BLIND RIVER
ONTARIO, CANADA

A Waste Recycling Strategy for

The Town of Blind River

May 17, 2012

Prepared with assistance from
Waste Diversion Ontario

KRESIN
Engineering Corporation

A Waste Recycling Strategy
For the Town of Blind River

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1. Introduction

Production of this Waste Recycling Strategy (WRS) was initiated by the Town of Blind (Town) to develop a plan to increase the efficiency and effectiveness of its recycling program and maximize the amount of blue box material diverted from landfill. Specifically, the purpose of this recycling plan is to identify opportunities to increase waste diversion from disposal and extend the capacity of the current and future landfills (or other disposal component of the municipal waste management plan).

Waste Diversion Ontario (WDO) identifies a "Reasonable Blue Box Diversion Goal" (ie. the capture rate of blue box materials) of 70% for municipalities like Blind River at a net program cost of $540 per tonne (or less). It is a goal of the Municipality to develop a WRS that maximizes the recyclables capture rate (thus increasing the waste diversion rate) and that is sustainable considering available materials markets.

The Town is responsible for managing its residential, and IC&I solid waste including reduction and diversion, handling and collection, and disposal. Waste is disposed of at the municipal waste disposal site by a contractor who collects municipal waste and by residential/commercial direct-haul. A curb side waste collection program is in place in the Town of Blind River, providing weekly refuse pick-up for residents of the community. A curb side recyclables program is also maintained by the Town with materials collected once every 2 weeks. The collection programs are run by a private company under contract with the Town.

The Town faces a number of waste management challenges, which this WRS will help address. In particular:

1. The WDO requirement that a WRS be in place;
2. The desire to maximize the life span of the current and future waste disposal sites; and,
3. The lack of local markets for recycled materials.

This WRS was developed with support from WDO, the Town's Ecological Resource Committee (ERC) and using the Continuous Investment Fund's *Guidebook for Creating a Municipal Waste Recycling Strategy*.

2. Overview of the Planning Process

This WRS was prepared through the efforts of the Town ERC with assistance from Kresin Engineering Corporation (KEC).

The steps involved in the development of this WRS include:

1. Characterize the waste stream;
2. Describe the existing recycling program;

3. Discuss and develop the WRS goals and initiatives with the ERC;
4. Identify potential improvements and/or additions to the recycling program;
5. Identify candidate improvements and/or additions;
6. Assess the feasibility of implementing improvements and/or additions (i.e. cost-benefit);
7. Involve the public;
8. Identify contingencies; and,
9. Develop implementation, monitoring and reporting plans.

The next steps in this process include:

1. Initiate the WRS implementation, monitoring and reporting plans.

To ensure the public and local stakeholders were able to participate in the preparation of this WRS, comments provided from public open house meetings and other formats/venues were taken into consideration. More details on the public consultation process are presented in Section 4.

3. Study Area

The study area for this WRS includes residential, commercial and institutional sectors in the Town of Blind River.

This WRS will address the following sectors:

1. Residential single family;
2. Residential multi-family;
3. Commercial (eg. small businesses); and,
4. Institutional (eg. schools).

Although waste generated in the industrial, commercial and institutional (IC&I) sectors is not counted in WDO's datacall, they are included in the WRS to help reduce the total volume of waste requiring disposal.

4. Public Consultation Process

The public consultation process followed in the development of this WRS consisted of the following activities:

1. Stakeholder interviews to identify key issues, concerns, and opportunities.
2. Open houses to provide updates to the public and to obtain public input/comments.
3. Notices (newspaper, cable television, etc.).

Stakeholder groups included in this consultation included:

1. Town (through the ERC);
2. Waste management contractors;
3. General public, businesses and institutions; and,
4. WDO.

The response from the public and stakeholders included:

Prior to initiating production of this WRS, a public open house was held by KEC and the Town in conjunction with the Waste Management Plan Environmental Assessment. At the open house, residents provided the following input and comment relating to increasing waste diversion:

1. Hazardous wastes should be collected more often.
2. Better control is needed to ensure separation of recyclable materials being brought to the landfill by large trucks.
3. The Town should not be content with the current diversion rate if it may be increased by passing bylaws and/or better enforcement.

A public open house was also conducted during production of this WRS (following identification of the Priority and Future strategies). A copy of the open house presentation boards is included in Appendix A and copies of the comments received are included in Appendix B. The residents who attended the WRS open house were all in favour of making improvements to the current WRS and diversion in general. Comments received, included:

1. Improvements should be made to the current recycling depot (hours of operation and maintenance).
2. Can a depot be placed in an accessible and central location.
3. More opportunities for waste diversion (including composting) are required.
4. The current processing plant has a limited capacity.

