonquin.
5. Level of Service based on Township of South Algonquin Road Classification numbers.

Selected Focus Item

| Road Type  | Length (in kilometres) | Percentage of Total Road Network |
|--|------------------------|----------------------------------|
| Gravel   | 83.85                  | 65.98%                           |
| Earth  | 3.30                   | 2.60%                            |
| Double Surface Treatment (DST)                               | 10.90                  | 8.58%                            |
| High Class Bituminous (HCB)                                  | 5.10                   | 4.01%                            |
| High Class Bituminous (HCB) - Double Surface Treatment (DST) | 1.25                   | 0.98%                            |
| Low Class Bituminous (LCB)                                   | 3.00                   | 2.36%                            |
| Low Class Bituminous (LCB) - Single Surface Treatment (SST)  | 19.68                  | 15.49%                           |
| <b>TOTAL</b>   | <b>127.08</b>          | <b>100.00%</b>                   |

**Table 3b**  
Detailed Summary of Municipal Assets - Bridges & Large Culverts  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup> | Asset Name <sup>1,2</sup> | Detailed Asset Description (Bridge / Culvert) <sup>2</sup> | Construction Materials (wood/steel/concrete/etc.) <sup>2</sup> | Surface Deck Material <sup>2</sup> | Address and/or GPS Location (if applicable) <sup>1</sup> | Quantity <sup>1</sup> | Culvert Size (mm) <sup>3</sup> | Location According to Section (km) <sup>2</sup> | Year in Service and/or Last Upgrade Year <sup>1,4</sup> | Asset Life Expectancy (years) <sup>2</sup> | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Condition of Substructure (good / fair / poor) <sup>4</sup> | Element <sup>2</sup> | Repair and Rehabilitation Required <sup>2</sup>             | Priority Performance Deficiencies <sup>2</sup>  | Priority Timeline (6-10yr, 1-5yr, Within 1yr, Urgent) <sup>2</sup> | Estimated Repair and Rehabilitation Cost <sup>2</sup> | Total Repair or Replacement Cost <sup>4</sup> | Level of Service (1 to 5) <sup>5</sup> | Comments   |
|-----------------------|---------------------------|--|--|------------------------------------|--|-----------------------|--------------------------------|---|---|--|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|---|----------------------|---|---|--|---|---|--|--|
| EQP230                | Algonquin Street Bridge   | Bridge   | wood/concrete/steel  | Timber                             | Algonquin St   | 1                     | -                              | -   | 2004  | 0  | 2013                                  | \$ 213,848                  | \$ 114,052                            | \$ 71,283                 | good  | Structure            | Concrete Patch Repairs                                      | -   | Urgent   | \$ 5,000  | \$ -  | 4                                      | Repairs Completed in 2013. No further action required at this time |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Structure            | Surface and Seal  |   | 1-5yr  | \$ 5,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Traffic Control      | -   |   | -  | \$ 1,500  |   |  |  |
| EQP231                | Madawaska River Bridge    | Bridge   | wood/concrete/steel (Primarily wood)                           | Timber                             | Major Lake Road  | 1                     | -                              | -   | 1960  | 5  | 2018                                  | \$ 1                        | \$ 1                                  | \$ -                      | good  | Deck                 | Replace wearing surface                                     | 08, Pedestrian & vehicular hazards  | 1-5yr  | \$ 30,000   | \$ 123,000                                    | 4                                      |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Sidewalk/ Curb       | Curbs   |   | Within 1yr   | \$ 5,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Barriers             | Replace damage  |   | Within 1yr   | \$ 2,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Regrade and Re-pave approaches                              |   | 1-5yr  | \$ 15,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Installation of Rock Protection                             |   | -  | \$ 3,500  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Repair Wingwall   |   | -  | \$ 2,500  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Approaches           | Install proper rail end treatments with next rehab          |   | -  | \$ 40,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Traffic Control      | -   |   | -  | \$ 5,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Start-up costs for general contractor - Insurance etc.      |   | -  | \$ 20,000   |   |  |  |
| EQP232                | Moore's Creek Bridge      | Bridge   | wood/concrete/steel (Primarily wood)                           | Timber                             | North Mackenzie Lake Rd                                  | 1                     | -                              | -   | 1960  | 0  | 2013                                  | \$ 1                        | \$ 1                                  | \$ -                      | good  | Sidewalk/ Curb       | Replace Curbs   | -   | 6-10yr   | \$ 7,000  | \$ 72,000                                     | 4                                      |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Barriers             | Upgrade blocks and ends                                     |   | Urgent   | \$ 25,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Restore / Stabilize Structure Backfill                      |   | Urgent   | \$ 25,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Traffic Control      | -   |   | -  | \$ 5,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Contractor  |   | -  | \$ 10,000   |   |  |  |
| EQP233                | Poverty Creek Bridge      | Bridge   | wood/concrete (Primarily concrete)                             | Concrete Culvert / Timber Deck     | Old Hwy 127  | 1                     | -                              | -   | 1945  | 0  | 2013                                  | \$ 1                        | \$ 1                                  | \$ -                      | good  | Barriers             | Install barrier   | 14, Undermining of foundation   | Urgent   | \$ 35,000   | \$ 65,000                                     | 3                                      |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Abutments            | Repair wall bottom and prevent undermining                  |   | 1-5yr  | \$ 10,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Replace & Extend Headwall                                   |   | Urgent   | \$ 3,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Traffic Control      | -   |   | -  | \$ 2,000  |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | General costs including dewatering                          |   | -  | \$ 15,000   |   |  |  |
| EQP234                | Airy Pedestrian Bridge    | Bridge   | steel  | Timber                             | Airy Trail   | 1                     | -                              | -   | 1995  | 0  | 2013                                  | \$ 1                        | \$ 1                                  | \$ -                      | fair  | Abutments            | Restore Timber Wingwalls                                    | 01, Load carrying Capacity / 02, Excessive deformations / 03, Continuing settlement / 08, Pedestrian & vehicular hazards / 15, Unstable embankments | 1-5yr  | \$ 5,000  | \$ 20,000                                     | 2                                      |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Other                | Restore Bearing Materials At Bin Wall                       |   | Urgent   | \$ 10,000   |   |  |  |
|                       |                           |  |  |                                    |  |                       |                                |   |   |  |                                       |                             |                                       |                           |   | Approaches           | Replace railings and rebuild approaches to prevent washouts |   | -  | \$ 5,000  |   |  |  |
| -                     | Victoria Lake Rd          | Culvert  | steel  | Gravel                             | Major Lake Rd to End                                     | 2                     | 3000 multi                     | 1.9   | 1983  | 35   | 2018                                  | \$ 1                        | \$ 1                                  | \$ -                      | fair  | -                    | -   | \$ -  | \$ 20,000  | 3   | May need immediate attention                  |  |  |

Notes:  
1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).  
2. 2013 OSIM Bridge Inspection (J.D. Jewell Engineering Inc.).  
3. Road Assessment and Management Plan (2005).  
4. Based on information supplied by the Township of South Algonquin.  
5. Level of Service: 1 = very low priority, 5 = very high priority.

Selected Focus Item

**Table 3c**  
**Detailed Summary of Municipal Assets - Solid Waste**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID | Asset Name <sup>1,2</sup>  | Detailed Asset Description (WDS / WTS) <sup>1,2</sup> | Address <sup>1,2</sup>        | Units          | Remaining Capacity <sup>3</sup> | Years in Service <sup>1,2</sup> | Asset Life Expectancy (years) <sup>3</sup> | Projected Replacement or Upgrade Year | Last Topographical Survey <sup>1,2</sup> | Original Value <sup>4</sup> | Replacement Cost <sup>5,6</sup> | Condition Rating (good / fair / poor) <sup>5</sup> | Level of Service (1 to 5) <sup>7</sup> | Comments                        |
|----------|--|---|-------------------------------|----------------|---------------------------------|---------------------------------|--|---------------------------------------|--|-----------------------------|---------------------------------|--|--|---------------------------------|
| -        | Airy Waste Disposal Site   | WDS   | Lot 9 and 10, Concession 7, 8 | m <sup>3</sup> | 46,140                          | 2006                            | 23   | 2036                                  | 2012                                     | \$ 5,000                    | \$ 150,000                      | good   | 3                                      |                                 |
| -        | Madawaska (Murchison and Lyell) Landfill Site  | WDS   | Lot 12 and 13, Concession 13  | m <sup>3</sup> | 8,237                           | 1980                            | 4.5  | 2017.5                                | 2012                                     | \$ 5,000                    | \$ 150,000                      | good   | 4                                      | Property currently owned by MTO |
| -        | Airy Waste Disposal Site - Closure Cost (Annual Contributions to Reserve)                      | WDS   | Lot 9 and 10, Concession 7, 8 | m <sup>3</sup> | 46,140                          | 2006                            | 23   | 2036                                  | 2012                                     | \$ -                        | \$ 120,900                      | -  | -                                      |                                 |
| -        | Madawaska (Murchison and Lyell) Landfill Site - Closure Cost (Annual Contributions to Reserve) | WDS   | Lot 12 and 13, Concession 13  | m <sup>3</sup> | 8,237                           | 1980                            | 4.5  | 2017.5                                | 2012                                     | \$ -                        | \$ 45,198                       | -  | -                                      |                                 |

Notes:

1. Airy Landfill Site 2012 Annual Operations Report (Jp2g Consultants Inc., 2013).
2. Madawaska Landfill Site 2012 Annual Report (Jp2g Consultants Inc., 2013).
3. Capacity Calculations (Jp2g Consultants Inc., 2013).
4. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
5. Based on information supplied by the Township of South Algonquin.
6. Solid Waste Landfill Closure Costs (Jp2g Consultants Inc., 2013). Total includes cover material, topsoil and seed.
7. Level of Service: 1 = very low priority, 5 = very high priority.

Selected Focus Item

**Table 3d**  
**Detailed Summary of Municipal Assets - Buildings**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup>    | Asset Name <sup>1</sup>                                     | Operating Department <sup>1</sup> | Address <sup>1</sup>           | Year in Service <sup>1</sup> | Asset Life Expectancy (years) | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Upgrade or Replacement Cost <sup>2</sup> | Condition Rating (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Comments  |
|--------------------------|---|-----------------------------------|--------------------------------|------------------------------|-------------------------------|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|--|--|--|---|
| BL010-07                 | Trailer - Land Fill Site - Office                           | Env. Services                     | -                              | 2000                         | 20                            | 2020                                  | \$ 856                      | \$ 513                                | \$ 299                    | \$ 7,000                                 | fair   | 2                                      | Airy WDS  |
| BL040-10                 | Landfill Trailer - Madawaska                                | Env. Services                     | -                              | 1994                         | 20                            | 2014                                  | \$ 769                      | \$ 692                                | \$ 38                     | \$ 7,000                                 | fair   | 2                                      | Madawaska WDS   |
| BL010-01                 | FHT/Medical Centre/Library Complex - Medical Office/Library | Gen Gov                           | -                              | 2004                         | 19                            | 2023                                  | \$ 123,029                  | \$ 69,716                             | \$ 51,262                 | \$ 20,000                                | good   | 5                                      | General Upgrades anticipated for 2023. Previous Upgrades (2004) - \$169000 / HVAC System: Installed 2008 - Estimated Replacement Date 2028 / Lighting Upgrades Date: 2010   |
| BL040-01                 | Madawaska Storage #1  | Gen Gov                           | 25231 Highway 60, Madawaska    | 1980                         | 43                            | 2023                                  | \$ 61,087                   | \$ 32,580                             | \$ 27,489                 | \$ 10,000                                | good   | 2                                      | General upgrades required by 2023. HVAC system: Disconnected from Propane. Electric Services: 1980, 100 Amp Service / Lighting Upgrade Date: 2010   |
| BL010-05                 | Resource Centre - Office                                    | Gen Gov                           | 9 Post Street, Whitney         | 2004                         | 14                            | 2018                                  | \$ 85,262                   | \$ 11,368                             | \$ 72,473                 | \$ 25,000                                | fair   | 3                                      | Upgrades required (entrance concrete replacement and A/C) by 2018. Previous Upgrades (2004) - \$60000 / Electric Heating System : Installed 2003 - Estimated Replacement 2023 / Split Air Condition (AC) System - Installed 2003 - Estimated Replacement Date 2018 - AC Replacement Budget :\$5000.00 / Lighting Upgrade Date 2010  |
| BL010-06                 | Municipal Office / Senior Centre                            | Gen Gov                           | 7 Third Avenue, Whitney        | 1999                         | 24                            | 2023                                  | \$ 642,300                  | \$ 32,115                             | \$ 606,024                | \$ 50,000                                | good   | 5                                      | General upgrades (2023) and Boiler/Condenser replacement (2019) by 2023. Previous Upgrades (1999) / HVAC System: Installed 1999 - Estimated Replacement Date 2019 of Boiler and Condenser Replacement Budget: \$30,000.00 / Lighting Upgrade Date: 2010   |
| BL010-02                 | Whitney Fire Hall/EMS Complex - Fire Hall/Ambulance         | Pro Services                      | 31 Hay Creek Road, Whitney     | 2012                         | 6                             | 2018                                  | \$ 124,506                  | \$ 70,553                             | \$ 58,363                 | \$ 40,000                                | fair   | 5                                      | Upgrades required to building envelope by 2018. Water damage noted to mezzanine ceiling and no vapour barrier observed on warm side of insulation. Previous Upgrades (2012) - \$16000 - \$ 74000 / HVAC System: 2012 - Estimated Replacement Date 2032 / Electric Services: Fire Hall 1980, 100 Amp Service / Electric Services: Ambulance Station 2012, 200 Amp Service / Lighting Upgrade Date for Firehall: 2010 / New Lighting Installed in the New Ambulance Addition Date: 2012 |
| BL040-17.2<br>BL040-17.5 | MultiPurpose Bldg - Fire                                    | Pro Services                      | 26C Major Lake Road, Madawaska | 2009                         | 14                            | 2023                                  | \$ 547,891                  | \$ 18,263                             | \$ 520,497                | \$ 5,000                                 | good   | 5                                      | General upgrades required for 2023. HVAC System: Installed 2009 - Estimated Replacement Date 2029 / Lighting Upgrade Date: 2010   |
| BL010-03                 | Lester B Smith Community Centre - Recreation Centre         | Rec & Cult Services               | 32 Hay Creek Road, Whitney     | 2000                         | 20                            | 2020                                  | \$ 377,921                  | \$ 75,584                             | \$ 296,038                | \$ 40,000                                | fair   | 5                                      | Upgrades required to building envelope by 2018 and boiler replacement by 2020. Consistent gap noted above steel door frames and exterior architectural block - Possible location of water infiltration  |
| BL010-04                 | Recreation Storage Building - Storage - Ball Diamond        | Rec & Cult Services               | -                              | 2000                         | 60                            | 2060                                  | \$ 4,278                    | \$ 856                                | \$ 3,351                  | \$ 12,000                                | fair   | 1                                      |   |
| BL010-14                 | Whitney Park Picnic Area Gazebo - Recreation                | Rec & Cult Services               | -                              | 2000                         | 18                            | 2018                                  | \$ 14,631                   | \$ 8,779                              | \$ 5,121                  | \$ 10,000                                | fair   | 1                                      | Upgrades required by 2018. Structure in fair condition. Gazebo posts are in contact with ground and one post was noted to have extensive wood rot. No Mechanical or Electrical Services   |
| BL010-15                 | Sun Shelter-Bark Lake Park                                  | Rec & Cult Services               | -                              | 2012                         | 20                            | 2032                                  | \$ 8,751                    | \$ -                                  | \$ 8,313                  | \$ 9,000                                 | good   | 1                                      | Shelter in excellent condition and no upgrades required   |
| BL010-19                 | Galeairy Boat Launch Privy - Double                         | Rec & Cult Services               | -                              | 1992                         | 25                            | 2017                                  | \$ 1,883                    | \$ 1,883                              | \$ -                      | \$ 5,000                                 | fair   | 2                                      |   |
| BL010-20                 | Centennial Park Privy Men's - Double washroom               | Rec & Cult Services               | -                              | 1992                         | 25                            | 2017                                  | \$ 1,883                    | \$ 1,883                              | \$ -                      | \$ 3,000                                 | fair   | 2                                      |   |
| BL010-21                 | Centennial Park Privy Women's - Double washroom             | Rec & Cult Services               | -                              | 1992                         | 25                            | 2017                                  | \$ 1,883                    | \$ 1,883                              | \$ -                      | \$ 3,000                                 | fair   | 2                                      |   |
| BL010-22                 | Whitney Beach Change Room/Privy - Recreation Building       | Rec & Cult Services               | -                              | 1989                         | 29                            | 2018                                  | \$ 28,000                   | \$ 10,733                             | \$ 16,800                 | \$ 50,000                                | poor   | 2                                      | Structure in poor condition and replacement required by 2018.   |
| BL010-23                 | Baseball Diamond Privy Men's - Double washroom              | Rec & Cult Services               | -                              | 1989                         | 25                            | 2014                                  | \$ 2,348                    | \$ 2,348                              | \$ -                      | \$ 3,000                                 | fair   | 2                                      |   |
| BL010-24                 | Baseball Diamond Privy Women's - Double washroom            | Rec & Cult Services               | -                              | 1989                         | 25                            | 2014                                  | \$ 3,354                    | \$ 3,354                              | \$ -                      | \$ 3,000                                 | fair   | 2                                      |   |
| BL020-04                 | Aylen Lake Boat Launch-Privy - Aylen Lake                   | Rec & Cult Services               | -                              | 1984                         | 30                            | 2014                                  | \$ 2,717                    | \$ 2,717                              | \$ -                      | \$ 5,000                                 | poor   | 2                                      |   |

**Table 3d**  
**Detailed Summary of Municipal Assets - Buildings**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup>                                | Asset Name <sup>1</sup>                       | Operating Department <sup>1</sup> | Address <sup>1</sup>            | Year in Service <sup>1</sup> | Asset Life Expectancy (years) | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Upgrade or Replacement Cost <sup>2</sup> | Condition Rating (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Comments  |
|--|---|-----------------------------------|---------------------------------|------------------------------|-------------------------------|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|--|--|--|---|
| BL030-01   | Tom/Mick Murray Change Room - Bark Lake       | Rec & Cult Services               | -                               | 2000                         | 20                            | 2020                                  | \$ 16,088                   | \$ 9,653                              | \$ 5,631                  | \$ 20,000                                | good   | 2                                      |   |
| BL030-05   | Tom/Mick Murray Park Privy - Bark Lake        | Rec & Cult Services               | -                               | 2000                         | 20                            | 2020                                  | \$ 8,556                    | \$ 5,134                              | \$ 2,995                  | \$ 9,000                                 | good   | 2                                      |   |
| BL030-07   | Tom/Mick Murray Boat Launch Privy - Bark Lake | Rec & Cult Services               | -                               | 2000                         | 20                            | 2020                                  | \$ 4,278                    | \$ 2,567                              | \$ 1,497                  | \$ 3,000                                 | good   | 2                                      |   |
| BL040-06   | Mervin Dupuis Memorial Building - Madawaska   | Rec & Cult Services               | 26C Major Lake Road, Madawaska  | 1999                         | 20                            | 2019                                  | \$ 56,973                   | \$ 37,032                             | \$ 17,092                 | \$ 33,000                                | fair   | 3                                      | Upgrades required to roofing and boiler by 2019. South facing asphalt shingle roof in poor condition and the 1:4 slope of roof would require special application practices. Staining to roof requires further investigation. HVAC System: Installed 1999 – Estimated Replacement Date 2019 of Boiler Only - Replacement Budget: \$13,000.00 / Lighting Upgrade Date: 2010 |
| BL040-08   | Rink Building Pump House - Madawaska          | Rec & Cult Services               | 26C Major Lake Road, Madawaska  | 1999                         | 20                            | 2019                                  | \$ 4,832                    | \$ 3,141                              | \$ 1,450                  | \$ 5,500                                 | fair   | 5                                      | Upgrades required to south facing asphalt roof (curling) by 2018 and electrical heating system upgrades by 2019. Estimated Replacement Date 2019 Replacement Budget: \$500.00 / Lighting Upgrade Date: 2010   |
| BL040-09   | Madawaska Storage #2                          | Rec & Cult Services               | -                               | 1999                         | 20                            | 2019                                  | \$ 9,582                    | \$ 6,228                              | \$ 2,874                  | \$ 11,500                                | good   | 2                                      |   |
| BL040-16   | Outdoor Rink Privy - Madawaska                | Rec & Cult Services               | -                               | 1999                         | 20                            | 2019                                  | \$ 833                      | \$ 542                                | \$ 250                    | \$ 5,000                                 | good   | 2                                      |   |
| BL040-17.1<br>BL040-17.3<br>BL040-17.4<br>BL040-17.6 | Library and Community Hall                    | Rec & Cult Services               | 26 A Major Lake Road, Madawaska | 2009                         | 14                            | 2023                                  | \$ 1,017,512                | \$ 33,917                             | \$ 966,637                | \$ 10,000                                | good   | 5                                      | General upgrades required by 2023. HVAC System: Installed 2009 – Estimated Replacement Date 2029 of Furnaces and Condensers Only / Lighting Upgrade Date: 2010  |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin / and or determined by Greenview Environmental Management, Engineering Inspection Review (2013).
3. Level of Service: 1 = very low priority, 5 = very high priority.