An email survey of Blind River Chamber of Commerce members was also conducted to help gauge the quantities of waste and recyclables generated by the commercial and institutional sectors and to obtain insight regarding the potential to divert additional materials from landfill. The following general conclusions are provided from a review of the few responses that were received (copies in Appendix C):

1. An industrial establishment produces a large volume of waste material that may be re-directed from landfill if an appropriate facility to accommodate water treatment plant sludge is provided.
2. Styrofoam and bubble wrap recycling could be considered.
3. These sectors produce large amounts of waste paper products and facilities to divert this material should be maintained and perhaps expanded.
4. More outreach and information should be provided for top-of-mind awareness.

5. Stated Problem

Management of municipal solid waste, including the diversion of blue box materials, is a key responsibility for all municipal governments in Ontario. The factors that encourage or hinder municipal blue box recycling endeavors can vary greatly and depends on a municipality's size, geographic location and population.

The key drivers and factors that led to the development of this WRS include:

1. the WDO requirement to have a WRS in place;
2. the desire to maximize the life span of the current and future waste disposal sites; and,
3. the lack of local markets for recycled materials.

6. Goals and Objectives

This WRS has identified a number of goals and objectives for the Town as presented in Table 6.1.

Table 6.1: Waste Recycling Goals and Objectives

Goals	Objectives
To maximize diversion of residential/municipal solid waste through the blue box/recycling program	• Divert 17% of municipal solid waste through the blue box/recycling program
To maximize capture rates of blue box materials through existing and future programs	• Capture 70% of blue box materials • Increase capture of blue box municipal solid waste by 18% within 3 years
To increase participation in the recycling program	• Make recycling services available to 90% of residents • Raise participation in blue box program to 75%
To expand the lifetime of our landfill	• Add 5 years to the lifespan of the landfill by increasing blue box diversion
To manage our waste in our community or as close to home as possible	• Dispose of all locally generated waste within municipal borders

This WRS has also identified as series of broader community goals to which it can contribute. These broader community goals are presented in Table 6.2.

Table 6.2: Community Goals and Objectives	
Goals	**Objectives**
To reduce our emissions and carbon footprint	• Reduce municipal greenhouse gas emissions by 10%
To enhance service/value for our taxpayers	

7. Current Solid Waste Trends, Practices and System and Future Needs

Community Characteristics

In 2010, the Town had a population of approximately 3,650. A total of 2,429 households are serviced by municipal curb side collection. Of these households, 2,216 are single-family households and 213 are multi-family households. There are also an additional 490 seasonal dwellings, which are generally occupied during the months of May to October.

Current Waste Generation and Diversion

Currently, the Town generates approximately 4,928.28 tonnes of residential solid waste per year. Of this, 609.01 tonnes, or 12.4 percent, is diverted through the blue box/recycling program. Currently, on a tonnage basis, the most common material recycled is old corrugated cardboard, while the least is glass.

Table 7.1 summarizes the current (2010) waste generation and blue box diversion rates.

Table 7.1: Residential Solid Waste Generated and Diverted through Blue Box		
Residential Waste Stream/Blue Box Material	**Tonnes**	**Percent of Total Waste**
Total waste generated	4,928.28	-
Papers (ONP, OMG, OCC, OBB and fine papers)	513.8	10.4%
Metals (aluminum, steel, mixed metal)	86.61	1.8%
Plastics (containers, film, tubs and lids)	Incl. above	Incl. above
Glass	8.6	0.2%
Total Blue Box material currently diverted	609.01	12.4%

As Table 7.2 indicates, the Town's current diversion rate is below average for its WDO municipal grouping.

Table 7.2: Average Blue Box Diversion Rate (2010)	
Town of Blind River	12.4%
Municipal Grouping: Rural Collection - North	20.29%

Potential Waste Diversion

The Town's current waste stream composition was estimated using data presented by WDO for "Ontario (Small Urban and Rural)" municipalities as shown in Figure 1 (taken from the CIF Guidebook).

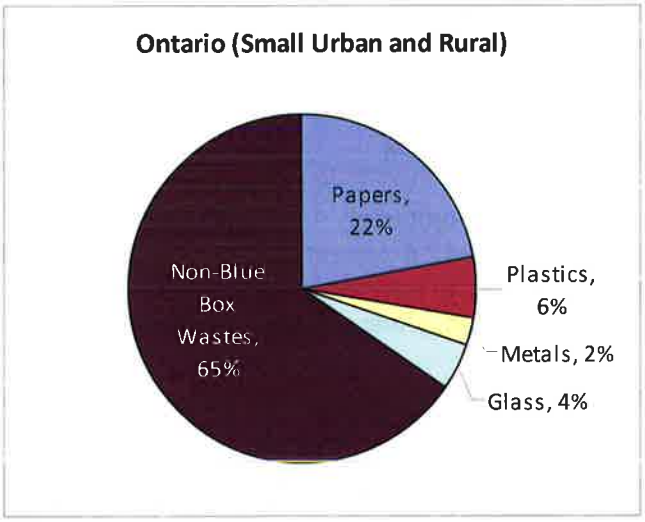


Figure 1: Typical Waste Stream Composition

Using the waste stream composition presented in Figure 1, a total of approximately 1,675.62 tonnes of blue box recyclable materials are present in the waste stream. Assuming a blue box material capture rate of 70%, approximately 1,172.93 tonnes of material are available for diversion, of which approximately 563.92 tonnes are still currently in the waste stream. Estimates of blue box material available for diversion are listed in the Table 7.3.