Selected Focus Item

**Table 3e**  
**Detailed Summary of Municipal Assets - Land Improvements**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>                      | Asset Class <sup>1</sup> | Operating Department <sup>1</sup> | Detailed Asset Description <sup>1</sup> | Years in Service <sup>1,2</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Comments |
|-----------------------|--|--------------------------|-----------------------------------|---|---------------------------------|--|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|-------------------------------|---|--|----------|
| LA40-05.5             | Municipal Office Parking Lot - Whitney       | Facility                 | Gen Gov                           | Land                                    | 2010                            | 15   | 2025                                  | \$ 26,966                   | \$ 3,595                              | \$ 21,573                 | \$ 35,000                     | good  | 3                                      |          |
| LA10-01               | Fencing-Ball diamond - Whitney               | Facility                 | Rec & Cult Services               | Land                                    | 1985                            | 40   | 2025                                  | \$ 15,425                   | \$ 10,026                             | \$ 5,013                  | \$ 27,300                     | good  | 2                                      |          |
| LA10-02               | Playground Equipment - Lester Smith Building | Facility                 | Rec & Cult Services               | Land                                    | 2005                            | 15   | 2020                                  | \$ 47,784                   | \$ 19,114                             | \$ 25,485                 | \$ 60,000                     | good  | 2                                      |          |
| LA10-15               | Retaining wall - Whitney-Galeairy            | Facility                 | Rec & Cult Services               | Land                                    | 1985                            | 40   | 2025                                  | \$ 4,520                    | \$ 2,938                              | \$ 1,469                  | \$ 8,000                      | good  | 2                                      |          |
| LA10-17               | Cenetaph - Centennial Park                   | Facility                 | Rec & Cult Services               | Land                                    | 1998                            | 50   | 2048                                  | \$ 4,094                    | \$ 1,065                              | \$ 2,948                  | \$ 11,000                     | good  | 3                                      |          |
| LA10-19               | Multi Use Fencing - Madawaska                | Facility                 | Rec & Cult Services               | Land                                    | 2011                            | 15   | 2026                                  | \$ 10,497                   | \$ 700                                | \$ 9,097                  | \$ 15,000                     | good  | 3                                      |          |
| LA10-20               | Whitney Outdoor Rink - Lester Smith Building | Facility                 | Rec & Cult Services               | Land                                    | 1990                            | 20   | 2010                                  | \$ 34,196                   | \$ 34,196                             | \$ -                      | \$ 48,634                     | poor  | 2                                      |          |
| LA30-04               | Playground Equipment - Tom Murray Memorial   | Facility                 | Rec & Cult Services               | Land                                    | 1999                            | 15   | 2014                                  | \$ 16,497                   | \$ 13,197                             | \$ 2,200                  | \$ 30,000                     | fair  | 2                                      |          |
| LA40-03               | Playground Equipment - Madawaska             | Facility                 | Rec & Cult Services               | Land                                    | 1999                            | 15   | 2014                                  | \$ 12,498                   | \$ 9,998                              | \$ 1,666                  | \$ 15,000                     | poor  | 2                                      |          |
| LA40-04               | Madawaska Outdoor Rink - Madawaska           | Facility                 | Rec & Cult Services               | Land                                    | 2006                            | 20   | 2026                                  | \$ 48,634                   | \$ 12,158                             | \$ 34,043                 | \$ 60,000                     | good  | 3                                      |          |
| LA40-05               | Fencing-Ball diamond - Madawaska             | Facility                 | Rec & Cult Services               | Land                                    | 1985                            | 40   | 2025                                  | \$ 7,713                    | \$ 5,013                              | \$ 2,507                  | \$ 13,650                     | good  | 2                                      |          |
| LD010-08              | Whitney Beach and Seniors                    | Facility                 | Rec & Cult Services               | Land                                    | -                               | -  | -                                     | \$ 5,910                    | \$ -                                  | \$ 5,910                  | \$ -                          | -   | 3                                      |          |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin.
3. Level of Service: 1 = very low priority, 5 = very high priority.

Selected Focus Item

Table 3f  
Detailed Summary of Municipal Assets - Vehicles and Equipment  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>                                     | Detailed Asset Description (Equipment/ Vehicle) <sup>1</sup> | Operating Department <sup>1</sup> | Years in Service <sup>1,2</sup> | Asset Life Expectancy (years) | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Comments  |
|-----------------------|---|--|-----------------------------------|---------------------------------|-------------------------------|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|-------------------------------|---|--|---|
| EQP06                 | 1990 John Deere Loader- Waste Disposal - Madawaska Yard     | Equipment  | Env. Services                     | 1991                            | 20                            | 2011                                  | \$ 102,755                  | \$ 102,755                            | \$ -                      | \$ 180,000                    | good  | 3                                      |   |
| EQP237                | Garbage Bins (10 units)                                     | Equipment  | Env. Services                     | 2003                            | 25                            | 2028                                  | \$ 4,013                    | \$ 1,445                              | \$ 2,408                  | \$ 15,000                     | good  | 4                                      | Replacement cost for Garbage Bins = 10 units @ \$1,500 each |
| EQP104                | Generator - Medical Centre                                  | Equipment  | Gen Gov                           | 2003                            | 20                            | 2023                                  | \$ 37,090                   | \$ 16,691                             | \$ 18,545                 | \$ 50,000                     | good  | 5                                      |   |
| EQP220                | Munisoft Software - Municipal Office                        | Equipment  | Gen Gov                           | 2012                            | 5                             | 2017                                  | \$ 10,074                   | \$ -                                  | \$ 9,570                  | \$ 10,000                     | good  | 3                                      | Replaces Munisoft Software from 1999.                       |
| EQP229                | Electric Carnograph/Stand - Medical Centre                  | Equipment  | Gen Gov                           | 2000                            | 10                            | 2010                                  | \$ 5,754                    | \$ 5,754                              | \$ -                      | \$ 6,000                      | good  | 5                                      |   |
| EQP233                | Hancock cell phone - Fire Station                           | Equipment  | Gen Gov                           | 2002                            | 5                             | 2007                                  | \$ 34,647                   | \$ 34,647                             | \$ -                      | \$ 40,000                     | good  | 4                                      |   |
| EQP246                | Software - Asset Management - Administration                | Equipment  | Gen Gov                           | 2008                            | 3                             | 2011                                  | \$ 5,681                    | \$ 4,544                              | \$ 1,137                  | \$ 8,000                      | poor  | 3                                      |   |
| EQP221                | 4 Air Tanks - Fire Station                                  | Equipment  | Pro Services                      | 1999                            | 10                            | 2009                                  | \$ 11,798                   | \$ 11,798                             | \$ -                      | \$ 12,000                     | good  | 5                                      |   |
| EQP223                | Pumps/Hoses - Fire Station                                  | Equipment  | Pro Services                      | 1999                            | 10                            | 2009                                  | \$ 5,780                    | \$ 5,780                              | \$ -                      | \$ 8,500                      | poor  | 5                                      |   |
| EQP224                | Fire Sled - MFD   | Equipment  | Pro Services                      | 2012                            | 10                            | 2022                                  | \$ 2,891                    | \$ -                                  | \$ 2,819                  | \$ 3,500                      | good  | 5                                      |   |
| EQP225                | Bunker Gear   | Equipment  | Pro Services                      | 2012                            | 10                            | 2022                                  | \$ 4,240                    | \$ -                                  | \$ 4,028                  | \$ 5,200                      | good  | 5                                      |   |
| EQP241                | Securitex Gear(8) - Fire Station                            | Equipment  | Pro Services                      | 2005                            | 10                            | 2015                                  | \$ 10,438                   | \$ 7,307                              | \$ 2,088                  | \$ 14,000                     | fair  | 5                                      |   |
| EQP242                | Fire Communications Repeater                                | Equipment  | Pro Services                      | 2005                            | 5                             | 2010                                  | \$ 8,341                    | \$ 8,341                              | \$ -                      | \$ 10,500                     | poor  | 5                                      | Township Fire Equipment Only (shared tower).                |
| EQP10                 | Kubota Riding Lawnmower - Madawaska Yard                    | Equipment  | Rec & Cult Services               | 2005                            | 20                            | 2025                                  | \$ 15,679                   | \$ 4,704                              | \$ 10,191                 | \$ 16,000                     | good  | 3                                      |   |
| EQP103                | Zamboni - Whitney Rink                                      | Equipment  | Rec & Cult Services               | 2001                            | 10                            | 2011                                  | \$ 3,050                    | \$ 3,050                              | \$ -                      | \$ 30,000                     | fair  | 3                                      |   |
| EQP09                 | Champion-740 Grader - Madawaska Yard                        | Equipment  | Trans Services                    | 2004                            | 20                            | 2024                                  | \$ 37,185                   | \$ 13,015                             | \$ 22,311                 | \$ 250,000                    | good  | 5                                      | Grader and Brusher  |
| EQP106                | Tailgate Spreader/Chute - Madawaska Yard                    | Equipment  | Trans Services                    | 2009                            | 20                            | 2029                                  | \$ 8,737                    | \$ 1,311                              | \$ 6,990                  | \$ 10,000                     | good  | 2                                      | Road shoulder maintenance                                   |
| EQP11                 | 20 Ton Float Trailer - Madawaska Yard                       | Equipment  | Trans Services                    | 2007                            | 20                            | 2027                                  | \$ 21,060                   | \$ 4,212                              | \$ 15,795                 | \$ 25,000                     | good  | 3                                      |   |
| EQP12                 | Utility Trailer-Landscape - Madawaska Yard                  | Equipment  | Trans Services                    | 2005                            | 20                            | 2025                                  | \$ 2,430                    | \$ 729                                | \$ 1,580                  | \$ 2,500                      | good  | 3                                      |   |
| EQP13                 | Thompson Steamer - New - Madawaska Yard                     | Equipment  | Trans Services                    | 1998                            | 20                            | 2018                                  | \$ 7,563                    | \$ 5,294                              | \$ 1,891                  | \$ 9,000                      | good  | 5                                      |   |
| EQP16                 | 2001 Volvo Grader - Madawaska Yard                          | Equipment  | Trans Services                    | 2008                            | 20                            | 2028                                  | \$ 155,520                  | \$ 31,104                             | \$ 116,640                | \$ 250,000                    | good  | 4                                      |   |
| T-4                   | Int.- Red Garb/compactor- Waste Collection - Madawaska Yard | Vehicle  | Env. Services                     | 1999                            | 15                            | 2014                                  | \$ 128,612                  | \$ 111,464                            | \$ 8,574                  | \$ 185,000                    | poor  | 5                                      | To be sold (2013) and replaced                              |
| T-23                  | International Work Star Rear Loader Garbage Truck           | Vehicle  | Env. Services                     | 2014                            | 20                            | 2034                                  | \$ 190,000                  | \$ -                                  | \$ 190,000                | \$ 200,000                    | good  | 5                                      | Purchased (2013) - new                                      |
| T5-505                | MFD - Fire Truck  | Vehicle  | Pro Services                      | 2011                            | 25                            | 2036                                  | \$ 111,936                  | \$ 4,477                              | \$ 102,981                | \$ 200,000                    | good  | 5                                      |   |
| TF501                 | 1974 GMC Pumper Truck - Whitney Fire Station                | Vehicle  | Pro Services                      | 1985                            | 25                            | 2010                                  | \$ 42,272                   | \$ 42,272                             | \$ -                      | \$ 180,000                    | good  | 5                                      |   |
| TF502                 | 1991 Ford Rescue Truck - Whitney Fire Station               | Vehicle  | Pro Services                      | 1991                            | 25                            | 2016                                  | \$ 103,656                  | \$ 87,071                             | \$ 12,439                 | \$ 180,000                    | good  | 5                                      |   |
| TF503                 | 1976 Tanker Truck - Whitney Fire Station                    | Vehicle  | Pro Services                      | 1988                            | 25                            | 2013                                  | \$ 47,417                   | \$ 45,520                             | \$ -                      | \$ 150,000                    | fair  | 5                                      | To be replaced (2013) - used                                |
| TF504                 | 1989 Equipment Van  | Vehicle  | Pro Services                      | 1994                            | 25                            | 2019                                  | \$ 2,678                    | \$ 1,928                              | \$ 643                    | \$ 40,000                     | fair  | 5                                      |   |
| TF531                 | 1979 International Pumper - Madawaska Fire Station          | Vehicle  | Pro Services                      | 1979                            | 25                            | 2004                                  | \$ 64,538                   | \$ 64,538                             | \$ -                      | \$ 18,000                     | good  | 5                                      |   |

**Table 3f**  
Detailed Summary of Municipal Assets - Vehicles and Equipment  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>  | Detailed Asset Description (Equipment/ Vehicle) <sup>1</sup> | Operating Department <sup>1</sup> | Years in Service <sup>1,2</sup> | Asset Life Expectancy (years) | Projected Replacement or Upgrade Year | Original Value <sup>1</sup> | Accumulated Depreciation <sup>1</sup> | Ending Value <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Comments               |
|-----------------------|--|--|-----------------------------------|---------------------------------|-------------------------------|---------------------------------------|-----------------------------|---------------------------------------|---------------------------|-------------------------------|---|--|------------------------|
| TF533                 | 1990 Halfton 4X4 - Madawaska Fire Station                            | Vehicle  | Pro Services                      | 1998                            | 15                            | 2013                                  | \$ 12,911                   | \$ 12,050                             | \$ -                      | \$ 26,000                     | good  | 5                                      |                        |
| TF534                 | 1999 Ford F-550 - New - Madawaska Fire Station                       | Vehicle  | Pro Services                      | 1999                            | 15                            | 2014                                  | \$ 139,585                  | \$ 120,974                            | \$ 9,306                  | \$ 150,000                    | good  | 5                                      |                        |
| T-17                  | 2010 Steel Spreader - Madawaska Yard                                 | Vehicle  | Trans Services                    | 2010                            | 20                            | 2030                                  | \$ 5,083                    | \$ 508                                | \$ 4,320                  | \$ 5,500                      | good  | 4                                      |                        |
| T-20                  | Tr#20 2012 -1 Ton Truck w/ Plow                                      | Vehicle  | Trans Services                    | 2012                            | 5                             | 2017                                  | \$ 65,532                   | \$ -                                  | \$ 58,979                 | \$ 68,000                     | good  | 4                                      |                        |
| T-21                  | Truck 21 - F150 4X4 Super Cab  | Vehicle  | Trans Services                    | 2012                            | 5                             | 2017                                  | \$ 31,524                   | \$ -                                  | \$ 25,219                 | \$ 25,000                     | good  | 3                                      |                        |
| T-22                  | Tr#22 F150 4X4 Super Cab   | Vehicle  | Trans Services                    | 2012                            | 5                             | 2017                                  | \$ 31,770                   | \$ -                                  | \$ 25,416                 | \$ 25,000                     | good  | 3                                      |                        |
| T-7                   | 2008 International Yellow Plow/Sander New - Madawaska Yard           | Vehicle  | Trans Services                    | 2008                            | 10                            | 2018                                  | \$ 180,468                  | \$ 72,187                             | \$ 90,234                 | \$ 200,000                    | good  | 5                                      |                        |
| T-8                   | 2004 International - 6X4SBA - Madawaska Yard                         | Vehicle  | Trans Services                    | 2003                            | 10                            | 2013                                  | \$ 182,291                  | \$ 164,062                            | \$ -                      | \$ 200,000                    | good  | 5                                      |                        |
| T-24                  | Tr. 24-2014 Super Duty 4x4 Single Cab (Incl. Western MV P3 Snowplow) | Vehicle  | Trans Services                    | 2014                            | 5                             | 2019                                  | \$ 35,683                   | \$ -                                  | \$ -                      | \$ 40,000                     | good  | 4                                      | Purchased (2013) - new |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin.
3. Level of Service: 1 = very low priority, 5 = very high priority.
4. Assets under \$5000 not interpreted to be significant to the AMP have been excluded from Table 3f.

Selected Focus Item

**Table 4a**  
**Current and Desired Level of Service - Roads**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset                                 | Service Issue          | Current Level of Service             |                                      | Desired Level of Service             |                                      | Performance Measures and Review   |
|---------------------------------------|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|
|                                       |                        | Assess Time                          | Repair Time                          | Assess Time                          | Repair Time                          |   |
| Roads (Gravel)                        | Grading                | As required                          | 1x every 4 weeks                     | Same as current                      | Same as current                      | <p>Complete annual internal review of gravel road conditions (good/fair/poor) and update Asset Management Plan.</p> <p>Complete an Road Needs Study to MTO standards once every 5 years.</p> <p>Review road budget on annual basis and increase maintenance budget if possible.</p> <p>Calcium treatment increase to 2x per year, review if operating/maintenance cost were decreased.</p> <p>Review complaints - frequency and magnitude.</p>  |
|                                       | Resurfacing            | As required                          | As required                          | Same as current                      | Same as current                      |   |
|                                       | Calcium Treatment      | In Spring                            | 1x per year                          | As required                          | 2x per year                          |   |
|                                       | Brushing               | As required                          | 1x every 3 years                     | As required                          | 1x every 2 years                     |   |
|                                       | Ditching               | As required                          | As required                          | As required                          | 10 days per year                     |   |
|                                       | Washout Repairs        | As required                          | As required/ immediately             | Same as current                      | Same as current                      |   |
|                                       | Winter Plowing         | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|                                       | Winter Sanding/Salting | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|                                       | Shoulder Maintenance   | As required                          | As required                          | Same as current                      | Same as current                      |   |
| Roads (DST/ LCB-SST /LCB/HCB/HCB-DST) | Sweeping               | In Spring                            | 1x per year                          | Same as current                      | Same as current                      | <p>Complete annual internal review of gravel road conditions (good/fair/poor) and update Asset Management Plan.</p> <p>Complete an Road Needs Study to MTO standards once every 5 years.</p> <p>Review road budget on annual basis and increase maintenance budget if possible.</p> <p>Performing maintenance (sealant) activities in advance of ongoing treatment deterioration of road surface concurrent with ditching and shoulder maintenance.</p> <p>Review complaints - frequency and magnitude.</p> |
|                                       | Patching/Potholes      | As required                          | As required                          | Same as current                      | Same as current                      |   |
|                                       | Shoulder Maintenance   | As required                          | As required                          | Same as current                      | Same as current                      |   |
|                                       | Resurfacing/Sealant    | As required                          | As required                          | Same as current                      | Same as current                      |   |
|                                       | Brushing               | As required                          | 1x every 3 years                     | As required                          | 1x every 2 years                     |   |
|                                       | Winter Plowing         | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|                                       | Winter Sanding/Salting | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|                                       | Ditching               | As required                          | As required                          | As required                          | 10 days per year                     |   |
|                                       | Washout Repairs        | As required                          | As required                          | Same as current                      | Same as current                      |   |

**Table 4b**  
**Current and Desired Level of Service - Bridges and Large Culverts**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset    | Service Issue          | Current Level of Service             |                                      | Desired Level of Service             |                                      | Performance Measures and Review   |
|----------|------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---|
|          |                        | Assess Time                          | Repair Time                          | Assess Time                          | Repair Time                          |   |
| Bridges  | Sweeping               | In Spring                            | 1x per year                          | Same as current                      | Same as current                      | Perform Bridge Inspections every 2 years.<br>Perform monthly visual inspection.<br>Review complaints - frequency and magnitude. |
|          | Blockages              | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Damages (guide rails)  | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Supports               | Within 1 day                         | Within 3 days                        | Same as current                      | Same as current                      |   |
|          | Winter Plowing         | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|          | Winter Sanding/Salting | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|          | Surface                | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Failure                | ASAP                                 | ASAP                                 | Same as current                      | Same as current                      |   |
| Culverts | Washouts               | Within 1 day                         | Immediately                          | Same as current                      | Same as current                      |   |
|          | Sweeping               | In Spring                            | 1x per year                          | Same as current                      | Same as current                      |   |
|          | Blockages              | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Damages (guide rails)  | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Winter Plowing         | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|          | Winter Sanding/Salting | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements | Per Township Road Class Requirements |   |
|          | Surface                | Within 1 day                         | Within 1 week                        | Same as current                      | Same as current                      |   |
|          | Failure                | ASAP                                 | ASAP                                 | Same as current                      | Same as current                      |   |

**Table 4c**  
**Current and Desired Level of Service - Solid Waste**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset               | Service Issue         | Current Level of Service |               | Desired Level of Service |                 | Performance Measures and Review   |
|---------------------|-----------------------|--------------------------|---------------|--------------------------|-----------------|---|
|                     |                       | Assess Time              | Repair Time   | Assess Time              | Repair Time     |   |
| Waste Disposal Site | Noise                 | Within 24 hours          | Within 3 days | Same as current          | Same as current | Complete annual capacity survey (operational landfills only).<br><br>Annual Diversion Review (ie. Waste Diversion Ontario Datacall or equivalent).<br><br>Daily / weekly / monthly site inspections (per MOE and Environmental Compliance Approval Requirements).<br><br>Annual groundwater / surface water monitoring programs.<br><br>Revise " Condition Rating" (good/fair/poor) for assets in Asset Management Plan on annual basis.<br><br>Operation, maintenance, and replacement of assets in accordance with:<br><br>1. Environmental Protection Act<br><br>2. Ontario Water Resources Act<br><br>3. Any other relevant legislation<br><br>Review complaints - frequency and magnitude. |
|                     | Spills                | ASAP                     | ASAP          | Same as current          | Same as current |   |
|                     | Complaints            | Within 24 hours          | Within 1 week | Same as current          | Same as current |   |
|                     | Fire                  | ASAP                     | ASAP          | Same as current          | Same as current |   |
|                     | Environmental         | ASAP                     | ASAP          | Same as current          | Same as current |   |
|                     | Dust                  | Within 24 hours          | Within 1 week | Same as current          | Same as current |   |
|                     | Breaks / Malfunctions | Within 1 day             | Within 3 days | Same as current          | Same as current |   |
|                     | Maintenance           | Within 1 day             | Within 1 week | Same as current          | Same as current |   |
|                     | Litter                | Within 24 hours          | Within 3 days | Same as current          | Same as current |   |
|                     |                       |                          |               |                          |                 |   |
|                     |                       |                          |               |                          |                 |   |

**Table 4d**  
**Current and Desired Level of Service - Buildings**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset                                | Service Issue | Current Level of Service |               | Desired Level of Service |               | Performance Measures and Review  |
|--------------------------------------|---------------|--------------------------|---------------|--------------------------|---------------|--|
|                                      |               | Assess Time              | Repair Time   | Assess Time              | Repair Time   |  |
| Building<br>(General Government)     | Minor issues  | Within 2 days            | Within 1 week | Within 2 days            | Within 3 days | Perform detailed building inspections minimum once per year.<br><br>Perform engineering review minimum once every 5 years (ie. Structural / mechanical, etc.).<br><br>Revise "Condition Rating" (good, fair, poor) for buildings in Asset Management Plan on annual basis. |
|                                      | Major issues  | Within 4 hours           | Within 1 day  | Within 4 hours           | ASAP          |  |
|                                      |               |                          |               |                          |               |  |
|                                      |               |                          |               |                          |               |  |
| Building<br>(Protective Services)    | Minor issues  | Within 2 day             | Within 1 week | Within 2 days            | Within 1 week | Review accessibility / safety standards / requirements for building and related assets on an annual basis, and/or as required by related legislation.<br><br>Review need to upgrade / update signage at buildings and related assets on annual basis and / or as required. |
|                                      | Major issues  | Within 4 hours           | ASAP          | Within 4 hours           | Immediately   |  |
|                                      |               |                          |               |                          |               |  |
|                                      |               |                          |               |                          |               |  |
| Building<br>(Recreational Services)  | Minor issues  | Within 2 days            | Within 1 week | Within 2 days            | Within 3 days | Review complaints - frequency and magnitude.   |
|                                      | Major issues  | Within 4 hours           | Within 1 day  | Within 4 hours           | ASAP          |  |
|                                      |               |                          |               |                          |               |  |
|                                      |               |                          |               |                          |               |  |
| Building<br>(Environmental Services) | Minor issues  | Within 2 days            | Within 1 week | Within 2 days            | Within 3 days |  |
|                                      | Major issues  | Within 4 hours           | Within 1 day  | Within 4 hours           | ASAP          |  |
|                                      |               |                          |               |                          |               |  |
|                                      |               |                          |               |                          |               |  |

**Table 4e**  
**Current and Desired Level of Service - Land Improvements**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset   | Service Issue | Current Level of Service |             | Desired Level of Service |                 | Performance Measures and Review   |
|---|---------------|--------------------------|-------------|--------------------------|-----------------|---|
|   |               | Assess Time              | Repair Time | Assess Time              | Repair Time     |   |
| Land Improvements<br>(General Government)                 | Resurfacing   | As required              | As required | Same as current          | Same as current | Perform detailed inspections minimum once per year.   |
|   | Sweeping      | In Spring                | 1x per year | Same as current          | Same as current |   |
|   |               |                          |             |                          |                 | Revise "Condition Rating" (good, fair, poor) for land improvements in Asset Management Plan on annual basis.                                |
|   |               |                          |             |                          |                 | Review accessibility / safety standards / requirements for land improvements on an annual basis, and/or as required by related legislation. |
| Land Improvements<br>(Recreational and Cultural Services) | Asset Damage  | As required              | As required | Same as current          | Same as current | Review need to upgrade / update signage at land improvements on annual basis and / or as required.  |
|   | Vandalism     | As required              | As required | Same as current          | Same as current |   |
|   | Litter        | 1x per week              | As required | Same as current          | Same as current | Review complaints - frequency and magnitude.  |
|   |               |                          |             |                          |                 |   |

**Table 4f**  
**Current and Desired Level of Service - Vehicles and Equipment**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset   | Service Issue | Current Level of Service |               | Desired Level of Service |                 | Performance Measures and Review   |
|---|---------------|--------------------------|---------------|--------------------------|-----------------|---|
|   |               | Assess Time              | Repair Time   | Assess Time              | Repair Time     |   |
| Vehicles<br>(Transportation Services)           | Minor issues  | Within 3 days            | Within 1 week | Same as current          | Same as current | Circle checks - 1x per day.<br><br>Maintenance review - 1x every three months (i.e. Oil, filters, tire pressure).   |
|   | Major issues  | Immediately              | ASAP          | Same as current          | Same as current |   |
| Vehicles<br>(Environmental Services)            | Minor issues  | Within 3 days            | Within 1 week | Same as current          | Same as current | Annual safety inspection - 1x per year.<br><br>Seasonal safety inspection / equipment changes (i.e. Snow/summer tires, washer fluid).   |
|   | Major issues  | Immediately              | ASAP          | Same as current          | Same as current |   |
| Vehicles<br>(Protection Services)               | Minor issues  | Within 1 day             | Within 1 week | Same as current          | Same as current | Revise "Condition Rating" of vehicles and equipment (good, fair, poor) in Asset Management Plans.<br><br>On an annual basis, review whether vehicle or equipment assets are meeting current / expected performance and determined whether asset maintenance / upgrades / or replacement are required. |
|   | Major issues  | Immediately              | Immediately   | Same as current          | Same as current |   |
| Equipment<br>(Recreation and Cultural Services) | Minor issues  | Within 3 days            | Within 1 week | Same as current          | Same as current | Review complaints - frequency and magnitude.  |
|   | Major issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
| Equipment<br>(General Government)               | Minor issues  | Within 3 days            | Within 1 week | Same as current          | Same as current |   |
|   | Major issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
| Equipment (Transportation)                      | Minor issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
|   | Major issues  | ASAP                     | ASAP          | Same as current          | Same as current |   |
| Equipment<br>(Protection Services)              | Minor issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
|   | Major issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
| Equipment<br>(Environmental Services)           | Minor issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |
|   | Major issues  | Within 1 day             | ASAP          | Same as current          | Same as current |   |

**Table 5a**  
**Risk Assessment and Management Strategy - Roads**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset                            | Risk Factor   | Risk Elements                           | Planned Actions                           |   |                                    |                                       |                     |  |
|----------------------------------|---|---|---|---|------------------------------------|---------------------------------------|---------------------|--|
|                                  | 1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High |   | Non-Infrastructure Solutions              | Maintenance Activities                    | Renewal/Rehabilitation Activities  | Replacement Activities                | Disposal Activities | Expansion Activities                   |
| Roads (Gravel)                   | 3   | Winter road conditions / severe weather | Monitor weather forecast                  | Sanding / salt / plowing                  | Grading                            | n/a                                   | n/a                 | n/a                                    |
|                                  |   | Washboards / potholes                   | Speed limit reduction / load restrictions | Grading / calcium treatment               | Calcium treatment / new gravel     | n/a                                   | n/a                 | Straighten road / new gravel           |
|                                  |   | Dust                                    | Speed limit reduction                     | Calcium treatment                         | Calcium treatment                  | n/a                                   | n/a                 | n/a                                    |
|                                  |   | Washouts                                | n/a                                       | Upgrade culverts / removal of beaver dams | Upgrade culverts                   | Upgrade culvert / engineered backfill | n/a                 | Upgrade culvert                        |
|                                  |   | Steep embankments                       | Speed limit reduction                     | Repair / install guiderails               | Upgrade guiderails                 | Regrade slope                         | n/a                 | Upgrade guiderails / regrade slope     |
|                                  |   | Drainage                                | n/a                                       | Ditching / grading / culverts             | Additional gravel / ditching       | n/a                                   | n/a                 | Ditching / culverts                    |
|                                  |   | Site lines                              | n/a                                       | Brushing                                  | New signage                        | Brushing / blasting                   | Chipping of brush   | New signage                            |
|                                  |   | Hazards                                 | Speed limit reduction                     | Signage                                   | New signage                        | Removal of hazards                    | n/a                 | New signage                            |
| Roads (DST/ LCB-SST<br>/LCB/HCB) | 4   | Dust                                    | n/a                                       | Sweeping                                  | Sweeping                           | n/a                                   | n/a                 | n/a                                    |
|                                  |   | Washouts                                | n/a                                       | Sweeping / road maintenance               | Upgrade culvert / road replacement | Upgrade culvert / road replacement    | n/a                 | n/a                                    |
|                                  |   | Steep embankments                       | n/a                                       | Repair / install guiderails               | Upgrade culvert / road replacement | Upgrade culvert / road replacement    | n/a                 | Upgrade guiderails / regrade slope     |
|                                  |   | Drainage                                | n/a                                       | Ditching / culvert                        | Ditching / culverts                | Road replacement                      | n/a                 | Ditching / culverts / road replacement |
|                                  |   | Potholes                                | Load restrictions                         | Patching                                  | Patching                           | Road replacement                      | n/a                 | Road replacement                       |
|                                  |   | Winter road condition / severe weather  | Monitor weather forecast                  | Sanding/ salt/ plowing                    | n/a                                | n/a                                   | n/a                 | n/a                                    |

**Table 5b**  
**Risk Assessment and Management Strategy - Bridges and Large Culverts**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset                               | Risk Factor<br>1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High | Risk Elements   | Planned Actions              |                                |                                   |  |  |                      |
|-------------------------------------|--|---|------------------------------|--------------------------------|-----------------------------------|--|--|----------------------|
|                                     |  |   | Non-Infrastructure Solutions | Maintenance Activities         | Renewal/Rehabilitation Activities | Replacement Activities                 | Disposal Activities                                    | Expansion Activities |
| Algonquin Street Bridge             | 5  | 2 access points   | n/a                          | OSIM inspection every 2 years  | Sweeping and flushing             | Replace bridge                         | Local landfill site                                    | n/a                  |
|                                     |  | Inconvenience for residents   | n/a                          | Repair when required           | Signage                           | Abutment repair 2013                   | Any steel / metal recycle through local landfill sites | n/a                  |
|                                     |  | Health and safety issues  |                              | Abutment repairs 2013          |                                   |  |  |                      |
| Madawaska River Bridge              | 5  | Residents could be trapped and unable to get in or out (EMT/ FIRE unable to access) | n/a                          | Sweeping / flushing            | n/a                               | Repair deck 2013                       | Any steel / metal recycle through local landfill sites | n/a                  |
|                                     |  | Health and safety issues  |                              | OSIM inspection every 2 years  |                                   | Propose deck replacement in 2014       | Local landfill site                                    | n/a                  |
|                                     |  |   |                              | Erosion control                |                                   |  |  |                      |
|                                     |  |   |                              | Repair when required           |                                   |  |  |                      |
| Moore's Creek Bridge                | 5  |   |                              | Signage                        |                                   |  |  |                      |
|                                     |  | 1 access point  | n/a                          | OSIM inspection every 2 years  | Sweeping and flushing             | Replace bridge                         | Local landfill site                                    | n/a                  |
|                                     |  | Inconvenience for residents   | n/a                          | Repair when required           | Signage                           | Abutment repair 2013                   | Any steel / metal recycle through local landfill sites | n/a                  |
|                                     |  | Health and safety issues  |                              | Abutment repairs 2013          |                                   |  |  |                      |
|                                     |  | Residents could be trapped and unable to get in or out (EMT/ FIRE unable to access) | n/a                          | Sweeping / flushing            | n/a                               | Repair deck 2013                       | Any steel / metal recycle through local landfill sites | n/a                  |
| Load Restriction                    | n/a  | Signage   | n/a                          | 2018 proposed deck replacement |                                   | n/a                                    |  |                      |
| Poverty Creek Bridge                | 5  | 2 access points   | n/a                          | Abutment repairs               | n/a                               | Repair abutment proposed 2013          | Local landfill site                                    | n/a                  |
|                                     |  | Inconvenience for residents   | n/a                          | OSIM inspection every 2 years  | n/a                               |  | Any steel / metal recycle through local landfill sites | n/a                  |
|                                     |  | Load Restriction  | n/a                          | Requires guide rail system     | n/a                               |  |  |                      |
|                                     |  | Health and safety issues  |                              | Signage                        | n/a                               |  |  |                      |
| Airy Pedestrian Bridge              | 5  |   |                              |                                |                                   |  |  |                      |
|                                     |  | Recreation bridge   | n/a                          | Railing repairs                | n/a                               | Railing upgrades 2013/2014             | Local landfill site                                    | n/a                  |
|                                     |  | Health and safety issues  | n/a                          | Signage                        | n/a                               | Abutment repairs 2013/2014             | Any steel / metal recycle through local landfill sites | n/a                  |
|                                     |  |   |                              | Abutment repairs               |                                   |  |  |                      |
| Victoria Lake Road Bridge (culvert) | 5  |   |                              |                                |                                   |  |  |                      |
|                                     |  | Few residents on other side   | n/a                          | Culvert replacement            | n/a                               | Replacement of culvert - proposed 2014 | Local landfill site                                    | n/a                  |
|                                     |  | Residents could be trapped and unable to get in or out (EMT/ FIRE unable to access) | n/a                          | n/a                            | n/a                               | n/a                                    | Any steel / metal recycle through local landfill sites |                      |
|                                     |  | Health and safety issues  |                              |                                |                                   |  |  |                      |

**Table 5c**  
**Risk Assessment and Management Strategy - Solid Waste**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset   | Risk Factor   | Risk Elements and Proposed Actions | Planned Actions                          |   |   |                                       |                     |  |
|---|---|------------------------------------|--|---|---|---------------------------------------|---------------------|--|
|   | 1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High |                                    | Non-Infrastructure Solutions             | Maintenance Activities                  | Renewal/Rehabilitation Activities       | Replacement Activities                | Disposal Activities | Expansion Activities                           |
| Airy Waste Disposal Site                            | 3   | Public safety                      | Training / public education              | Signage / hazard removal                | Signage / secured storage               | n/a                                   | n/a                 | Public education                               |
|   |   | Noise                              | Modification of operation hours          | n/a                                     | n/a                                     | n/a                                   | n/a                 | Modification of operation hours                |
|   |   | Dust                               | Speed limit reduction                    | Watering / calcium treatment            | Watering / calcium treatment            | Pave site roads                       | n/a                 | Pave roads                                     |
|   |   | Vector / vermin                    | Improvements to noise diversion          | Pest control / cover application        | Cover application                       | Bear fencing                          | n/a                 | Cover application                              |
|   |   | Fire                               | Training                                 | Fire extinguisher / on-site water truck | Fire extinguisher / on-site water truck | n/a                                   | n/a                 | On-site fire control system                    |
|   |   | Spills                             | Training                                 | Spill catamite measure                  | Contaminant areas                       | Contaminant areas / cover application | n/a                 | Containment areas                              |
|   |   | Litter                             | Regular cleanup schedule                 | Regular cleanup schedule                | Litter control fencing                  | n/a                                   | n/a                 | Litter control fencing / cover application     |
|   |   | Environmental                      | Annual monitoring (ground/surface water) | Cover application / surveying           | Progressive closure                     | n/a                                   | n/a                 | Contaminant attenuation zone lands acquisition |
|   |   | Site Closure                       | Site expansion planning                  | n/a                                     | Site expansion                          | Site expansion                        | n/a                 | Site expansion                                 |
| Madawaska (Murchison and Lyell Waste Disposal Site) | 4   | Public safety                      | Training / public education              | Signage / hazard removal                | Signage / secured storage               | n/a                                   | n/a                 | Public education                               |
|   |   | Noise                              | Modification of operation hours          | n/a                                     | n/a                                     | n/a                                   | n/a                 | Modification of operation hours                |
|   |   | Dust                               | Speed limit reduction                    | Watering / calcium treatment            | Watering / calcium treatment            | Pave site roads                       | n/a                 | Pave roads                                     |
|   |   | Vector / vermin                    | Improvements to noise diversion          | Pest control / cover application        | Cover application                       | Bear fencing                          | n/a                 | Cover application                              |
|   |   | Fire                               | Training                                 | Fire extinguisher / on-site water truck | Fire extinguisher / on-site water truck | n/a                                   | n/a                 | On-site fire control system                    |
|   |   | Spills                             | Training                                 | Spill catamite measure                  | Contaminant areas                       | Contaminant areas / cover application | n/a                 | Containment areas                              |
|   |   | Litter                             | Regular cleanup schedule                 | Regular cleanup schedule                | Litter control fencing                  | n/a                                   | n/a                 | Litter control fencing / cover application     |
|   |   | Environmental                      | Annual monitoring (ground/surface water) | Cover application / surveying           | Progressive closure                     | n/a                                   | n/a                 | Contaminant attenuation zone lands acquisition |
|   |   | Site Closure                       | Site expansion planning                  | n/a                                     | Site expansion                          | Site expansion                        | n/a                 | Site expansion                                 |

**Table 5d**  
**Risk Assessment and Management Strategy - Buildings**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset                                     | Risk Factor   | Risk Elements   | Planned Actions                |                                |   |  |  |  |
|---|---|---|--------------------------------|--------------------------------|---|--|--|--|
|   | 1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High |   | Non-Infrastructure Solutions   | Maintenance Activities         | Renewal/Rehabilitation Activities           | Replacement Activities                           | Disposal Activities                          | Expansion Activities   |
| Building<br>(General Government Services) | 5   | Structural  | Inspection / review / training | Cleaning / drainage evaluation | Insulation / upgrade supports / eavestrough | Replace roof / underpinning / structural support | Dispose at Waste Disposal Site               | Additions / renovations  |
|   |   | Mechanical  | Inspection / review / training | Cleaning                       | Upgraded heating / cooling                  | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Electrical  | Inspection / review / training | Inspection                     | General upgrades                            | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Safety  | Training                       | Training                       | Training                                    | Update Training                                  | n/a  | n/a  |
|   |   | Main office: if not available, production would come to halt. Payment, road emergencies, etc. | n/a                            | General maintenance            | General upgrades                            | Purchase new office building                     | Disposal / recycle                           | Future expansion of garage if Madawaska Garage lease is terminated through MTO |
| Building<br>(Protective Services)         | 5   | Structural  | Inspection / review / training | Cleaning / drainage evaluation | Insulation / upgrade supports / eavestrough | Replace roof / underpinning / structural support | Dispose at Waste Disposal Site               | Additions / renovations  |
|   |   | Mechanical  | Inspection / review / training | Cleaning                       | Upgraded heating / cooling                  | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Electrical  | Inspection / review / training | Inspection                     | General upgrades                            | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Safety  | Training                       | Training                       | Training                                    | Update Training                                  | n/a  | n/a  |
|   |   |   |                                |                                |   |  |  |  |
| Building<br>(Environmental Services)      | 4   | Structural  | Inspection / review / training | Cleaning / drainage evaluation | Insulation / upgrade supports / roofing     | Replace roof / Upgrades to structural support    | Dispose at Waste Disposal Site               | Additions / renovations  |
|   |   | Mechanical  | Inspection / review / training | Cleaning                       | Upgraded heating / cooling                  | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Electrical  | Inspection / review / training | Inspection                     | Upgrade                                     | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Safety  | Training                       | Training                       | Training                                    | Update Training                                  | n/a  | n/a  |
|   |   | Hazardous Materials   | Training / review / inspection | Proper storage                 | Secure storage                              | Use less hazardous materials or alternatives     | Recycle at hazardous waste event days (MHSW) | Secured storage  |
| Building<br>(Recreational Services)       | 3   | Structural  | Inspection / review / training | Cleaning / drainage evaluation | Insulation / upgrade supports / eavestrough | Replace roof / underpinning / structural support | Dispose at Waste Disposal Site               | Additions / renovations  |
|   |   | Mechanical  | Inspection / review / training | Cleaning                       | Upgraded heating / cooling                  | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Electrical  | Inspection / review / training | Inspection                     | General upgrades                            | Replace with new technology                      | Recycle                                      | Additions / upgrades   |
|   |   | Safety  | Training                       | Training                       | Training                                    | Update Training                                  | n/a  | n/a  |
|   |   | Equipment repairs   | Inspection / review / training | Maintenance Activities         | Maintenance Activities                      | Rebuild  | Recycle                                      | Roof over out door rink (Whitney Lester Smith)                                 |
|   |   | Recreation for community  | Education / signage            | Purchase generators            | n/a   | Replacement Activities                           | n/a  |  |

**Table 5e**  
**Risk Assessment and Management Strategy - Land Improvements**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset  | Risk Factor   | Risk Elements                           | Planned Actions                           |                                |                                   |                              |                                |                         |
|--|---|---|---|--------------------------------|-----------------------------------|------------------------------|--------------------------------|-------------------------|
|  | 1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High |   | Non-Infrastructure Solutions              | Maintenance Activities         | Renewal/Rehabilitation Activities | Replacement Activities       | Disposal Activities            | Expansion Activities    |
| Land Improvements (General Government Services)        | 2   | Winter road conditions / severe weather | Monitor weather forecast                  | Sanding / salt / plowing       | Grading                           | n/a                          | n/a                            | n/a                     |
|  |   | Washboards / potholes                   | Speed limit reduction / load restrictions | Grading / pavement maintenance | New gravel / pavement maintenance | Replacement Activities       | n/a                            | n/a                     |
|  |   | Drainage                                | n/a                                       | Ditching / grading / culverts  | Additional gravel / ditching      | Additional gravel / ditching | n/a                            | Ditching / culverts     |
|  |   |   |   |                                |                                   |                              |                                |                         |
|  |   |   |   |                                |                                   |                              |                                |                         |
| Land Improvements (Recreational and Cultural Services) | 3   | Structural                              | Inspection / review / training            | Cleaning / drainage evaluation | Upgrades                          | Replacement Activities       | Dispose at Waste Disposal Site | Additions / renovations |
|  |   | Safety                                  | Training                                  | Training                       | Training                          | Update Training              | n/a                            | n/a                     |
|  |   |   |   |                                |                                   |                              |                                |                         |
|  |   |   |   |                                |                                   |                              |                                |                         |
|  |   |   |   |                                |                                   |                              |                                |                         |