Table 7.3: Current and Potential Diversion			
Material	***Total Available in Waste Stream (tonnes/year)***	***Currently Recycled (tonnes/year)***	**Potential Increase *(tonnes/year)***
Papers (ONP, OMG, OCC, OBB and fine papers)	758.96	513.80	245.15
Metals (aluminum, steel, mixed metal)	69.00	86.61	189.37
Plastics (containers, film, tubs and lids)	206.99	Incl. above	Incl. above
Glass	138.00	8.6	129.39
Total	1,172.93	609.01	563.92

Diverting the blue box material remaining in the Town's waste stream, assuming a 70% blue box material capture rate, could raise its waste diversion rate to 23.8%.

Existing Programs and Services

Currently, the Town has the following policies and programs in place to manage residential solid waste:

- Bag limit (3 bags) for curbside collection.

Collection services of regular waste are provided to the residents by a contractor retained by the Town (curbside collection in the urban areas and depots in rural areas) and recycling services (urban areas only) are also provided by a contractor. Recycling pick-up is currently not provided to multi-residential developments.

Disposal and recycling services are paid for primarily through the general tax base. Once recyclable materials have been collected, they are taken to Municipal Waste Recycling Consultant's transfer station, located in Blind River.

Upcoming important collection-related milestones that may affect how collection services are administered include:

- Council to review the merits of implementing a 2 bag limit (from the current 3).

In 2010, the total net annual recycling cost to the Town was $170,640.00. This amounts to $280.19 per tonne, or $46.75 per capita. As shown in Table 7.4, the Town's net annual recycling costs are below average for its WDO municipal grouping.

Table 7.4: Net Recycling Cost (per tonne per year)	
Blind River	$280.19
Rural Collection – North	$508.83

Anticipated Future Waste Management Needs

The Town's solid waste generation rate is expected to remain fairly constant over the next 10 year planning period. Table 7.5 depicts the expected growth rates for solid waste generation and blue box material recovery (based on projected population growth rates).

Table 7.5: Anticipated Future Solid Waste Generation Rates and Available Blue Box Material

	Current Year	Current Year + 5	Current Year + 10
Population	3,650	3,606	3,585
Total Waste (tonnes)	4,928.28	4,868.86	4,840.50
Blue Box Material Available (tonnes)	1,172.93	1,158.79	1,152.04

8. Planned Recycling System

Overview of Planned Initiatives

The Town reviewed a number of options for consideration in its WRS. The options were then scored based on a series of criteria, which included:

1. Percentage of waste diverted from landfill (will the strategy decrease the current volume to waste directed to landfill?);
2. Proven results (is the strategy a best practice recognized by WDO?);
3. Reliable market / end use (will the strategy capture materials that have an established end market?);
4. Economically feasible (will the strategy be cost-effective?);
5. Accessible to the public (will the strategy be accepted/understood by the public?); and,
6. Ease of implementation (will the strategy be easily implemented with existing programs?).

A summary of the options reviewed and their scoring are provided in Appendix D.

Once scored, the top ranking WRS options were organized into Priority Initiatives (scoring 70% and greater) and Future Initiatives (scoring 60% to 69%), as shown in Appendix D. Strategies that were felt to be inappropriate scored less than 60% and are denoted in Appendix D with an "X". The current-day cost associated with the priority initiatives is estimated to be approximately $23,300.00, while cost associated with the future initiatives is estimated at $42,200.00.

Table 8.1 presents the Priority Initiatives and Future Initiatives and their estimated costs. A review of these initiatives and their steps for implementation are summarized on the following pages.