Table 5f  
Risk Assessment and Management Strategy - Vehicles and Equipment  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset  | Risk Factor   | Risk Elements                  | Planned Actions              |   |                                   |                            |                     |                      |
|--|---|--------------------------------|------------------------------|---|-----------------------------------|----------------------------|---------------------|----------------------|
|  | 1. Very Low 2. Low<br>3. Medium 4. High<br>5. Very High |                                | Non-Infrastructure Solutions | Maintenance Activities                            | Renewal/Rehabilitation Activities | Replacement Activities     | Disposal Activities | Expansion Activities |
| Vehicles (Transportation Services)             | 4   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   |                                |                              |   |                                   |                            |                     |                      |
| Vehicles (Environmental Services)              | 3   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Leaks / spills                 | n/a                          | Repair as required                                | Rebuild / liquid retention system | Replace as required        | Recycle / sell      | n/a                  |
| Vehicles (Protection Services)                 | 5   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Challenging terrain            | Training                     | n/a   | Training                          | n/a                        | n/a                 | n/a                  |
| Equipment (Recreational and Cultural Services) | 3   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   |                                |                              |   |                                   |                            |                     |                      |
| Equipment (General Government)                 | 2   | Severe weather                 | n/a                          | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   |                                |                              |   |                                   |                            |                     |                      |
| Equipment (Transportation Services)            | 3   | Severe weather                 | n/a                          | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   |                                |                              |   |                                   |                            |                     |                      |
| Equipment (Protection Services)                | 5   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Challenging terrain            | Training                     | n/a   | Training                          | n/a                        | n/a                 | n/a                  |
| Equipment (Environmental Services)             | 3   | Severe weather                 | Monitoring forecast          | Snow tires / plows / sanding                      | n/a                               | Replace snow tires / truck | Recycle             | n/a                  |
|  |   | Breaks / failure / malfunction | Circle checks                | Regular maintenance schedule / annual inspections | Repair as required                | Replace as required        | Recycle / sell      | n/a                  |
|  |   | Accidents                      | Training                     | n/a   | n/a                               | n/a                        | n/a                 | n/a                  |
|  |   | Challenging terrain            | Training                     | n/a   | Training                          | n/a                        | n/a                 | n/a                  |

**Table 6a**  
**Financial Assessment and Projections - Roads**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>       | Operating Department <sup>1</sup> | Surface Type (Gravel/Earth/DST/LCB/SST/LCB/HCB/HC B-DST) <sup>2</sup> | Quantity (Length in km) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> | Maintenance Cost (10 Years) <sup>4</sup> | Replacement Cost (20 Years) <sup>4</sup> | Maintenance and Replacement Cost | Condition Rating (good / fair / poor) <sup>4</sup> | Level of Service (1 to 5) <sup>5</sup> | Proposed Annual Contribution to Reserves <sup>6</sup> |           |           |           |           |               |           |           |           |           |                |                |                |                |              |              | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>7</sup> | Difference (Borrowing - Savings) <sup>8</sup> |
|-----------------------|-------------------------------|-----------------------------------|---|--------------------------------------|------------------------------|--|---------------------------------------|-----------------------------------|----------------------------|--|--|----------------------------------|--|--|---|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|--------------|--------------|-------------------------|---|---------------------------------------|---|
|                       |                               |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |           |           |           |           | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |              |              |                         |   |                                       |   |
|                       |                               |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020      | 2021      | 2022      | 2023      | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |              |              |                         |   |                                       |   |
| RD10                  | Airy Road                     | Trans Services                    | DST   | 0.9                                  | 1999                         | 16   | 2015                                  | 2                                 | \$ 107,231                 | \$ 22,500                                | \$ 66,600                                | \$ 89,100                        | poor   | 5                                      | \$ 44,550   | \$ 44,550 |           |           |           |               |           |           |           |           |                |                | \$ 89,100      | \$ 89,100      | \$ 133,573   | \$ 44,473    |                         |   |                                       |   |
| RD410 & RD415         | Aylen Lake Road               | Trans Services                    | Gravel (DST for 2014)   | 8.5                                  | 1997                         | 16   | 2013                                  | 0                                 | \$ 637,746                 | \$ -                                     | \$ 1,309,275                             | \$ 1,309,275                     | poor   | 4                                      | \$ 1,309,275  |           |           |           |           |               |           |           |           |           |                |                | \$ 1,309,275   | \$ 1,309,275   | \$ 2,329,736 | \$ 1,020,461 |                         |   |                                       |   |
| RD400                 | Spectacle Lake Road           | Trans Services                    | DST   | 1.5                                  | 1988                         | 26   | 2014                                  | 1                                 | \$ 141,761                 | \$ 37,500                                | \$ 111,000                               | \$ 148,500                       | fair   | 4                                      | \$ 148,500  |           |           |           |           |               |           |           |           |           |                |                | \$ 148,500     | \$ 148,500     | \$ 273,499   | \$ 124,999   |                         |   |                                       |   |
| RD785                 | Pastwa Lake Road              | Trans Services                    | Earth   | 3.3                                  | 1990                         | 26   | 2016                                  | 3                                 | \$ 145,479                 | \$ 52,800                                | \$ 79,200                                | \$ 132,000                       | poor   | 6                                      | \$ 44,000   | \$ 44,000 | \$ 44,000 |           |           |               |           |           |           |           |                |                | \$ 132,000     | \$ 132,000     | \$ 243,111   | \$ 111,111   |                         |   |                                       |   |
| RD20                  | Airy Road                     | Trans Services                    | Gravel  | 0.3                                  | 2000                         | 15   | 2015                                  | 2                                 | \$ 26,567                  | \$ 4,800                                 | \$ 7,200                                 | \$ 12,000                        | fair   | 5                                      | \$ 6,000  | \$ 6,000  |           |           |           |               |           |           |           |           |                |                | \$ 12,000      | \$ 12,000      | \$ 16,099    | \$ 4,099     |                         |   |                                       |   |
| RD600                 | Tom and Mick Murray Park Road | Trans Services                    | Gravel  | 0.6                                  | 2001                         | 19   | 2020                                  | 7                                 | \$ 54,470                  | \$ 9,600                                 | \$ 14,400                                | \$ 24,000                        | good   | 6                                      | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429      | \$ 3,429  | \$ 3,429  |           |           |                |                | \$ 24,000      | \$ 24,000      | \$ 35,979    | \$ 11,979    |                         |   |                                       |   |
| RD430                 | Burnt Depot Road              | Trans Services                    | Gravel  | 0.5                                  | 1995                         | 25   | 2020                                  | 7                                 | \$ 40,657                  | \$ 8,000                                 | \$ 12,000                                | \$ 20,000                        | fair   | 6                                      | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857      | \$ 2,857  | \$ 2,857  |           |           |                |                | \$ 20,000      | \$ 20,000      | \$ 33,339    | \$ 13,339    |                         |   |                                       |   |
| RD120                 | Dave Bowers Road              | Trans Services                    | Gravel  | 0.1                                  | 1995                         | 20   | 2015                                  | 2                                 | \$ 8,131                   | \$ 1,600                                 | \$ 2,400                                 | \$ 4,000                         | good   | 6                                      | \$ 2,000  | \$ 2,000  |           |           |           |               |           |           |           |           |                |                | \$ 4,000       | \$ 4,000       | \$ 5,997     | \$ 1,997     |                         |   |                                       |   |
| RD510                 | Dunnes Road                   | Trans Services                    | Gravel  | 2.1                                  | 1988                         | 33   | 2021                                  | 8                                 | \$ 124,712                 | \$ 33,600                                | \$ 50,400                                | \$ 84,000                        | good   | 6                                      | \$ 10,500   | \$ 10,500 | \$ 10,500 | \$ 10,500 | \$ 10,500 | \$ 10,500     | \$ 10,500 | \$ 10,500 | \$ 10,500 |           |                |                | \$ 84,000      | \$ 84,000      | \$ 154,707   | \$ 70,707    |                         |   |                                       |   |
| RD420                 | Gaffney Road                  | Trans Services                    | Gravel  | 5.5                                  | 1997                         | 23   | 2020                                  | 7                                 | \$ 461,526                 | \$ 88,000                                | \$ 132,000                               | \$ 220,000                       | good   | 4                                      | \$ 31,429   | \$ 31,429 | \$ 31,429 | \$ 31,429 | \$ 31,429 | \$ 31,429     | \$ 31,429 | \$ 31,429 | \$ 31,429 |           |                |                | \$ 220,000     | \$ 220,000     | \$ 366,727   | \$ 146,727   |                         |   |                                       |   |
| RD110                 | Hay Creek Road                | Trans Services                    | Gravel  | 0.75                                 | 1992                         | 24   | 2016                                  | 3                                 | \$ 58,480                  | \$ 12,000                                | \$ 18,000                                | \$ 30,000                        | good   | 5                                      | \$ 10,000   | \$ 10,000 | \$ 10,000 |           |           |               |           |           |           |           |                |                | \$ 30,000      | \$ 30,000      | \$ 50,008    | \$ 20,008    |                         |   |                                       |   |
| RD720                 | Hayward Road                  | Trans Services                    | Gravel  | 1.6                                  | 1995                         | 25   | 2020                                  | 7                                 | \$ 130,104                 | \$ 25,600                                | \$ 38,400                                | \$ 64,000                        | fair   | 6                                      | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143      | \$ 9,143  | \$ 9,143  |           |           |                |                | \$ 64,000      | \$ 64,000      | \$ 106,684   | \$ 42,684    |                         |   |                                       |   |
| RD760                 | Henry Coghtlan Road           | Trans Services                    | Gravel  | 1.9                                  | 1999                         | 21   | 2020                                  | 7                                 | \$ 163,846                 | \$ 30,400                                | \$ 45,600                                | \$ 76,000                        | fair   | 6                                      | \$ 10,857   | \$ 10,857 | \$ 10,857 | \$ 10,857 | \$ 10,857 | \$ 10,857     | \$ 10,857 | \$ 10,857 |           |           |                |                | \$ 76,000      | \$ 76,000      | \$ 126,687   | \$ 50,687    |                         |   |                                       |   |
| RD240                 | Hilltop Cres.                 | Trans Services                    | Gravel  | 0.4                                  | 2002                         | 18   | 2020                                  | 7                                 | \$ 33,363                  | \$ 6,400                                 | \$ 9,600                                 | \$ 16,000                        | good   | 5                                      | \$ 2,286  | \$ 2,286  | \$ 2,286  | \$ 2,286  | \$ 2,286  | \$ 2,286      | \$ 2,286  | \$ 2,286  |           |           |                |                | \$ 16,000      | \$ 16,000      | \$ 23,986    | \$ 7,986     |                         |   |                                       |   |
| RD790                 | Kulack Road                   | Trans Services                    | Gravel  | 0.8                                  | 2002                         | 16   | 2018                                  | 5                                 | \$ 74,260                  | \$ 12,800                                | \$ 19,200                                | \$ 32,000                        | fair   | 6                                      | \$ 6,400  | \$ 6,400  | \$ 6,400  | \$ 6,400  | \$ 6,400  |               |           |           |           |           |                |                | \$ 32,000      | \$ 32,000      | \$ 47,972    | \$ 15,972    |                         |   |                                       |   |
| RD160                 | Lakeshore Drive               | Trans Services                    | Gravel  | 0.6                                  | 1996                         | 19   | 2015                                  | 2                                 | \$ 49,513                  | \$ 9,600                                 | \$ 14,400                                | \$ 24,000                        | fair   | 5                                      | \$ 12,000   | \$ 12,000 |           |           |           |               |           |           |           |           |                |                | \$ 24,000      | \$ 24,000      | \$ 35,979    | \$ 11,979    |                         |   |                                       |   |
| RD670                 | Lyell Lake Landing Road       | Trans Services                    | Gravel  | 0.4                                  | 2003                         | 11   | 2014                                  | 1                                 | \$ 38,170                  | \$ 6,400                                 | \$ 9,600                                 | \$ 16,000                        | fair   | 6                                      | \$ 16,000   |           |           |           |           |               |           |           |           |           |                |                | \$ 16,000      | \$ 16,000      | \$ 21,465    | \$ 5,465     |                         |   |                                       |   |
| RD710                 | Hay Lake Landing Road         | Trans Services                    | Gravel  | 1.1                                  | 1998                         | 22   | 2020                                  | 7                                 | \$ 93,224                  | \$ 17,600                                | \$ 26,400                                | \$ 44,000                        | good   | 4                                      | \$ 6,286  | \$ 6,286  | \$ 6,286  | \$ 6,286  | \$ 6,286  | \$ 6,286      | \$ 6,286  | \$ 6,286  |           |           |                |                | \$ 44,000      | \$ 44,000      | \$ 73,345    | \$ 29,345    |                         |   |                                       |   |
| RD310                 | Madawaska St.                 | Trans Services                    | Gravel  | 0.9                                  | 1988                         | 30   | 2018                                  | 5                                 | \$ 37,803                  | \$ 14,400                                | \$ 21,600                                | \$ 36,000                        | good   | 5                                      | \$ 7,200  | \$ 7,200  | \$ 7,200  | \$ 7,200  | \$ 7,200  |               |           |           |           |           |                |                | \$ 36,000      | \$ 36,000      | \$ 66,303    | \$ 30,303    |                         |   |                                       |   |
| RD640                 | McCaulley Lake Road           | Trans Services                    | Gravel  | 3.15                                 | 2000                         | 22   | 2022                                  | 9                                 | \$ 278,949                 | \$ 50,400                                | \$ 75,600                                | \$ 126,000                       | good   | 5                                      | \$ 14,000   | \$ 14,000 | \$ 14,000 | \$ 14,000 | \$ 14,000 | \$ 14,000     | \$ 14,000 | \$ 14,000 | \$ 14,000 | \$ 14,000 |                |                | \$ 126,000     | \$ 126,000     | \$ 210,034   | \$ 84,034    |                         |   |                                       |   |
| RD680                 | McGuey Road                   | Trans Services                    | Gravel  | 4.7                                  | 1999                         | 21   | 2020                                  | 7                                 | \$ 405,302                 | \$ 75,200                                | \$ 112,800                               | \$ 188,000                       | good   | 4                                      | \$ 26,857   | \$ 26,857 | \$ 26,857 | \$ 26,857 | \$ 26,857 | \$ 26,857     | \$ 26,857 | \$ 26,857 |           |           |                |                | \$ 188,000     | \$ 188,000     | \$ 313,385   | \$ 125,385   |                         |   |                                       |   |
| RD730                 | McKenzie Lake Road            | Trans Services                    | Gravel  | 8.7                                  | 1997                         | 23   | 2020                                  | 7                                 | \$ 730,051                 | \$ 139,200                               | \$ 208,800                               | \$ 348,000                       | good   | 5                                      | \$ 49,714   | \$ 49,714 | \$ 49,714 | \$ 49,714 | \$ 49,714 | \$ 49,714     | \$ 49,714 | \$ 49,714 |           |           |                |                | \$ 348,000     | \$ 348,000     | \$ 580,095   | \$ 232,095   |                         |   |                                       |   |
| RD440                 | Moonlight Bay Road            | Trans Services                    | Gravel  | 2.2                                  | 1997                         | 23   | 2020                                  | 7                                 | \$ 184,611                 | \$ 35,200                                | \$ 52,800                                | \$ 88,000                        | good   | 4                                      | \$ 12,571   | \$ 12,571 | \$ 12,571 | \$ 12,571 | \$ 12,571 | \$ 12,571     | \$ 12,571 | \$ 12,571 |           |           |                |                | \$ 88,000      | \$ 88,000      | \$ 146,691   | \$ 58,691    |                         |   |                                       |   |
| RD360                 | Nipissing Road                | Trans Services                    | Gravel  | 1.7                                  | 1997                         | 23   | 2020                                  | 7                                 | \$ 102,872                 | \$ 27,200                                | \$ 40,800                                | \$ 68,000                        | good   | 5                                      | \$ 9,714  | \$ 9,714  | \$ 9,714  | \$ 9,714  | \$ 9,714  | \$ 9,714      | \$ 9,714  | \$ 9,714  |           |           |                |                | \$ 68,000      | \$ 68,000      | \$ 113,352   | \$ 45,352    |                         |   |                                       |   |
| RD750                 | North McKenzie Lake Road      | Trans Services                    | Gravel  | 8.9                                  | 1998                         | 22   | 2020                                  | 7                                 | \$ 754,269                 | \$ 142,400                               | \$ 213,600                               | \$ 356,000                       | good   | 5                                      | \$ 50,857   | \$ 50,857 | \$ 50,857 | \$ 50,857 | \$ 50,857 | \$ 50,857     | \$ 50,857 | \$ 50,857 |           |           |                |                | \$ 356,000     | \$ 356,000     | \$ 593,430   | \$ 237,430   |                         |   |                                       |   |
| RD460                 | North Aylen Lake Road         | Trans Services                    | Gravel  | 7.6                                  | 1998                         | 22   | 2020                                  | 7                                 | \$ 644,095                 | \$ 121,600                               | \$ 182,400                               | \$ 304,000                       | good   | 5                                      | \$ 43,429   | \$ 43,429 | \$ 43,429 | \$ 43,429 | \$ 43,429 | \$ 43,429     | \$ 43,429 | \$ 43,429 |           |           |                |                | \$ 304,000     | \$ 304,000     | \$ 506,749   | \$ 202,749   |                         |   |                                       |   |
| RD700                 | McCrae-Hay Lake Road          | Trans Services                    | Gravel  | 2.6                                  | 1998                         | 22   | 2020                                  | 7                                 | \$ 220,348                 | \$ 41,600                                | \$ 62,400                                | \$ 104,000                       | fair   | 4                                      | \$ 14,857   | \$ 14,857 | \$ 14,857 | \$ 14,857 | \$ 14,857 | \$ 14,857     | \$ 14,857 | \$ 14,857 |           |           |                |                | \$ 104,000     | \$ 104,000     | \$ 173,362   | \$ 69,362    |                         |   |                                       |   |
| RD490                 | Old Farm Road                 | Trans Services                    | Gravel  | 0.7                                  | 1995                         | 45   | 2040                                  | 27                                | \$ 51,146                  | \$ 11,200                                | \$ 16,800                                | \$ 28,000                        | poor   | 6                                      | \$ 1,037  | \$ 1,037  | \$ 1,037  | \$ 1,037  | \$ 1,037  | \$ 1,037      | \$ 1,037  | \$ 1,037  | \$ 1,037  | \$ 1,037  | \$ 1,037       | \$ 5,185       | \$ 5,185       | \$ 5,185       | \$ 2,074     | \$ 28,000    | \$ 28,000               | \$ 51,569                                 | \$ 23,569                             |   |
| RD390 / RD395         | Old Highway 127               | Trans Services                    | Gravel  | 5.4                                  | 1995                         | 23   | 2018                                  | 5                                 | \$ 425,733                 | \$ 86,400                                | \$ 129,600                               | \$ 216,000                       | fair   | 4                                      | \$ 43,200   | \$ 43,200 | \$ 43,200 | \$ 43,200 | \$ 43,200 |               |           |           |           |           |                |                |                | \$ 216,000     | \$ 216,000   | \$ 360,059   | \$ 144,059              |   |                                       |   |
| RD500                 | Papinskie Road                | Trans Services                    | Gravel  | 2.1                                  | 1998                         | 22   | 2020                                  | 7                                 | \$ 177,974                 | \$ 33,600                                | \$ 50,400                                | \$ 84,000                        | good   | 4                                      | \$ 12,000   | \$ 12,000 | \$ 12,000 | \$ 12,000 | \$ 12,000 | \$ 12,000     | \$ 12,000 | \$ 12,000 |           |           |                |                | \$ 84,000      | \$ 84,000      | \$ 140,023   | \$ 56,023    |                         |   |                                       |   |
| RD780                 | Pastwa Lake Road              | Trans Services                    | Gravel  | 2.7                                  | 2001                         | 15   | 2016                                  | 3                                 | \$ 245,114                 | \$ 43,200                                | \$ 64,800                                | \$ 108,000                       | good   | 6                                      | \$ 36,000   | \$ 36,000 | \$ 36,000 |           |           |               |           |           |           |           |                |                | \$ 108,000     | \$ 108,000     | \$ 144,891   | \$ 36,891    |                         |   |                                       |   |
| RD470                 | Pringles Road                 | Trans Services                    | Gravel  | 1.8                                  | 1995                         | 25   | 2020                                  | 7                                 | \$ 131,518                 | \$ 28,800                                | \$ 43,200                                | \$ 72,000                        | good   | 6                                      | \$ 10,286   | \$ 10,286 | \$ 10,286 | \$ 10,286 | \$ 10,286 | \$ 10,286     | \$ 10,286 | \$ 10,286 |           |           |                |                | \$ 72,000      | \$ 72,000      | \$ 120,020   | \$ 48,020    |                         |   |                                       |   |
| RD770                 | Proven Line                   | Trans Services                    | Gravel  | 1.6                                  | 2004                         | 16   | 2020                                  | 7                                 | \$ 155,501                 | \$ 25,600                                | \$ 38,400                                | \$ 64,000                        | good   | 6                                      | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143  | \$ 9,143      | \$ 9,143  | \$ 9,143  |           |           |                |                | \$ 64,000      | \$ 64,000      | \$ 95,944    | \$ 31,944    |                         |   |                                       |   |

**Table 6a**  
**Financial Assessment and Projections - Roads**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup>             | Asset Name <sup>1</sup>  | Operating Department <sup>1</sup> | Surface Type (Gravel/Earth/DST/LCB-SST/LCB/HCB/HC B-DST) <sup>2</sup> | Quantity (Length in km) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> | Maintenance Cost (10 Years) <sup>4</sup> | Replacement Cost (20 Years) <sup>4</sup> | Maintenance and Replacement Cost | Condition Rating (good / fair / poor) <sup>4</sup> | Level of Service (1 to 5) <sup>5</sup> | Proposed Annual Contribution to Reserves <sup>6</sup> |           |           |           |           |               |           |           |          |          |                |                |                |                |            |            | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>7</sup> | Difference (Borrowing - Savings) <sup>8</sup> |
|-----------------------------------|--------------------------|-----------------------------------|---|--------------------------------------|------------------------------|--|---------------------------------------|-----------------------------------|----------------------------|--|--|----------------------------------|--|--|---|-----------|-----------|-----------|-----------|---------------|-----------|-----------|----------|----------|----------------|----------------|----------------|----------------|------------|------------|-------------------------|---|---------------------------------------|---|
|                                   |                          |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |           |           |          |          | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |            |            |                         |   |                                       |   |
|                                   |                          |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020      | 2021      | 2022     | 2023     | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |            |            |                         |   |                                       |   |
| RD660                             | Reid's Road              | Trans Services                    | Gravel  | 0.1                                  | 2002                         | 23   | 2025                                  | 12                                | \$ 9,283                   | \$ 1,600                                 | \$ 2,400                                 | \$ 4,000                         | good   | 6                                      | \$ 333  | \$ 333    | \$ 333    | \$ 333    | \$ 333    | \$ 333        | \$ 333    | \$ 333    | \$ 667   |          |                |                | \$ 4,000       | \$ 4,000       | \$ 6,668   | \$ 2,668   |                         |   |                                       |   |
| RD480                             | Shields Road             | Trans Services                    | Gravel  | 0.3                                  | 1995                         | 45   | 2040                                  | 27                                | \$ 21,920                  | \$ 4,800                                 | \$ 7,200                                 | \$ 12,000                        | poor   | 6                                      | \$ 444  | \$ 444    | \$ 444    | \$ 444    | \$ 444    | \$ 444        | \$ 444    | \$ 444    | \$ 444   | \$ 2,222 | \$ 2,222       | \$ 2,222       | \$ 889         | \$ 12,000      | \$ 12,000  | \$ 22,101  | \$ 10,101               |   |                                       |   |
| RD740                             | South McKenzie Lake Road | Trans Services                    | Gravel  | 2.6                                  | 1995                         | 25   | 2020                                  | 7                                 | \$ 211,418                 | \$ 41,600                                | \$ 62,400                                | \$ 104,000                       | good   | 6                                      | \$ 14,857   | \$ 14,857 | \$ 14,857 | \$ 14,857 | \$ 14,857 | \$ 14,857     | \$ 14,857 | \$ 14,857 |          |          |                |                | \$ 104,000     | \$ 104,000     | \$ 173,362 | \$ 69,362  |                         |   |                                       |   |
| RD50                              | Sunset Trail             | Trans Services                    | Gravel  | 0.6                                  | 2004                         | 16   | 2020                                  | 7                                 | \$ 58,313                  | \$ 9,600                                 | \$ 14,400                                | \$ 24,000                        | good   | 6                                      | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429  | \$ 3,429      | \$ 3,429  | \$ 3,429  |          |          |                |                | \$ 24,000      | \$ 24,000      | \$ 35,979  | \$ 11,979  |                         |   |                                       |   |
| RD630                             | Victoria Lake Road       | Trans Services                    | Gravel  | 6.3                                  | 2000                         | 20   | 2020                                  | 7                                 | \$ 557,897                 | \$ 100,800                               | \$ 151,200                               | \$ 252,000                       | good   | 6                                      | \$ 36,000   | \$ 36,000 | \$ 36,000 | \$ 36,000 | \$ 36,000 | \$ 36,000     | \$ 36,000 | \$ 36,000 |          |          |                |                | \$ 252,000     | \$ 252,000     | \$ 377,781 | \$ 125,781 |                         |   |                                       |   |
| RD450                             | Whites Road              | Trans Services                    | Gravel  | 0.7                                  | 1999                         | 21   | 2020                                  | 7                                 | \$ 60,364                  | \$ 11,200                                | \$ 16,800                                | \$ 28,000                        | good   | 5                                      | \$ 4,000  | \$ 4,000  | \$ 4,000  | \$ 4,000  | \$ 4,000  | \$ 4,000      | \$ 4,000  | \$ 4,000  |          |          |                |                | \$ 28,000      | \$ 28,000      | \$ 46,674  | \$ 18,674  |                         |   |                                       |   |
| RD80                              | Galeairy Lake Cres.      | Trans Services                    | Gravel  | 0.1                                  | 1995                         | 23   | 2018                                  | 5                                 | \$ 10,449                  | \$ 1,600                                 | \$ 2,400                                 | \$ 4,000                         | good   | 6                                      | \$ 800  | \$ 800    | \$ 800    | \$ 800    | \$ 800    | \$ 800        | \$ 800    | \$ 800    |          |          |                |                | \$ 4,000       | \$ 4,000       | \$ 6,668   | \$ 2,668   |                         |   |                                       |   |
| RD250                             | Church Hill St.          | Trans Services                    | Gravel  | 0.3                                  | 1990                         | 30   | 2020                                  | 7                                 | \$ 12,266                  | \$ 4,800                                 | \$ 7,200                                 | \$ 12,000                        | good   | 5                                      | \$ 1,714  | \$ 1,714  | \$ 1,714  | \$ 1,714  | \$ 1,714  | \$ 1,714      | \$ 1,714  | \$ 1,714  |          |          |                |                | \$ 12,000      | \$ 12,000      | \$ 22,101  | \$ 10,101  |                         |   |                                       |   |
| RD140-3                           | Lake St.                 | Trans Services                    | Gravel  | 0.15                                 | 2007                         | 11   | 2018                                  | 5                                 | \$ 7,884                   | \$ 2,400                                 | \$ 3,600                                 | \$ 6,000                         | good   | 5                                      | \$ 1,200  | \$ 1,200  | \$ 1,200  | \$ 1,200  | \$ 1,200  | \$ 1,200      | \$ 1,200  | \$ 1,200  |          |          |                |                | \$ 6,000       | \$ 6,000       | \$ 8,049   | \$ 2,049   |                         |   |                                       |   |
| RD230                             | Paradise Road            | Trans Services                    | Gravel  | 1.3                                  | 1994                         | 26   | 2020                                  | 7                                 | \$ 132,893                 | \$ 20,800                                | \$ 31,200                                | \$ 52,000                        | fair   | 5                                      | \$ 7,429  | \$ 7,429  | \$ 7,429  | \$ 7,429  | \$ 7,429  | \$ 7,429      | \$ 7,429  | \$ 7,429  |          |          |                |                | \$ 52,000      | \$ 52,000      | \$ 95,771  | \$ 43,771  |                         |   |                                       |   |
| RD150                             | Boat Launch Road         | Trans Services                    | HCB   | 0.1                                  | 1992                         | 38   | 2030                                  | 17                                | \$ 16,083                  | \$ 1,000                                 | \$ 13,900                                | \$ 14,900                        | good   | 5                                      | \$ 876  | \$ 876    | \$ 876    | \$ 876    | \$ 876    | \$ 876        | \$ 876    | \$ 876    | \$ 876   | \$ 876   | \$ 876         | \$ 876         | \$ 876         | \$ 876         | \$ 876     | \$ 876     | \$ 876                  | \$ 876                                    | \$ 876                                |   |
| RD350                             | Algonquin Cres.          | Trans Services                    | HCB   | 0.4                                  | 2013                         | 30   | 2043                                  | 30                                | \$ 43,962                  | \$ 12,000                                | \$ 55,600                                | \$ 67,600                        | good   | 5                                      | \$ 2,253  | \$ 2,253  | \$ 2,253  | \$ 2,253  | \$ 2,253  | \$ 2,253      | \$ 2,253  | \$ 2,253  | \$ 2,253 | \$ 2,253 | \$ 2,253       | \$ 2,253       | \$ 2,253       | \$ 2,253       | \$ 2,253   | \$ 2,253   | \$ 2,253                | \$ 2,253                                  |                                       |   |
| RD60                              | Birch Cres.              | Trans Services                    | HCB   | 0.15                                 | 2013                         | 30   | 2043                                  | 30                                | \$ 15,892                  | \$ 4,500                                 | \$ 20,850                                | \$ 25,350                        | good   | 6                                      | \$ 845  | \$ 845    | \$ 845    | \$ 845    | \$ 845    | \$ 845        | \$ 845    | \$ 845    | \$ 845   | \$ 845   | \$ 845         | \$ 845         | \$ 845         | \$ 845         | \$ 845     | \$ 845     | \$ 845                  | \$ 845                                    |                                       |   |
| RD70                              | Hemlock Cres.            | Trans Services                    | HCB   | 0.15                                 | 2013                         | 30   | 2043                                  | 30                                | \$ 15,595                  | \$ 4,500                                 | \$ 20,850                                | \$ 25,350                        | good   | 6                                      | \$ 845  | \$ 845    | \$ 845    | \$ 845    | \$ 845    | \$ 845        | \$ 845    | \$ 845    | \$ 845   | \$ 845   | \$ 845         | \$ 845         | \$ 845         | \$ 845         | \$ 845     | \$ 845     | \$ 845                  | \$ 845                                    |                                       |   |
| RD40                              | Maple Drive              | Trans Services                    | HCB   | 0.85                                 | 2013                         | 30   | 2043                                  | 30                                | \$ 97,975                  | \$ 25,500                                | \$ 118,150                               | \$ 143,650                       | good   | 5                                      | \$ 4,788  | \$ 4,788  | \$ 4,788  | \$ 4,788  | \$ 4,788  | \$ 4,788      | \$ 4,788  | \$ 4,788  | \$ 4,788 | \$ 4,788 | \$ 4,788       | \$ 4,788       | \$ 4,788       | \$ 4,788       | \$ 4,788   | \$ 4,788   | \$ 4,788                | \$ 4,788                                  |                                       |   |
| RD590                             | Fire Route - Pump House  | Trans Services                    | HCB   | 0.15                                 | 2005                         | 30   | 2035                                  | 22                                | \$ 14,898                  | \$ 2,000                                 | \$ 20,850                                | \$ 22,850                        | good   | 5                                      | \$ 1,039  | \$ 1,039  | \$ 1,039  | \$ 1,039  | \$ 1,039  | \$ 1,039      | \$ 1,039  | \$ 1,039  | \$ 1,039 | \$ 1,039 | \$ 1,039       | \$ 1,039       | \$ 1,039       | \$ 1,039       | \$ 1,039   | \$ 1,039   | \$ 1,039                | \$ 1,039                                  |                                       |   |
| RD90                              | Fire Route - Dam         | Trans Services                    | HCB   | 0.1                                  | 1998                         | 27   | 2025                                  | 12                                | \$ 10,678                  | \$ 20,000                                | \$ 13,900                                | \$ 33,900                        | good   | 6                                      | \$ 2,825  | \$ 2,825  | \$ 2,825  | \$ 2,825  | \$ 2,825  | \$ 2,825      | \$ 2,825  | \$ 2,825  | \$ 2,825 | \$ 2,825 | \$ 2,825       | \$ 2,825       | \$ 2,825       | \$ 2,825       | \$ 2,825   | \$ 2,825   | \$ 2,825                | \$ 2,825                                  |                                       |   |
| RD170                             | First Ave.               | Trans Services                    | HCB   | 0.2                                  | 1990                         | 27   | 2017                                  | 4                                 | \$ 18,338                  | \$ 3,750                                 | \$ 27,800                                | \$ 31,550                        | poor   | 5                                      | \$ 7,888  | \$ 7,888  | \$ 7,888  | \$ 7,888  | \$ 7,888  | \$ 7,888      | \$ 7,888  | \$ 7,888  |          |          |                |                | \$ 31,550      | \$ 31,550      | \$ 58,107  | \$ 26,557  |                         |   |                                       |   |
| RD255                             | Church Hill St.          | Trans Services                    | HCB   | 0.35                                 | 1992                         | 28   | 2020                                  | 7                                 | \$ 32,856                  | \$ 5,000                                 | \$ 48,650                                | \$ 53,650                        | fair   | 5                                      | \$ 7,664  | \$ 7,664  | \$ 7,664  | \$ 7,664  | \$ 7,664  | \$ 7,664      | \$ 7,664  | \$ 7,664  |          |          |                |                | \$ 53,650      | \$ 53,650      | \$ 98,810  | \$ 45,160  |                         |   |                                       |   |
| RD140-2                           | Lake St.                 | Trans Services                    | HCB   | 0.45                                 | 2010                         | 30   | 2040                                  | 27                                | \$ 551,851                 | \$ 5,000                                 | \$ 62,550                                | \$ 67,550                        | good   | 5                                      | \$ 2,502  | \$ 2,502  | \$ 2,502  | \$ 2,502  | \$ 2,502  | \$ 2,502      | \$ 2,502  | \$ 2,502  | \$ 2,502 | \$ 2,502 | \$ 2,502       | \$ 2,502       | \$ 2,502       | \$ 2,502       | \$ 2,502   | \$ 2,502   | \$ 2,502                |   |                                       |   |
| RD200                             | Mill St.                 | Trans Services                    | HCB   | 0.2                                  | 1988                         | 30   | 2018                                  | 5                                 | \$ 16,654                  | \$ 10,000                                | \$ 75,000                                | \$ 85,000                        | poor   | 5                                      | \$ 17,000   | \$ 17,000 | \$ 17,000 | \$ 17,000 | \$ 17,000 | \$ 17,000     | \$ 17,000 | \$ 17,000 |          |          |                |                | \$ 85,000      | \$ 85,000      | \$ 156,548 | \$ 71,548  |                         |   |                                       |   |
| RD180                             | Second Ave.              | Trans Services                    | HCB   | 0.2                                  | 1997                         | 21   | 2018                                  | 5                                 | \$ 21,145                  | \$ 5,000                                 | \$ 27,800                                | \$ 32,800                        | fair   | 5                                      | \$ 6,560  | \$ 6,560  | \$ 6,560  | \$ 6,560  | \$ 6,560  | \$ 6,560      | \$ 6,560  | \$ 6,560  |          |          |                |                | \$ 32,800      | \$ 32,800      | \$ 54,676  | \$ 21,876  |                         |   |                                       |   |
| RD190                             | Third Ave.               | Trans Services                    | HCB   | 0.15                                 | 1988                         | 32   | 2020                                  | 7                                 | \$ 12,490                  | \$ 10,000                                | \$ 20,850                                | \$ 30,850                        | good   | 5                                      | \$ 4,407  | \$ 4,407  | \$ 4,407  | \$ 4,407  | \$ 4,407  | \$ 4,407      | \$ 4,407  | \$ 4,407  |          |          |                |                | \$ 30,850      | \$ 30,850      | \$ 56,818  | \$ 25,968  |                         |   |                                       |   |
| RD270                             | Church Hill St.          | Trans Services                    | HCB   | 0.1                                  | 1999                         | 20   | 2019                                  | 6                                 | \$ 32,954                  | \$ 9,600                                 | \$ 13,900                                | \$ 23,500                        | fair   | 5                                      | \$ 3,917  | \$ 3,917  | \$ 3,917  | \$ 3,917  | \$ 3,917  | \$ 3,917      | \$ 3,917  | \$ 3,917  |          |          |                |                | \$ 23,500      | \$ 23,500      | \$ 35,230  | \$ 11,730  |                         |   |                                       |   |
| RD130 / RD280-2 / RD280-3 / RD210 | Ottawa St.               | Trans Services                    | HCB   | 0.65                                 | 2010                         | 30   | 2040                                  | 27                                | \$ 1,003,107               | \$ 19,500                                | \$ 90,350                                | \$ 109,850                       | good   | 5                                      | \$ 4,069  | \$ 4,069  | \$ 4,069  | \$ 4,069  | \$ 4,069  | \$ 4,069      | \$ 4,069  | \$ 4,069  | \$ 4,069 | \$ 4,069 | \$ 4,069       | \$ 4,069       | \$ 4,069       | \$ 4,069       | \$ 4,069   | \$ 4,069   | \$ 4,069                | \$ 4,069                                  |                                       |   |
| RD295                             | Post St.                 | Trans Services                    | HCB   | 0.4                                  | 2009                         | 31   | 2040                                  | 27                                | \$ 600,000                 | \$ 20,000                                | \$ 55,600                                | \$ 75,600                        | good   | 4                                      | \$ 2,800  | \$ 2,800  | \$ 2,800  | \$ 2,800  | \$ 2,800  | \$ 2,800      | \$ 2,800  | \$ 2,800  | \$ 2,800 | \$ 2,800 | \$ 2,800       | \$ 2,800       | \$ 2,800       | \$ 2,800       | \$ 2,800   | \$ 2,800   | \$ 2,800                | \$ 2,800                                  |                                       |   |
| RD320                             | Madawaska Ave.           | Trans Services                    | HCB   | 0.5                                  | 2009                         | 30   | 2039                                  | 26                                | \$ 62,378                  | \$ 12,500                                | \$ 47,000                                | \$ 59,500                        | good   | 5                                      | \$ 2,288  | \$ 2,288  | \$ 2,288  | \$ 2,288  | \$ 2,288  | \$ 2,288      | \$ 2,288  | \$ 2,288  | \$ 2,288 | \$ 2,288 | \$ 2,288       | \$ 2,288       | \$ 2,288       | \$ 2,288       | \$ 2,288   | \$ 2,288   | \$ 2,288                | \$ 2,288                                  |                                       |   |
| RD100                             | Hay Creek Road           | Trans Services                    | HCB-DST   | 1.25                                 | 2005                         | 11   | 2016                                  | 3                                 | \$ 156,422                 | \$ 31,250                                | \$ 92,500                                | \$ 123,750                       | good   | 5                                      | \$ 41,250   | \$ 41,250 | \$ 41,250 | \$ 41,250 | \$ 41,250 | \$ 41,250     | \$ 41,250 | \$ 41,250 |          |          |                |                | \$ 123,750     | \$ 123,750     | \$ 166,021 | \$ 42,271  |                         |   |                                       |   |
| RD340                             | Algonquin St.            | Trans Services                    | LCB   | 0.85                                 | 1992                         | 24   | 2016                                  | 3                                 | \$ 94,773                  | \$ 21,250                                | \$ 79,900                                | \$ 101,150                       | poor   | 5                                      | \$ 33,717   | \$ 33,717 | \$ 33,717 | \$ 33,717 | \$ 33,717 | \$ 33,717     | \$ 33,717 | \$ 33,717 |          |          |                |                | \$ 101,150     | \$ 101,150     | \$ 168,611 | \$ 67,461  |                         |   |                                       |   |
| RD330                             | Madawaska St.            | Trans Services                    | LCB   | 0.1                                  | 1991                         | 26   | 2017                                  | 4                                 | \$ 10,990                  | \$ 2,500                                 | \$ 9,400                                 | \$ 11,900                        | poor   | 5                                      | \$ 2,975  | \$ 2,975  | \$ 2,975  | \$ 2,975  | \$ 2,975  | \$ 2,975      | \$ 2,975  | \$ 2,975  |          |          |                |                | \$ 11,900      | \$ 11,900      | \$ 21,917  | \$ 10,017  |                         |   |                                       |   |
| RD30                              | Galeairy Lake Road       | Trans Services                    | LCB   | 0.7                                  | 1996                         | 19   | 2015                                  | 2                                 | \$ 72,778                  | \$ 17,500                                | \$ 65,800                                | \$ 83,300                        | fair   | 5                                      | \$ 41,650   | \$ 41,650 | \$ 41,650 | \$ 41,650 | \$ 41,650 | \$ 41,650     | \$ 41,650 | \$ 41,650 |          |          |                |                | \$ 83,300      | \$ 83,300      | \$ 124,878 | \$ 41,578  |                         |   |                                       |   |
| RD290                             | Post St.                 | Trans Services                    | LCB   | 0.2                                  | 1998                         | 19   | 2017                                  | 4                                 | \$ 34,303                  | \$ 5,000                                 | \$ 18,800                                | \$ 23,800                        | fair   | 5                                      | \$ 5,950  | \$ 5,950  | \$ 5,950  | \$ 5,950  | \$ 5,950  | \$ 5,950      | \$ 5,950  | \$ 5,950  |          |          |                |                | \$ 23,800      | \$ 23,800      | \$ 35,679  | \$ 11,879  |                         |   |                                       |   |
| RD300                             | Medical Centre Road      | Trans Services                    | LCB   | 0.3                                  | 2000                         | 20   | 2020                                  | 7                                 | \$ 65,105                  | \$ 7,500                                 | \$ 28,200                                | \$ 35,700                        | good   | 5                                      | \$ 5,100  | \$ 5,100  | \$ 5,100  | \$ 5,100  | \$ 5,100  | \$ 5,100      | \$ 5,100  | \$ 5,100  |          |          |                |                | \$ 35,700      | \$ 35,700      | \$ 53,519  | \$ 17,819  |                         |   |                                       |   |

**Table 6a**  
**Financial Assessment and Projections - Roads**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup> | Operating Department <sup>1</sup> | Surface Type (Gravel/Earth/DST/ LCB- SST/LCB/HCB/HC B-DST) <sup>2</sup> | Quantity (Length in km) <sup>2</sup> | Year in Service <sup>3</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> | Maintenance Cost (10 Years) <sup>4</sup> | Replacement Cost (20 Years) <sup>4</sup> | Maintenance and Replacement Cost | Condition Rating (good / fair / poor) <sup>4</sup> | Level of Service (1 to 5) <sup>5</sup> | Proposed Annual Contribution to Reserves <sup>6</sup> |              |            |            |            |               |            |            |            |            |                |                | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>7</sup> | Difference (Borrowing - Savings) <sup>8</sup> |                |                |
|-----------------------|-------------------------|-----------------------------------|---|--------------------------------------|------------------------------|--|---------------------------------------|-----------------------------------|----------------------------|--|--|----------------------------------|--|--|---|--------------|------------|------------|------------|---------------|------------|------------|------------|------------|----------------|----------------|-------------------------|---|---------------------------------------|---|----------------|----------------|
|                       |                         |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | Years 1 to 5  |              |            |            |            | Years 6 to 10 |            |            |            |            | Years 11 to 15 | Years 16 to 20 |                         |   |                                       |   | Years 21 to 25 | Years 26 to 30 |
|                       |                         |                                   |   |                                      |                              |  |                                       |                                   |                            |  |  |                                  |  |  | 2014  | 2015         | 2016       | 2017       | 2018       | 2019          | 2020       | 2021       | 2022       | 2023       | 2024 to 2028   | 2029 to 2033   |                         |   |                                       |   | 2034 to 2038   | 2038 to 2042   |
| RD380                 | Nipissing Road          | Trans Services                    | LCB   | 0.6                                  | 1995                         | 30   | 2025                                  | 12                                | \$ 138,235                 | \$ 15,000                                | \$ 56,400                                | \$ 71,400                        | good   | 5                                      | \$ 5,950  | \$ 5,950     | \$ 5,950   | \$ 5,950   | \$ 5,950   | \$ 5,950      | \$ 5,950   | \$ 5,950   | \$ 5,950   | \$ 5,950   | \$ 11,900      |                |                         |   | \$ 71,400                             | \$ 71,400                                     | \$ 131,501     | \$ 60,101      |
| RD260                 | Park St.                | Trans Services                    | LCB   | 0.25                                 | 2000                         | 18   | 2018                                  | 5                                 | \$ 55,972                  | \$ 6,250                                 | \$ 23,500                                | \$ 29,750                        | fair   | 5                                      | \$ 5,950  | \$ 5,950     | \$ 5,950   | \$ 5,950   | \$ 5,950   |               |            |            |            |            |                |                |                         |   | \$ 29,750                             | \$ 29,750                                     | \$ 44,599      | \$ 14,849      |
| RD690                 | McCrae-Hay Lake Road    | Trans Services                    | LCB-SST   | 4.7                                  | 1999                         | 21   | 2020                                  | 7                                 | \$ 769,632                 | \$ 117,500                               | \$ 441,800                               | \$ 559,300                       | good   | 4                                      | \$ 79,900   | \$ 79,900    | \$ 79,900  | \$ 79,900  | \$ 79,900  | \$ 79,900     | \$ 79,900  |            |            |            |                |                |                         |   | \$ 559,300                            | \$ 559,300                                    | \$ 932,319     | \$ 373,019     |
| RD610                 | Major Lake Road         | Trans Services                    | LCB-SST   | 7.9                                  | 2001                         | 24   | 2025                                  | 12                                | \$ 1,409,702               | \$ 197,500                               | \$ 742,600                               | \$ 940,100                       | good   | 4                                      | \$ 78,342   | \$ 78,342    | \$ 78,342  | \$ 78,342  | \$ 78,342  | \$ 78,342     | \$ 78,342  | \$ 78,342  | \$ 78,342  | \$ 78,342  | \$ 156,683     |                |                         |   | \$ 940,100                            | \$ 940,100                                    | \$ 1,567,089   | \$ 626,989     |
| RD615                 | Major Lake Road         | Trans Services                    | LCB-SST   | 3.5                                  | 1999                         | 26   | 2025                                  | 12                                | \$ 593,260                 | \$ 87,500                                | \$ 329,000                               | \$ 416,500                       | good   | 4                                      | \$ 34,708   | \$ 34,708    | \$ 34,708  | \$ 34,708  | \$ 34,708  | \$ 34,708     | \$ 34,708  | \$ 34,708  | \$ 34,708  | \$ 34,708  | \$ 69,417      |                |                         |   | \$ 416,500                            | \$ 416,500                                    | \$ 767,087     | \$ 350,587     |
| RD580                 | Victoria St.            | Trans Services                    | LCB-SST   | 0.2                                  | 2003                         | 17   | 2020                                  | 7                                 | \$ 39,804                  | \$ 5,000                                 | \$ 18,800                                | \$ 23,800                        | good   | 5                                      | \$ 3,400  | \$ 3,400     | \$ 3,400   | \$ 3,400   | \$ 3,400   | \$ 3,400      | \$ 3,400   | \$ 3,400   |            |            |                |                |                         |   | \$ 23,800                             | \$ 23,800                                     | \$ 35,679      | \$ 11,879      |
| RD520                 | Dawson Road             | Trans Services                    | LCB-SST   | 0.8                                  | 2002                         | 18   | 2020                                  | 7                                 | \$ 223,765                 | \$ 20,000                                | \$ 75,200                                | \$ 95,200                        | good   | 5                                      | \$ 13,600   | \$ 13,600    | \$ 13,600  | \$ 13,600  | \$ 13,600  | \$ 13,600     | \$ 13,600  | \$ 13,600  |            |            |                |                |                         |   | \$ 95,200                             | \$ 95,200                                     | \$ 142,717     | \$ 47,517      |
| RD530                 | Merton Street           | Trans Services                    | LCB-SST   | 0.6                                  | 2000                         | 20   | 2020                                  | 7                                 | \$ 114,747                 | \$ 15,000                                | \$ 56,400                                | \$ 71,400                        | good   | 5                                      | \$ 10,200   | \$ 10,200    | \$ 10,200  | \$ 10,200  | \$ 10,200  | \$ 10,200     | \$ 10,200  |            |            |            |                |                |                         |   | \$ 71,400                             | \$ 71,400                                     | \$ 107,038     | \$ 35,638      |
| RD540                 | Murchison Road          | Trans Services                    | LCB-SST   | 0.3                                  | 2003                         | 17   | 2020                                  | 7                                 | \$ 61,824                  | \$ 7,500                                 | \$ 28,200                                | \$ 35,700                        | good   | 5                                      | \$ 5,100  | \$ 5,100     | \$ 5,100   | \$ 5,100   | \$ 5,100   | \$ 5,100      | \$ 5,100   |            |            |            |                |                |                         |   | \$ 35,700                             | \$ 35,700                                     | \$ 53,519      | \$ 17,819      |
| RD220                 | Paradise Road           | Trans Services                    | LCB-SST   | 1.1                                  | 1998                         | 20   | 2018                                  | 5                                 | \$ 117,454                 | \$ 27,500                                | \$ 103,400                               | \$ 130,900                       | good   | 5                                      | \$ 26,180   | \$ 26,180    | \$ 26,180  | \$ 26,180  | \$ 26,180  |               |            |            |            |            |                |                |                         |   | \$ 130,900                            | \$ 130,900                                    | \$ 196,236     | \$ 65,336      |
| RD550 / RD560 / RD570 | Holstein St.            | Trans Services                    | LCB-SST   | 0.58                                 | 2004                         | 18   | 2022                                  | 9                                 | \$ 128,399                 | \$ 14,500                                | \$ 54,520                                | \$ 69,020                        | good   | 5                                      | \$ 7,669  | \$ 7,669     | \$ 7,669   | \$ 7,669   | \$ 7,669   | \$ 7,669      | \$ 7,669   | \$ 7,669   |            |            |                |                |                         |   | \$ 69,020                             | \$ 69,020                                     | \$ 103,470     | \$ 34,450      |
| <b>TOTALS</b>         |                         |                                   |   |                                      |                              |  |                                       | -                                 | \$ 14,671,234              | \$ 2,222,500                             | \$ 6,536,495                             | \$ 8,758,995                     | -  | -                                      | \$ 2,560,789  | \$ 1,087,014 | \$ 980,814 | \$ 815,848 | \$ 799,035 | \$ 684,545    | \$ 680,629 | \$ 178,114 | \$ 167,614 | \$ 145,945 | \$ 363,252     | \$ 116,306     | \$ 111,437              | \$ 67,650                                 | \$ 8,758,995                          | \$ 8,758,995                                  | \$ 14,791,972  | \$ 6,032,977   |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012) and/or based on information supplied by the Township of South Algonquin.
2. Road Assessment and Management Plan (2005) and/or based on information supplied by the Township of South Algonquin.
3. Data from Township of South Algonquin, Road Networks (2011) and/or based on information supplied by the Township of South Algonquin.
4. Based on information supplied by the Township of South Algonquin.
5. Level of Service: 1 = very low priority, 5 = very high priority.
6. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).
7. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.
8. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).
9. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.
10. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

**Table 6b**  
**Financial Assessment and Projections - Bridges and Large Culverts**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1,2</sup> | Operating Department <sup>1</sup> | Detailed Asset Description (Bridge / Culvert) <sup>1</sup> | Quantity | Year in Service and/or Last Upgrade Year <sup>1,4</sup> | Asset Life Expectancy (years) <sup>2</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> | Replacement Cost <sup>3</sup> | Condition Rating (good / fair / poor) <sup>3</sup> | Level of Service (1 to 5) <sup>5</sup> | Proposed Annual Contribution to Reserves <sup>5</sup> |           |           |           |           |               |      |      |      |      |                |                |                |                |            |            | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>6</sup> | Difference (Borrowing - Savings) <sup>7</sup> |
|-----------------------|---------------------------|-----------------------------------|--|----------|---|--|---------------------------------------|-----------------------------------|----------------------------|-------------------------------|--|--|---|-----------|-----------|-----------|-----------|---------------|------|------|------|------|----------------|----------------|----------------|----------------|------------|------------|-------------------------|---|---------------------------------------|---|
|                       |                           |                                   |  |          |   |  |                                       |                                   |                            |                               |  |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |      |      |      |      | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |            |            |                         |   |                                       |   |
|                       |                           |                                   |  |          |   |  |                                       |                                   |                            |                               |  |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020 | 2021 | 2022 | 2023 | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |            |            |                         |   |                                       |   |
| EQP230                | Algonquin Street Bridge   | Trans Services                    | Bridge   | 1        | 2004  | 0  | 2013                                  | 0                                 | \$ 213,848                 | \$ -                          | good   | 4                                      |   |           |           |           |           |               |      |      |      |      |                |                |                | \$ -           | \$ -       | \$ -       | \$ -                    |   |                                       |   |
| EQP231                | Madawaska River Bridge    | Trans Services                    | Bridge   | 1        | 1960  | 5  | 2018                                  | 5                                 | \$ 1                       | \$ 123,000                    | good   | 4                                      | \$ 24,600   | \$ 24,600 | \$ 24,600 | \$ 24,600 | \$ 24,600 |               |      |      |      |      |                |                |                | \$ 123,000     | \$ 123,000 | \$ 226,535 | \$ 103,535              |   |                                       |   |
| EQP232                | Moore's Creek Bridge      | Trans Services                    | Bridge   | 1        | 1960  | 0  | 2013                                  | 0                                 | \$ 1                       | \$ 72,000                     | good   | 4                                      | \$ 72,000   |           |           |           |           |               |      |      |      |      |                |                |                | \$ 72,000      | \$ 72,000  | \$ 132,606 | \$ 60,606               |   |                                       |   |
| EQP233                | Poverty Creek Bridge      | Trans Services                    | Bridge   | 1        | 1945  | 0  | 2013                                  | 0                                 | \$ 1                       | \$ 65,000                     | good   | 3                                      | \$ 65,000   |           |           |           |           |               |      |      |      |      |                |                |                | \$ 65,000      | \$ 65,000  | \$ 119,714 | \$ 54,714               |   |                                       |   |
| EQP234                | Airy Pedestrian Bridge    | Trans Services                    | Bridge   | 1        | 1995  | 0  | 2013                                  | 0                                 | \$ 1                       | \$ 20,000                     | fair   | 2                                      | \$ 20,000   |           |           |           |           |               |      |      |      |      |                |                |                | \$ 20,000      | \$ 20,000  | \$ 36,835  | \$ 16,835               |   |                                       |   |
| -                     | Victoria Lake Rd          | Trans Services                    | Culvert  | 2        | 1983  | 35   | 2018                                  | 5                                 | \$ 1                       | \$ 20,000                     | fair   | 3                                      | \$ 4,000  | \$ 4,000  | \$ 4,000  | \$ 4,000  | \$ 4,000  |               |      |      |      |      |                |                |                | \$ 20,000      | \$ 20,000  | \$ 36,835  | \$ 16,835               |   |                                       |   |
| <b>TOTALS</b>         |                           |                                   |  |          |   |  |                                       |                                   | \$ 213,853                 | \$ 300,000                    | -  | -                                      | \$ 185,600  | \$ 28,600 | \$ 28,600 | \$ 28,600 | \$ 28,600 | \$ 28,600     | \$ - | \$ - | \$ - | \$ - | \$ -           | \$ -           | \$ -           | \$ -           | \$ 300,000 | \$ 300,000 | \$ 552,524              | \$ 252,524                                |                                       |   |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. 2013 OSIM Bridge Inspection (J.D. Jewell Engineering Inc., 2013).
3. Based on information supplied by the Township of South Algonquin.
4. Level of Service: 1 = very low priority, 5 = very high priority.
5. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).
6. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.
7. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).
8. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.
9. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

**Table 6c**  
**Financial Assessment and Projections - Solid Waste**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>  | Operating Department <sup>1</sup> | Detailed Asset Description (WDS / WTS) <sup>1</sup> | Year in Service <sup>1,2</sup> | Asset Life Expectancy (years) <sup>3</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Proposed Annual Contribution to Reserves <sup>4</sup> |           |           |           |           |               |           |           |           |           |                |                |                |                |            |            | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>5</sup> | Difference (Borrowing - Savings) <sup>6</sup> |
|-----------------------|--|-----------------------------------|---|--------------------------------|--|---------------------------------------|-----------------------------------|----------------------------|-------------------------------|---|--|---|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|------------|------------|-------------------------|---|---------------------------------------|---|
|                       |  |                                   |   |                                |  |                                       |                                   |                            |                               |   |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |           |           |           |           | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |            |            |                         |   |                                       |   |
|                       |  |                                   |   |                                |  |                                       |                                   |                            |                               |   |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020      | 2021      | 2022      | 2023      | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |            |            |                         |   |                                       |   |
| -                     | Airy Waste Disposal Site   | Env. Services                     | WDS   | 2006                           | 23   | 2036                                  | 23                                | \$ 5,000                   | \$ 150,000                    | good  | 3                                      | \$ 6,522  | \$ 6,522  | \$ 6,522  | \$ 6,522  | \$ 6,522  | \$ 6,522      | \$ 6,522  | \$ 6,522  | \$ 6,522  | \$ 32,609 | \$ 32,609      | \$ 19,565      |                | \$ 150,000     | \$ 150,000 | \$ 250,041 | \$ 100,041              |   |                                       |   |
| -                     | Madawaska (Murchison and Lyell) Landfill Site  | Env. Services                     | WDS   | 1980                           | 4.5  | 2017.5                                | 4.5                               | \$ 5,000                   | \$ 150,000                    | good  | 4                                      | \$ 33,333   | \$ 33,333 | \$ 33,333 | \$ 33,333 | \$ 16,667 |               |           |           |           |           |                |                |                |                | \$ 150,000 | \$ 150,000 | \$ 161,435              | \$ 11,435                                 |                                       |   |
| -                     | Airy Waste Disposal Site - Closure Cost (Annual Contributions to Reserve)                      | Env. Services                     | WDS   | 2006                           | 23   | 2036                                  | 23                                | \$ -                       | \$ 120,900                    | -   | -                                      | \$ 5,257  | \$ 5,257  | \$ 5,257  | \$ 5,257  | \$ 5,257  | \$ 5,257      | \$ 5,257  | \$ 5,257  | \$ 5,257  | \$ 26,283 | \$ 26,283      | \$ 15,770      |                | \$ 120,900     | \$ 120,900 | \$ 201,533 | \$ 80,633               |   |                                       |   |
| -                     | Madawaska (Murchison and Lyell) Landfill Site - Closure Cost (Annual Contributions to Reserve) | Env. Services                     | WDS   | 1980                           | 4.5  | 2017.5                                | 4.5                               | \$ -                       | \$ 45,198                     | -   | -                                      | \$ 10,044   | \$ 10,044 | \$ 10,044 | \$ 10,044 | \$ 5,022  |               |           |           |           |           |                |                |                |                | \$ 45,198  | \$ 45,198  | \$ 48,644               | \$ 3,446                                  |                                       |   |
| <b>TOTALS</b>         |  |                                   |   |                                |  |                                       |                                   | \$ 10,000                  | \$ 466,098                    | -   | -                                      | \$ 55,156   | \$ 55,156 | \$ 55,156 | \$ 55,156 | \$ 33,467 | \$ 11,778     | \$ 11,778 | \$ 11,778 | \$ 11,778 | \$ 11,778 | \$ 58,891      | \$ 58,891      | \$ 35,335      | \$ -           | \$ 466,098 | \$ 466,098 | \$ 661,653              | \$ 195,555                                |                                       |   |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin.
3. Level of Service: 1 = very low priority, 5 = very high priority.
4. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).
5. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.
6. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).
7. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.
8. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

Table 6d  
Financial Assessment and Projections - Buildings  
Asset Management Plan  
Township of South Algonquin  
136.13.001

| Asset ID <sup>1</sup>                                | Asset Name <sup>1</sup>                                     | Operating Department <sup>1</sup> | Year in Service <sup>1</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Value <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Proposed Annual Contribution to Reserves <sup>4</sup> |           |           |           |           |               |           |          |          |          |                |                |                |                |            |            | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>5</sup> | Difference (Borrowing - Savings) <sup>6</sup> |
|--|---|-----------------------------------|------------------------------|--|---------------------------------------|-----------------------------------|-----------------------------|-------------------------------|---|--|---|-----------|-----------|-----------|-----------|---------------|-----------|----------|----------|----------|----------------|----------------|----------------|----------------|------------|------------|-------------------------|---|---------------------------------------|---|
|  |   |                                   |                              |  |                                       |                                   |                             |                               |   |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |           |          |          |          | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |            |            |                         |   |                                       |   |
|  |   |                                   |                              |  |                                       |                                   |                             |                               |   |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020      | 2021     | 2022     | 2023     | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |            |            |                         |   |                                       |   |
| BL010-07   | Trailer - Land Fill Site - Office                           | Env. Services                     | 2000                         | 20   | 2020                                  | 7                                 | \$ 856                      | \$ 7,000                      | fair  | 2                                      | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000      | \$ 1,000  |          |          |          |                |                |                | \$ 7,000       | \$ 7,000   | \$ 10,494  | \$ 3,494                |   |                                       |   |
| BL040-10   | Landfill Trailer - Madawaska                                | Env. Services                     | 1994                         | 20   | 2014                                  | 1                                 | \$ 769                      | \$ 7,000                      | fair  | 2                                      | \$ 7,000  |           |           |           |           |               |           |          |          |          |                |                |                | \$ 7,000       | \$ 7,000   | \$ 10,494  | \$ 3,494                |   |                                       |   |
| BL010-01   | FHT/Medical Centre/Library Complex - Medical Office/Library | Gen Gov                           | 2004                         | 19   | 2023                                  | 10                                | \$ 123,029                  | \$ 20,000                     | good  | 5                                      | \$ 2,000  | \$ 2,000  | \$ 2,000  | \$ 2,000  | \$ 2,000  | \$ 2,000      | \$ 2,000  | \$ 2,000 | \$ 2,000 |          |                |                |                | \$ 20,000      | \$ 20,000  | \$ 29,983  | \$ 9,983                |   |                                       |   |
| BL040-01   | Madawaska Storage #1  | Gen Gov                           | 1980                         | 43   | 2023                                  | 10                                | \$ 61,087                   | \$ 10,000                     | good  | 2                                      | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000      | \$ 1,000  | \$ 1,000 | \$ 1,000 |          |                |                |                | \$ 10,000      | \$ 10,000  | \$ 18,417  | \$ 8,417                |   |                                       |   |
| BL010-05   | Resource Centre - Office                                    | Gen Gov                           | 2004                         | 14   | 2018                                  | 5                                 | \$ 85,262                   | \$ 25,000                     | fair  | 3                                      | \$ 5,000  | \$ 5,000  | \$ 5,000  | \$ 5,000  | \$ 5,000  |               |           |          |          |          |                |                |                | \$ 25,000      | \$ 25,000  | \$ 33,540  | \$ 8,540                |   |                                       |   |
| BL010-06   | Municipal Office / Senior Centre                            | Gen Gov                           | 1999                         | 24   | 2023                                  | 10                                | \$ 642,300                  | \$ 50,000                     | good  | 5                                      | \$ 5,000  | \$ 5,000  | \$ 5,000  | \$ 5,000  | \$ 5,000  | \$ 5,000      | \$ 5,000  | \$ 5,000 | \$ 5,000 |          |                |                |                | \$ 50,000      | \$ 50,000  | \$ 83,347  | \$ 33,347               |   |                                       |   |
| BL010-02   | Whitney Fire Hall/EMS Complex - Fire Hall/Ambulance         | Pro Services                      | 2012                         | 6  | 2018                                  | 5                                 | \$ 124,506                  | \$ 40,000                     | fair  | 5                                      | \$ 8,000  | \$ 8,000  | \$ 8,000  | \$ 8,000  | \$ 8,000  |               |           |          |          |          |                |                |                | \$ 40,000      | \$ 40,000  | \$ 48,000  | \$ 8,000                |   |                                       |   |
| BL040-17.2<br>BL040-17.5                             | MultiPurpose Bldg - Fire                                    | Pro Services                      | 2009                         | 14   | 2023                                  | 10                                | \$ 547,891                  | \$ 5,000                      | good  | 5                                      | \$ 500  | \$ 500    | \$ 500    | \$ 500    | \$ 500    | \$ 500        | \$ 500    | \$ 500   | \$ 500   |          |                |                |                | \$ 5,000       | \$ 5,000   | \$ 6,708   | \$ 1,708                |   |                                       |   |
| BL010-03   | Lester B Smith Community Centre - Recreation Centre         | Rec & Cult Services               | 2000                         | 20   | 2020                                  | 7                                 | \$ 377,921                  | \$ 40,000                     | fair  | 5                                      | \$ 5,714  | \$ 5,714  | \$ 5,714  | \$ 5,714  | \$ 5,714  | \$ 5,714      | \$ 5,714  |          |          |          |                |                |                | \$ 40,000      | \$ 40,000  | \$ 59,965  | \$ 19,965               |   |                                       |   |
| BL010-04   | Recreation Storage Building - Storage - Ball Diamond        | Rec & Cult Services               | 2000                         | 60   | 2060                                  | 47                                | \$ 4,278                    | \$ 12,000                     | fair  | 1                                      |   |           |           |           |           |               |           |          |          | \$ 1,200 | \$ 2,000       | \$ 2,000       |                | \$ 5,200       | \$ 12,000  | \$ 22,101  | \$ 10,101               |   |                                       |   |
| BL010-14   | Whitney Park Picnic Area Gazebo - Recreation                | Rec & Cult Services               | 2000                         | 18   | 2018                                  | 5                                 | \$ 14,631                   | \$ 10,000                     | fair  | 1                                      | \$ 2,000  | \$ 2,000  | \$ 2,000  | \$ 2,000  | \$ 2,000  |               |           |          |          |          |                |                |                | \$ 10,000      | \$ 10,000  | \$ 14,991  | \$ 4,991                |   |                                       |   |
| BL010-15   | Sun Shelter-Bark Lake Park                                  | Rec & Cult Services               | 2012                         | 20   | 2032                                  | 19                                | \$ 8,751                    | \$ 9,000                      | good  | 1                                      | \$ 474  | \$ 474    | \$ 474    | \$ 474    | \$ 474    | \$ 474        | \$ 474    | \$ 474   | \$ 474   | \$ 2,368 | \$ 1,895       |                |                | \$ 9,000       | \$ 9,000   | \$ 13,492  | \$ 4,492                |   |                                       |   |
| BL010-19   | Galeairy Boat Launch Privy - Double                         | Rec & Cult Services               | 1992                         | 25   | 2017                                  | 4                                 | \$ 1,883                    | \$ 5,000                      | fair  | 2                                      | \$ 1,250  | \$ 1,250  | \$ 1,250  | \$ 1,250  |           |               |           |          |          |          |                |                |                | \$ 5,000       | \$ 5,000   | \$ 8,335   | \$ 3,335                |   |                                       |   |
| BL010-20   | Centennial Park Privy Men's - Double washroom               | Rec & Cult Services               | 1992                         | 25   | 2017                                  | 4                                 | \$ 1,883                    | \$ 3,000                      | fair  | 2                                      | \$ 750  | \$ 750    | \$ 750    | \$ 750    |           |               |           |          |          |          |                |                |                | \$ 3,000       | \$ 3,000   | \$ 5,001   | \$ 2,001                |   |                                       |   |
| BL010-21   | Centennial Park Privy Women's - Double washroom             | Rec & Cult Services               | 1992                         | 25   | 2017                                  | 4                                 | \$ 1,883                    | \$ 3,000                      | fair  | 2                                      | \$ 750  | \$ 750    | \$ 750    | \$ 750    |           |               |           |          |          |          |                |                |                | \$ 3,000       | \$ 3,000   | \$ 5,001   | \$ 2,001                |   |                                       |   |
| BL010-22   | Whitney Beach Change Room/Privy - Recreation Building       | Rec & Cult Services               | 1989                         | 29   | 2018                                  | 5                                 | \$ 28,000                   | \$ 50,000                     | poor  | 2                                      | \$ 10,000   | \$ 10,000 | \$ 10,000 | \$ 10,000 | \$ 10,000 |               |           |          |          |          |                |                |                | \$ 50,000      | \$ 50,000  | \$ 92,087  | \$ 42,087               |   |                                       |   |
| BL010-23   | Baseball Diamond Privy Men's - Double washroom              | Rec & Cult Services               | 1989                         | 25   | 2014                                  | 1                                 | \$ 2,348                    | \$ 3,000                      | fair  | 2                                      | \$ 3,000  |           |           |           |           |               |           |          |          |          |                |                |                | \$ 3,000       | \$ 3,000   | \$ 5,001   | \$ 2,001                |   |                                       |   |
| BL010-24   | Baseball Diamond Privy Women's - Double washroom            | Rec & Cult Services               | 1989                         | 25   | 2014                                  | 1                                 | \$ 3,354                    | \$ 3,000                      | fair  | 2                                      | \$ 3,000  |           |           |           |           |               |           |          |          |          |                |                |                | \$ 3,000       | \$ 3,000   | \$ 5,001   | \$ 2,001                |   |                                       |   |
| BL020-04   | Aylen Lake Boat Launch-Privy - Aylen Lake                   | Rec & Cult Services               | 1984                         | 30   | 2014                                  | 1                                 | \$ 2,717                    | \$ 5,000                      | poor  | 2                                      | \$ 5,000  |           |           |           |           |               |           |          |          |          |                |                |                | \$ 5,000       | \$ 5,000   | \$ 9,209   | \$ 4,209                |   |                                       |   |
| BL030-01   | Tom/Mick Murray Change Room - Bark Lake                     | Rec & Cult Services               | 2000                         | 20   | 2020                                  | 7                                 | \$ 16,088                   | \$ 20,000                     | good  | 2                                      | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857  | \$ 2,857      | \$ 2,857  |          |          |          |                |                |                | \$ 20,000      | \$ 20,000  | \$ 29,983  | \$ 9,983                |   |                                       |   |
| BL030-05   | Tom/Mick Murray Park Privy - Bark Lake                      | Rec & Cult Services               | 2000                         | 20   | 2020                                  | 7                                 | \$ 8,556                    | \$ 9,000                      | good  | 2                                      | \$ 1,286  | \$ 1,286  | \$ 1,286  | \$ 1,286  | \$ 1,286  | \$ 1,286      | \$ 1,286  |          |          |          |                |                |                | \$ 9,000       | \$ 9,000   | \$ 13,492  | \$ 4,492                |   |                                       |   |
| BL030-07   | Tom/Mick Murray Boat Launch Privy - Bark Lake               | Rec & Cult Services               | 2000                         | 20   | 2020                                  | 7                                 | \$ 4,278                    | \$ 3,000                      | good  | 2                                      | \$ 429  | \$ 429    | \$ 429    | \$ 429    | \$ 429    | \$ 429        | \$ 429    |          |          |          |                |                |                | \$ 3,000       | \$ 3,000   | \$ 4,497   | \$ 1,497                |   |                                       |   |
| BL040-06   | Mervin Dupuis Memorial Building - Madawaska                 | Rec & Cult Services               | 1999                         | 20   | 2019                                  | 6                                 | \$ 56,973                   | \$ 33,000                     | fair  | 3                                      | \$ 5,500  | \$ 5,500  | \$ 5,500  | \$ 5,500  | \$ 5,500  | \$ 5,500      |           |          |          |          |                |                |                | \$ 33,000      | \$ 33,000  | \$ 49,471  | \$ 16,471               |   |                                       |   |
| BL040-08   | Rink Building Pump House - Madawaska                        | Rec & Cult Services               | 1999                         | 20   | 2019                                  | 6                                 | \$ 4,832                    | \$ 5,500                      | fair  | 5                                      | \$ 917  | \$ 917    | \$ 917    | \$ 917    | \$ 917    | \$ 917        |           |          |          |          |                |                |                | \$ 5,500       | \$ 5,500   | \$ 8,245   | \$ 2,745                |   |                                       |   |
| BL040-09   | Madawaska Storage #2  | Rec & Cult Services               | 1999                         | 20   | 2019                                  | 6                                 | \$ 9,582                    | \$ 11,500                     | good  | 2                                      | \$ 1,917  | \$ 1,917  | \$ 1,917  | \$ 1,917  | \$ 1,917  | \$ 1,917      |           |          |          |          |                |                |                | \$ 11,500      | \$ 11,500  | \$ 17,240  | \$ 5,740                |   |                                       |   |
| BL040-16   | Outdoor Rink Privy - Madawaska                              | Rec & Cult Services               | 1999                         | 20   | 2019                                  | 6                                 | \$ 833                      | \$ 5,000                      | good  | 2                                      | \$ 833  | \$ 833    | \$ 833    | \$ 833    | \$ 833    | \$ 833        |           |          |          |          |                |                |                | \$ 5,000       | \$ 5,000   | \$ 7,496   | \$ 2,496                |   |                                       |   |
| BL040-17.1<br>BL040-17.3<br>BL040-17.4<br>BL040-17.6 | Library and Community Hall                                  | Rec & Cult Services               | 2009                         | 14   | 2023                                  | 10                                | \$ 1,017,512                | \$ 10,000                     | good  | 5                                      | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 1,000      | \$ 1,000  | \$ 1,000 | \$ 1,000 |          |                |                |                | \$ 10,000      | \$ 10,000  | \$ 13,416  | \$ 3,416                |   |                                       |   |
| <b>TOTALS</b>  |   |                                   |                              |  |                                       | -                                 | \$ 3,152,003                | \$ 404,000                    | -   | -                                      | \$ 76,176   | \$ 58,176 | \$ 58,176 | \$ 58,176 | \$ 55,426 | \$ 30,426     | \$ 21,259 | \$ 9,974 | \$ 9,974 | \$ 9,974 | \$ 2,368       | \$ 3,095       | \$ 2,000       | \$ 2,000       | \$ 397,200 | \$ 404,000 | \$ 625,006              | \$ 221,006                                |                                       |   |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin / and or determined by Greenview Environmental Management, Engineering Inspection Review (2013).
3. Level of Service: 1 = very low priority, 5 = very high priority.
4. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).
5. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.
6. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).
7. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.
8. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

**Table 6e**  
**Financial Assessment and Projections - Land Improvements**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>                      | Operating Department <sup>1</sup> | Detailed Assets Description <sup>1</sup> | Assets Class <sup>1</sup> | Year in Service <sup>1,2</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Cost <sup>1</sup> (2011) | Replacement Cost <sup>1,2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Proposed Annual Contribution to Reserves <sup>4</sup> |           |           |           |           |               |           |           |           |           |                |                | Total Reserve (30 Year) | Total Required Cost (Replacement Cost) | Estimated Borrowing Cost <sup>5</sup> | Difference (Borrowing - Savings) <sup>6</sup> |                |                |            |            |            |
|-----------------------|--|-----------------------------------|--|---------------------------|--------------------------------|--|---------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|---|--|---|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|----------------|----------------|-------------------------|--|---------------------------------------|---|----------------|----------------|------------|------------|------------|
|                       |  |                                   |  |                           |                                |  |                                       |                                   |                                   |                                 |   |  | Years 1 to 5  |           |           |           |           | Years 6 to 10 |           |           |           |           | Years 11 to 15 | Years 16 to 20 |                         |  |                                       |   | Years 21 to 25 | Years 26 to 30 |            |            |            |
|                       |  |                                   |  |                           |                                |  |                                       |                                   |                                   |                                 |   |  | 2014  | 2015      | 2016      | 2017      | 2018      | 2019          | 2020      | 2021      | 2022      | 2023      | 2024 to 2028   | 2029 to 2033   |                         |  |                                       |   | 2034 to 2038   | 2038 to 2042   |            |            |            |
| LA40-05.5             | Municipal Office Parking Lot - Whitney       | Gen Gov                           | Facility                                 | Land                      | 2010                           | 15   | 2025                                  | 12                                | \$ 26,966                         | \$ 35,000                       | good  | 3                                      | \$ 2,917  | \$ 2,917  | \$ 2,917  | \$ 2,917  | \$ 2,917  | \$ 2,917      | \$ 2,917  | \$ 2,917  | \$ 2,917  | \$ 2,917  | \$ 5,833.33    |                |                         |  | \$ 35,000                             | \$ 35,000                                     | \$ 46,955      | \$ 11,955      |            |            |            |
| LA10-01               | Fencing-Ball diamond - Whitney               | Rec & Cult Services               | Facility                                 | Land                      | 1985                           | 40   | 2025                                  | 12                                | \$ 15,425                         | \$ 27,300                       | good  | 2                                      | \$ 2,275  | \$ 2,275  | \$ 2,275  | \$ 2,275  | \$ 2,275  | \$ 2,275      | \$ 2,275  | \$ 2,275  | \$ 2,275  | \$ 2,275  | \$ 4,550.00    |                |                         |  | \$ 27,300                             | \$ 27,300                                     | \$ 50,280      | \$ 22,980      |            |            |            |
| LA10-02               | Playground Equipment - Lester Smith Building | Rec & Cult Services               | Facility                                 | Land                      | 2005                           | 15   | 2020                                  | 7                                 | \$ 47,784                         | \$ 60,000                       | good  | 2                                      | \$ 8,571  | \$ 8,571  | \$ 8,571  | \$ 8,571  | \$ 8,571  | \$ 8,571      | \$ 8,571  |           |           |           |                |                |                         |  | \$ 60,000                             | \$ 60,000                                     | \$ 80,495      | \$ 20,495      |            |            |            |
| LA10-15               | Retaining wall - Whitney-Gateairy            | Rec & Cult Services               | Facility                                 | Land                      | 1985                           | 40   | 2025                                  | 12                                | \$ 4,520                          | \$ 8,000                        | good  | 2                                      | \$ 667  | \$ 667    | \$ 667    | \$ 667    | \$ 667    | \$ 667        | \$ 667    | \$ 667    | \$ 667    | \$ 667    | \$ 1,333.33    |                |                         |  | \$ 8,000                              | \$ 8,000                                      | \$ 14,734      | \$ 6,734       |            |            |            |
| LA10-17               | Cenetaph - Centennial Park                   | Rec & Cult Services               | Facility                                 | Land                      | 1998                           | 50   | 2048                                  | 35                                | \$ 4,094                          | \$ 11,000                       | good  | 3                                      |   |           |           |           |           |               |           |           |           |           |                |                |                         | \$ 1,833.33                            | \$ 1,833                              | \$ 11,000                                     | \$ 20,259      | \$ 9,259       |            |            |            |
| LA10-19               | Multi Use Fencing - Madawaska                | Rec & Cult Services               | Facility                                 | Land                      | 2011                           | 15   | 2026                                  | 13                                | \$ 10,497                         | \$ 15,000                       | good  | 3                                      | \$ 1,154  | \$ 1,154  | \$ 1,154  | \$ 1,154  | \$ 1,154  | \$ 1,154      | \$ 1,154  | \$ 1,154  | \$ 1,154  | \$ 1,154  | \$ 3,461.54    |                |                         |  | \$ 15,000                             | \$ 15,000                                     | \$ 20,124      | \$ 5,124       |            |            |            |
| LA10-20               | Whitney Outdoor Rink - Lester Smith Building | Rec & Cult Services               | Facility                                 | Land                      | 1990                           | 20   | 2010                                  | -3                                | \$ 34,196                         | \$ 48,634                       | poor  | 2                                      | \$ 48,634   |           |           |           |           |               |           |           |           |           |                |                |                         |  | \$ 48,634                             | \$ 48,634                                     | \$ 72,908      | \$ 24,274      |            |            |            |
| LA30-04               | Playground Equipment - Tom Murray Memorial   | Rec & Cult Services               | Facility                                 | Land                      | 1999                           | 15   | 2014                                  | 1                                 | \$ 16,497                         | \$ 30,000                       | fair  | 2                                      | \$ 30,000   |           |           |           |           |               |           |           |           |           |                |                |                         |  | \$ 30,000                             | \$ 30,000                                     | \$ 40,247      | \$ 10,247      |            |            |            |
| LA40-03               | Playground Equipment - Madawaska             | Rec & Cult Services               | Facility                                 | Land                      | 1999                           | 15   | 2014                                  | 1                                 | \$ 12,498                         | \$ 15,000                       | poor  | 2                                      | \$ 15,000   |           |           |           |           |               |           |           |           |           |                |                |                         |  | \$ 15,000                             | \$ 15,000                                     | \$ 20,124      | \$ 5,124       |            |            |            |
| LA40-04               | Madawaska Outdoor Rink - Madawaska           | Rec & Cult Services               | Facility                                 | Land                      | 2006                           | 20   | 2026                                  | 13                                | \$ 48,634                         | \$ 60,000                       | good  | 3                                      | \$ 4,615  | \$ 4,615  | \$ 4,615  | \$ 4,615  | \$ 4,615  | \$ 4,615      | \$ 4,615  | \$ 4,615  | \$ 4,615  | \$ 4,615  | \$ 9,230.77    |                |                         |  | \$ 55,385                             | \$ 60,000                                     | \$ 89,948      | \$ 29,948      |            |            |            |
| LA40-05               | Fencing-Ball diamond - Madawaska             | Rec & Cult Services               | Facility                                 | Land                      | 1985                           | 40   | 2025                                  | 12                                | \$ 7,713                          | \$ 13,650                       | good  | 2                                      | \$ 1,138  | \$ 1,138  | \$ 1,138  | \$ 1,138  | \$ 1,138  | \$ 1,138      | \$ 1,138  | \$ 1,138  | \$ 1,138  | \$ 1,138  | \$ 2,275.00    |                |                         |  | \$ 13,650                             | \$ 13,650                                     | \$ 14,205      | \$ 555         |            |            |            |
| LD010-08              | Whitney Beach and Seniors                    | Rec & Cult Services               | Facility                                 | Land                      | -                              | -  | -                                     | -                                 | \$ 5,910                          | \$ -                            | -   | 3                                      |   |           |           |           |           |               |           |           |           |           |                |                |                         |  | \$ -                                  | \$ -  | \$ -           | \$ -           |            |            |            |
| <b>TOTALS</b>         |  |                                   |  |                           |                                |  |                                       | -                                 | \$ 234,734                        | \$ 323,584                      | -   | -                                      | \$ 114,970  | \$ 21,336 | \$ 21,336 | \$ 21,336 | \$ 21,336 | \$ 21,336     | \$ 21,336 | \$ 21,336 | \$ 21,336 | \$ 21,336 | \$ 12,765      | \$ 12,765      | \$ 12,765               | \$ 26,684                              | \$ -                                  | \$ -  | \$ 1,833       | \$ 309,802     | \$ 323,584 | \$ 470,279 | \$ 146,696 |

Notes:  
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2. Based on information supplied by the Township of South Algonquin.  
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4. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).  
5. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.  
6. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).  
7. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.  
8. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

**Table 6f**  
**Financial Assessment and Projections - Vehicles & Equipment**  
**Asset Management Plan**  
**Township of South Algonquin**  
**136.13.001**

| Asset ID <sup>1</sup> | Asset Name <sup>1</sup>  | Detailed Asset Description <sup>1</sup> | Operating Department <sup>1</sup> | Year in Service <sup>1</sup> | Asset Life Expectancy (years) <sup>1</sup> | Projected Replacement or Upgrade Year | Remaining Useful Life (from 2013) | Original Value <sup>1</sup> | Replacement Cost <sup>2</sup> | Condition (good / fair / poor) <sup>2</sup> | Level of Service (1 to 5) <sup>3</sup> | Proposed Annual Contribution to Reserves <sup>4</sup> |            |            |            |            |               |           |           |           |           |                |                |                |                |              |              | Total Reserve (30 Year) | Total Required Reserve (Replacement Cost) | Estimated Borrowing Cost <sup>5</sup> | Difference (Borrowing - Savings) <sup>6</sup> |
|-----------------------|--|---|-----------------------------------|------------------------------|--|---------------------------------------|-----------------------------------|-----------------------------|-------------------------------|---|--|---|------------|------------|------------|------------|---------------|-----------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|--------------|--------------|-------------------------|---|---------------------------------------|---|
|                       |  |   |                                   |                              |  |                                       |                                   |                             |                               |   |  | Years 1 to 5  |            |            |            |            | Years 6 to 10 |           |           |           |           | Years 11 to 15 | Years 16 to 20 | Years 21 to 25 | Years 26 to 30 |              |              |                         |   |                                       |   |
|                       |  |   |                                   |                              |  |                                       |                                   |                             |                               |   |  | 2014  | 2015       | 2016       | 2017       | 2018       | 2019          | 2020      | 2021      | 2022      | 2023      | 2024 to 2028   | 2029 to 2033   | 2034 to 2038   | 2038 to 2042   |              |              |                         |   |                                       |   |
| EQP06                 | 1990 John Deere Loader- Waste Disposal - Madawaska Yard              | Equipment                               | Env. Services                     | 1991                         | 20   | 2011                                  | -2                                | \$ 102,755                  | \$ 180,000                    | good  | 3                                      | \$ 180,000  |            |            |            |            |               |           |           |           |           |                |                |                | \$ 180,000     | \$ 180,000   | \$ 269,843   | \$ 89,843               |   |                                       |   |
| EQP237                | Garbage Bins (10 units)  | Equipment                               | Env. Services                     | 2003                         | 25   | 2028                                  | 15                                | \$ 4,013                    | \$ 15,000                     | good  | 4                                      | \$ 1,000  | \$ 1,000   | \$ 1,000   | \$ 1,000   | \$ 1,000   | \$ 1,000      | \$ 1,000  | \$ 1,000  | \$ 1,000  | \$ 5,000  |                |                |                |                | \$ 15,000    | \$ 15,000    | \$ 25,004               | \$ 10,004                                 |                                       |   |
| EQP104                | Generator - Medical Centre   | Equipment                               | Gen Gov                           | 2003                         | 20   | 2023                                  | 10                                | \$ 37,090                   | \$ 50,000                     | good  | 5                                      | \$ 5,000  | \$ 5,000   | \$ 5,000   | \$ 5,000   | \$ 5,000   | \$ 5,000      | \$ 5,000  | \$ 5,000  | \$ 5,000  |           |                |                |                |                | \$ 50,000    | \$ 50,000    | \$ 74,957               | \$ 24,957                                 |                                       |   |
| EQP220                | Munisoft Software - Municipal Office                                 | Equipment                               | Gen Gov                           | 2012                         | 5  | 2017                                  | 4                                 | \$ 10,074                   | \$ 10,000                     | good  | 3                                      | \$ 2,500  | \$ 2,500   | \$ 2,500   | \$ 2,500   |            |               |           |           |           |           |                |                |                |                | \$ 10,000    | \$ 10,000    | \$ 10,762               | \$ 762                                    |                                       |   |
| EQP229                | Electric Carnograph/Stand - Medical Centre                           | Equipment                               | Gen Gov                           | 2000                         | 10   | 2010                                  | -3                                | \$ 5,754                    | \$ 6,000                      | good  | 5                                      | \$ 6,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 6,000     | \$ 6,000     | \$ 7,200                | \$ 1,200                                  |                                       |   |
| EQP233                | Hancock cell phone - Fire Station                                    | Equipment                               | Gen Gov                           | 2002                         | 5  | 2007                                  | -6                                | \$ 34,647                   | \$ 40,000                     | good  | 4                                      | \$ 40,000   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 40,000    | \$ 40,000    | \$ 43,049               | \$ 3,049                                  |                                       |   |
| EQP246                | Software - Asset Management - Administration                         | Equipment                               | Gen Gov                           | 2008                         | 3  | 2011                                  | -2                                | \$ 5,681                    | \$ 8,000                      | poor  | 3                                      | \$ 8,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 8,000     | \$ 8,000     | \$ 8,610                | \$ 610                                    |                                       |   |
| EQP221                | 4 Air Tanks - Fire Station   | Equipment                               | Pro Services                      | 1999                         | 10   | 2009                                  | -4                                | \$ 11,798                   | \$ 12,000                     | good  | 5                                      | \$ 12,000   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 12,000    | \$ 12,000    | \$ 14,400               | \$ 2,400                                  |                                       |   |
| EQP223                | Pumps/Hoses - Fire Station   | Equipment                               | Pro Services                      | 1999                         | 10   | 2009                                  | -4                                | \$ 5,780                    | \$ 8,500                      | poor  | 5                                      | \$ 8,500  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 8,500     | \$ 8,500     | \$ 10,200               | \$ 1,700                                  |                                       |   |
| EQP224                | Fire Sled - MFD  | Equipment                               | Pro Services                      | 2012                         | 10   | 2022                                  | 9                                 | \$ 2,891                    | \$ 3,500                      | good  | 5                                      | \$ 389  | \$ 389     | \$ 389     | \$ 389     | \$ 389     | \$ 389        | \$ 389    | \$ 389    |           |           |                |                |                |                | \$ 3,500     | \$ 3,500     | \$ 4,200                | \$ 700                                    |                                       |   |
| EQP225                | Bunker Gear  | Equipment                               | Pro Services                      | 2012                         | 10   | 2022                                  | 9                                 | \$ 4,240                    | \$ 5,200                      | good  | 5                                      | \$ 578  | \$ 578     | \$ 578     | \$ 578     | \$ 578     | \$ 578        | \$ 578    | \$ 578    |           |           |                |                |                |                | \$ 5,200     | \$ 5,200     | \$ 6,240                | \$ 1,040                                  |                                       |   |
| EQP241                | Securitex Gear(8) - Fire Station                                     | Equipment                               | Pro Services                      | 2005                         | 10   | 2015                                  | 2                                 | \$ 10,438                   | \$ 14,000                     | fair  | 5                                      | \$ 7,000  | \$ 7,000   |            |            |            |               |           |           |           |           |                |                |                |                | \$ 14,000    | \$ 14,000    | \$ 16,800               | \$ 2,800                                  |                                       |   |
| EQP242                | Fire Communications Repeater   | Equipment                               | Pro Services                      | 2005                         | 5  | 2010                                  | -3                                | \$ 8,341                    | \$ 10,500                     | poor  | 5                                      | \$ 10,500   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 10,500    | \$ 10,500    | \$ 11,300               | \$ 800                                    |                                       |   |
| EQP10                 | Kubota Riding Lawnmower - Madawaska Yard                             | Equipment                               | Rec & Cult Services               | 2005                         | 20   | 2025                                  | 12                                | \$ 15,679                   | \$ 16,000                     | good  | 3                                      | \$ 1,333  | \$ 1,333   | \$ 1,333   | \$ 1,333   | \$ 1,333   | \$ 1,333      | \$ 1,333  | \$ 1,333  | \$ 1,333  | \$ 2,667  |                |                |                |                | \$ 16,000    | \$ 16,000    | \$ 23,986               | \$ 7,986                                  |                                       |   |
| EQP103                | Zamboni - Whitney Rink   | Equipment                               | Rec & Cult Services               | 2001                         | 10   | 2011                                  | -2                                | \$ 3,050                    | \$ 30,000                     | fair  | 3                                      | \$ 30,000   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 30,000    | \$ 30,000    | \$ 36,000               | \$ 6,000                                  |                                       |   |
| EQP09                 | Champion-740 Grader - Madawaska Yard                                 | Equipment                               | Trans Services                    | 2004                         | 20   | 2024                                  | 11                                | \$ 37,185                   | \$ 250,000                    | good  | 5                                      | \$ 22,727   | \$ 22,727  | \$ 22,727  | \$ 22,727  | \$ 22,727  | \$ 22,727     | \$ 22,727 | \$ 22,727 | \$ 22,727 | \$ 22,727 | \$ 22,727      |                |                |                | \$ 250,000   | \$ 250,000   | \$ 374,783              | \$ 124,783                                |                                       |   |
| EQP106                | Tailgate Spreader/Chute - Madawaska Yard                             | Equipment                               | Trans Services                    | 2009                         | 20   | 2029                                  | 16                                | \$ 8,737                    | \$ 10,000                     | good  | 2                                      | \$ 625  | \$ 625     | \$ 625     | \$ 625     | \$ 625     | \$ 625        | \$ 625    | \$ 625    | \$ 625    | \$ 3,125  | \$ 625         |                |                |                | \$ 10,000    | \$ 10,000    | \$ 14,991               | \$ 4,991                                  |                                       |   |
| EQP11                 | 20 Ton Float Trailer - Madawaska Yard                                | Equipment                               | Trans Services                    | 2007                         | 20   | 2027                                  | 14                                | \$ 21,060                   | \$ 25,000                     | good  | 3                                      | \$ 1,786  | \$ 1,786   | \$ 1,786   | \$ 1,786   | \$ 1,786   | \$ 1,786      | \$ 1,786  | \$ 1,786  | \$ 1,786  | \$ 7,143  |                |                |                |                | \$ 25,000    | \$ 25,000    | \$ 37,478               | \$ 12,478                                 |                                       |   |
| EQP12                 | Utility Trailer-Landscape - Madawaska Yard                           | Equipment                               | Trans Services                    | 2005                         | 20   | 2025                                  | 12                                | \$ 2,430                    | \$ 2,500                      | good  | 3                                      | \$ 208  | \$ 208     | \$ 208     | \$ 208     | \$ 208     | \$ 208        | \$ 208    | \$ 208    | \$ 208    | \$ 417    |                |                |                |                | \$ 2,500     | \$ 2,500     | \$ 3,748                | \$ 1,248                                  |                                       |   |
| EQP13                 | Thompson Steamer - New - Madawaska Yard                              | Equipment                               | Trans Services                    | 1998                         | 20   | 2018                                  | 5                                 | \$ 7,563                    | \$ 9,000                      | good  | 5                                      | \$ 1,800  | \$ 1,800   | \$ 1,800   | \$ 1,800   | \$ 1,800   |               |           |           |           |           |                |                |                |                | \$ 9,000     | \$ 9,000     | \$ 13,492               | \$ 4,492                                  |                                       |   |
| EQP16                 | 2001 Volvo Grader - Madawaska Yard                                   | Equipment                               | Trans Services                    | 2008                         | 20   | 2028                                  | 15                                | \$ 155,520                  | \$ 250,000                    | good  | 4                                      | \$ 16,667   | \$ 16,667  | \$ 16,667  | \$ 16,667  | \$ 16,667  | \$ 16,667     | \$ 16,667 | \$ 16,667 | \$ 16,667 | \$ 83,333 |                |                |                |                | \$ 250,000   | \$ 250,000   | \$ 374,783              | \$ 124,783                                |                                       |   |
| T-4                   | Int. - Red Garb/compactor- Waste Collection - Madawaska Yard         | Vehicle                                 | Env. Services                     | 1999                         | 15   | 2014                                  | 1                                 | \$ 128,612                  | \$ 185,000                    | poor  | 4                                      | \$ 185,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 185,000   | \$ 185,000   | \$ 248,192              | \$ 63,192                                 |                                       |   |
| T-23                  | International Work Star Rear Loader Garbage Truck                    | Vehicle                                 | Env. Services                     | 2014                         | 20   | 2034                                  | 21                                | \$ 190,000                  | \$ 200,000                    | good  | 5                                      | \$ 9,524  | \$ 9,524   | \$ 9,524   | \$ 9,524   | \$ 9,524   | \$ 9,524      | \$ 9,524  | \$ 9,524  | \$ 9,524  | \$ 47,619 | \$ 47,619      | \$ 9,524       |                |                | \$ 200,000   | \$ 200,000   | \$ 299,826              | \$ 99,826                                 |                                       |   |
| T5-505                | MFD - Fire Truck   | Vehicle                                 | Pro Services                      | 2011                         | 25   | 2036                                  | 23                                | \$ 111,936                  | \$ 200,000                    | good  | 5                                      | \$ 8,696  | \$ 8,696   | \$ 8,696   | \$ 8,696   | \$ 8,696   | \$ 8,696      | \$ 8,696  | \$ 8,696  | \$ 8,696  | \$ 43,478 | \$ 43,478      | \$ 26,087      |                |                | \$ 200,000   | \$ 200,000   | \$ 333,388              | \$ 133,388                                |                                       |   |
| TF501                 | 1974 GMC Pumper Truck - Whitney Fire Station                         | Vehicle                                 | Pro Services                      | 1985                         | 25   | 2010                                  | -3                                | \$ 42,272                   | \$ 180,000                    | good  | 5                                      | \$ 180,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 180,000   | \$ 180,000   | \$ 300,049              | \$ 120,049                                |                                       |   |
| TF502                 | 1991 Ford Rescue Truck - Whitney Fire Station                        | Vehicle                                 | Pro Services                      | 1991                         | 25   | 2016                                  | 3                                 | \$ 103,656                  | \$ 180,000                    | good  | 5                                      | \$ 60,000   | \$ 60,000  | \$ 60,000  |            |            |               |           |           |           |           |                |                |                |                | \$ 180,000   | \$ 180,000   | \$ 300,049              | \$ 120,049                                |                                       |   |
| TF503                 | 1976 Tanker Truck - Whitney Fire Station                             | Vehicle                                 | Pro Services                      | 1988                         | 25   | 2013                                  | 0                                 | \$ 47,417                   | \$ 150,000                    | fair  | 5                                      | \$ 150,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 150,000   | \$ 150,000   | \$ 250,041              | \$ 100,041                                |                                       |   |
| TF504                 | 1989 Equipment Van   | Vehicle                                 | Pro Services                      | 1994                         | 25   | 2019                                  | 6                                 | \$ 2,678                    | \$ 40,000                     | fair  | 5                                      | \$ 6,667  | \$ 6,667   | \$ 6,667   | \$ 6,667   | \$ 6,667   |               |           |           |           |           |                |                |                |                | \$ 40,000    | \$ 40,000    | \$ 66,678               | \$ 26,678                                 |                                       |   |
| TF531                 | 1979 International Pumper - Madawaska Fire Station                   | Vehicle                                 | Pro Services                      | 1979                         | 25   | 2004                                  | -9                                | \$ 64,538                   | \$ 18,000                     | good  | 5                                      | \$ 18,000   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 18,000    | \$ 18,000    | \$ 30,005               | \$ 12,005                                 |                                       |   |
| TF533                 | 1990 Halfton 4X4 - Madawaska Fire Station                            | Vehicle                                 | Pro Services                      | 1998                         | 15   | 2013                                  | 0                                 | \$ 12,911                   | \$ 26,000                     | good  | 5                                      | \$ 26,000   |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 26,000    | \$ 26,000    | \$ 34,881               | \$ 8,881                                  |                                       |   |
| TF534                 | 1999 Ford F-550 - New - Madawaska Fire Station                       | Vehicle                                 | Pro Services                      | 1999                         | 15   | 2014                                  | 1                                 | \$ 139,585                  | \$ 150,000                    | good  | 5                                      | \$ 150,000  |            |            |            |            |               |           |           |           |           |                |                |                |                | \$ 150,000   | \$ 150,000   | \$ 201,237              | \$ 51,237                                 |                                       |   |
| T-17                  | 2010 Steel Spreader - Madawaska Yard                                 | Vehicle                                 | Trans Services                    | 2010                         | 20   | 2030                                  | 17                                | \$ 5,083                    | \$ 5,500                      | good  | 4                                      | \$ 324  | \$ 324     | \$ 324     | \$ 324     | \$ 324     | \$ 324        | \$ 324    | \$ 324    | \$ 324    | \$ 1,618  | \$ 647         |                |                |                | \$ 5,500     | \$ 5,500     | \$ 8,245                | \$ 2,745                                  |                                       |   |
| T-20                  | Tr#20 2012 -1 Ton Truck w/ Plow                                      | Vehicle                                 | Trans Services                    | 2012                         | 5  | 2017                                  | 4                                 | \$ 65,532                   | \$ 68,000                     | good  | 4                                      | \$ 17,000   | \$ 17,000  | \$ 17,000  | \$ 17,000  |            |               |           |           |           |           |                |                |                |                |              | \$ 68,000    | \$ 68,000               | \$ 73,184                                 | \$ 5,184                              |   |
| T-21                  | Truck 21 - F150 4X4 Super Cab  | Vehicle                                 | Trans Services                    | 2012                         | 5  | 2017                                  | 4                                 | \$ 31,524                   | \$ 25,000                     | good  | 3                                      | \$ 6,250  | \$ 6,250   | \$ 6,250   | \$ 6,250   |            |               |           |           |           |           |                |                |                |                |              | \$ 25,000    | \$ 25,000               | \$ 26,906                                 | \$ 1,906                              |   |
| T-22                  | Tr#22 F150 4X4 Super Cab   | Vehicle                                 | Trans Services                    | 2012                         | 5  | 2017                                  | 4                                 | \$ 31,770                   | \$ 25,000                     | good  | 3                                      | \$ 6,250  | \$ 6,250   | \$ 6,250   | \$ 6,250   |            |               |           |           |           |           |                |                |                |                |              | \$ 25,000    | \$ 25,000               | \$ 26,906                                 | \$ 1,906                              |   |
| T-7                   | 2008 International Yellow Plow/Sander New - Madawaska Yard           | Vehicle                                 | Trans Services                    | 2008                         | 10   | 2018                                  | 5                                 | \$ 180,468                  | \$ 200,000                    | good  | 5                                      | \$ 40,000   | \$ 40,000  | \$ 40,000  | \$ 40,000  | \$ 40,000  |               |           |           |           |           |                |                |                |                | \$ 200,000   | \$ 200,000   | \$ 239,998              | \$ 39,998                                 |                                       |   |
| T-8                   | 2004 International - 6X4SBA - Madawaska Yard                         | Vehicle                                 | Trans Services                    | 2003                         | 10   | 2013                                  | 0                                 | \$ 182,291                  | \$ 200,000                    | good  | 5                                      | \$ 200,000  |            |            |            |            |               |           |           |           |           |                |                |                |                |              | \$ 200,000   | \$ 200,000              | \$ 239,998                                | \$ 39,998                             |   |
| T-24                  | Tr. 24-2014 Super Duty 4x4 Single Cab (incl. Western MV P3 Snowplow) | Vehicle                                 | Trans Services                    | 2014                         | 5  | 2019                                  | 6                                 | \$ 35,683                   | \$ 40,000                     | good  | 4                                      | \$ 6,667  | \$ 6,667   | \$ 6,667   | \$ 6,667   | \$ 6,667   |               |           |           |           |           |                |                |                |                | \$ 40,000    | \$ 40,000    | \$ 43,049               | \$ 3,049                                  |                                       |   |
| <b>TOTALS</b>         |  |   |                                   |                              |  |                                       |                                   | \$ 1,870,682                | \$ 2,847,700                  | -   | -                                      | \$ 1,426,989  | \$ 222,989 | \$ 215,989 | \$ 155,989 | \$ 123,989 | \$ 82,189     | \$ 68,856 | \$ 68,856 | \$ 68,856 | \$ 67,889 | \$ 217,127     | \$ 92,369      | \$ 35,611      | \$ -           | \$ 2,847,700 | \$ 2,847,700 | \$ 4,104,458            | \$ 1,256,758                              |                                       |   |

Notes:

1. Data from Township of South Algonquin, Tangible Capital Asset Detail (2012).
2. Based on information supplied by the Township of South Algonquin.
3. Level of Service: 1 = very low priority, 5 = very high priority.
4. Proposed Annual Contribution to Reserves calculated based on Replacement Cost/(Projected Replacement or Upgrade Year - 2013).
5. Estimated Borrowing Cost from Infrastructure Ontario Lending Rates and Loan Payment Calculator, based on five-year to thirty-year payment term (as applicable) and annual payments.
6. Difference (Saving vs. Borrowing) calculated as Estimated Borrowing Cost - Total Required Reserve (Replacement Cost).
7. Any grant/subsidies (Federal or Provincial) would be used to reduce Annual Contributions to Reserves and/or borrowing amounts.
8. Proposed Annual Contributions to Reserves assumes Interest Rate on savings for Reserves equals Inflation Rate on cost of asset purchases.

Selected Focus Item

## **APPENDIX B**

### **Statement of Service Conditions and Limitations**



## **GREENVIEW ENVIRONMENTAL MANAGEMENT LIMITED - STATEMENT OF SERVICE CONDITIONS AND LIMITATIONS**

### **Provision of Services and Payment**

Upon documented acceptance of Greenview's proposed services, costs and associated terms by the client, Greenview may commence work on the proposed services directly. Upon retention of Greenview's services related to this project, the client agrees to remit payment for the services rendered for the specified period within (30) days of receipt as invoiced by Greenview on a typical monthly basis, unless otherwise arranged between the client and Greenview. In the event of non-payment by the client, Greenview reserves the right, without external influence or expense, to discontinue services and retain any documentation, data, reports, or other project information until such time as payment is received by Greenview.

### **Warranty, Limitations, and Reliance**

Greenview relies on background and historical information from the client to determine the appropriate scope of services to meet the client's objectives, in accordance with applicable legislation, guidelines, industry practices, and accepted methodologies.

Greenview provides its services under the specific terms and conditions of a specific proposal (and where necessary formal contract), in accordance with the above requirements and the *Limitations Act 2002*, only.

The hypotheses, results, conclusions, and recommendations presented in documentation authored by Greenview are founded on the information provided by the client to Greenview in preparation for the work. Facts, conditions, and circumstances discovered by Greenview during the performance of the work requested by the client are assumed by Greenview to be part of preparatory information provided by the client as part of the proposal stage of the project. Greenview assumes that, until notified or discovered otherwise, that the information provided by, or obtained by Greenview from, the client is factual, accurate, and represents a true depiction of the circumstances that exist related to the time of the work.

Greenview relies on its clients to inform Greenview if there are changes to any related information to the work. Greenview does not review, analyze or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Greenview will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to or that are concealed from Greenview during the period that services, work, or documentation preparation was performed by Greenview.

Facts, conditions, information and circumstances may vary with time and locations and Greenview's work is based on a review of such matters as they existed at the particular time and location indicated in its documentation. No assurance is made by Greenview that the facts, conditions, information, circumstances or any underlying assumptions made by Greenview in connection with the work performed will not change after the work is completed and documentation is submitted. If any such changes occur or additional information is obtained, Greenview should be advised and requested to consider if the changes or additional information affect its findings or results.

When preparing documentation, Greenview considers applicable legislation, regulations, governmental guidelines and policies to the extent they are within its knowledge, but Greenview is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations,

governmental guidelines, and policies is for information only and is not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Greenview's services, work and reports are provided solely for the exclusive use of the client which has retained the services of Greenview and to which its reports are addressed. Greenview is not responsible for the use of its services, work or reports by any other party, or for the reliance on, or for any decision which is made by any party using the services or work performed by or a report prepared by Greenview without Greenview's express written consent. Any party that uses, relies on, or makes a decision based on services or work performed by Greenview or a report prepared by Greenview without Greenview's express written consent, does so at its own risk. Except as set out herein, Greenview specifically disclaims any liability or responsibility to any third party for any loss, damage, expense, fine, penalty or other such thing which may arise or result from the use of, reliance on or decision based on any information, recommendation or other matter arising from the services, work or reports provided by Greenview.

### **Site Assessments**

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Greenview's work or report considers any locations or times other than those from which information, sample results and data were specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those based on extrapolations.

Only conditions, and substances, at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the client. Any physical or other aspects of the site that were not chosen for study by the client, or any other matter not specifically addressed in a report prepared by Greenview, are beyond the scope of the work performed by Greenview and such matters have not been investigated or addressed.

### **Confidentiality**

Greenview provides proposals, reports, assessments, designs, and any other work for the sole party identified as the client or potential client in the case of proposals.

For proposals specifically, the information contained therein is confidential, proprietary information, and shall not be reproduced or disclosed to any other party than to that of the addressee of the original proposal submission, without prior written permission of Greenview.