Table 8.1: Priority and Future Initiatives		
Initiatives	**Implementation Costs**	**Operation Costs**
Priority Initiatives		
Public Education and Promotion Program	$7,300.00	$2,400.00
Training of Key Program Staff	n/a	$2,500.00
Bag Limits/Increase Materials Diverted	n/a	covered in education program
Provision of Free Blue Boxes	$6,100.00	$0.00
Assess Tools and Methods to Maximize Diversion	$5,000.00	n/a
Following Generally Accepted Principles for Effective Procurement and Contract Management	$0.00	n/a
Estimated Total Cost (Priority Initiatives)	$18,400.00	$4,900.00
Future Initiatives		
Optimization of Collection Operations	$10,000.00	$10,000.00
Enhancement of Recycling Depots	$7,300.00	$4,900.00
Multi-Municipal Collection and Processing of Recyclables	$5,000.00	ability to share services currently not known
Standardized Service Levels and Collaborative Recyclables	$5,000.00	extent of possible standardization currently not known
Estimated Total Cost (Future Initiatives)	$27,300.00	$14,900.00

8.1 Priority Initiatives

Initiative 1: Public Education and Promotion Program (Fundamental Best Practice)

Overview

Public education and promotion programs are crucial for ensuring the success of local recycling programs. Well-designed and implemented education and promotion programs can have impacts throughout the municipal recycling program, including participation, collection, processing, and marketing of materials. Furthermore, having a P&E plan contributes toward the amount of WDO funding a municipality receives as identified in best practice section of the WDO municipal datacall. For example, benefits of public education and promotion programs include:

1. Greater participation levels and community involvement;
2. Higher diversion rates;
3. Less contamination in recovered materials, potentially leading to higher revenues; and,
4. Lower residue rates at recycling facilities.

The WRS Guidebook describes that an enhanced communication and outreach program goes beyond the static use of brochures and online information. It establishes a dialogue between the municipality and the program user to assess barriers to participation and determine opportunities for improvement. An enhanced communication and outreach program might include:

1. Face-to-face contact to promote specific programs, possibly at community events or by going door-to-door;
2. Using neighbourhood champions or community leaders teach others or to lead by example (e.g., backyard composting);
3. Interactive on-line waste forums and feedback forms; and,
4. Community-based social marketing, among other things.

Stewardship Ontario has prepared a Recycling Program Promotion and Education Workbook and other materials, which are available on Stewardship Ontario's Recyclers' Knowledge Network (www.stewardshipontario.ca).

Implementation

Implementation steps include:

1. Prepare communication strategy, including target audience, key messages, message mediums (e.g., brochure, website);
2. Develop a distribution plan;
3. Prepare budget;
4. Draft copy and prepare graphic design; and,

5. Roll-out communications.

The Town intends to implement this strategy, pending Council approval to do so, by early to mid 2012.

Initiative 2: Training of Key Program Staff (Fundamental Best Practice)

Overview

A well-trained staff can lead to greater cost and time efficiencies and improved customer service. Knowledgeable staff (including both front-line staff and policy makers) have a greater understanding of their municipal programs and can perform their responsibilities more effectively. There are a number of low-cost training options available.

The CIF holds periodic Ontario Recycler Workshops that discuss recycling program updates (www.wdo.ca/cif/initiatives/orw.html). The MWA, Waste Diversion Ontario (WDO), the association of Municipalities of Ontario (AMO), Stewardship Ontario and the Solid Waste Association of Ontario (SWANA) can also be sources of information guides, workshops, or training on recycling or solid waste management.

Examples of skills and expertise that program coordinators and staff require, include:

1. Recycling program planning development, evaluation, and continuous improvement;
2. Recycling services procurement and contract administration;
3. Use of policy mechanisms to promote waste diversion and recycling, and promotion and education; and,
4. Operations planning and management.

It is also beneficial that front-line personnel (eg. waste disposal site gate attendant) possess the skills and expertise to: ensure compliance with Bylaws and Regulations; identify acceptable waste materials (eg. re-direct materials that can be diverted); and, ensure proper and compliant operation of the site.

Implementation

Pending Council approval to do so, the Town intends to begin implementation of this strategy in 2012. Training will be conducted periodically on an on-going basis.

Initiative 3: Bag Limits/Increase Materials Diverted (Fundamental Best Practice)

Overview

Bag limits restrict the number of bags of garbage a resident can dispose of per collection. This encourages residents to divert more recyclable materials in order to not exceed the

bag limit. These programs are usually implemented in conjunction with improved diversion opportunities.

Bag limits can also be used in conjunction with bag tags (e.g., user fees). For example, some municipalities allow residents to dispose of a number of bags for free, with additional bags requiring a purchased bag tag.

Implementation

The Town implemented a 3 bag limit on January 1, 2011 and Council has committed to review the effectiveness of this strategy and the potential to move to a 2 bag limit. It is suggested in the WRS Guidebook that, without a kitchen organics program, that a weekly bag limit of 3 is appropriate.

Initiative 4: Provision of Free Blue Boxes

Overview

Providing free blue boxes helps to ensure that residents have sufficient storage capacity for recyclables. While this is initially done at the roll-out of the blue box program, many municipalities offer free boxes to new residents or residents moving into new homes. Some municipalities also offer one extra free box or bin for residents per year. However, in municipalities offering only basic recycling services, one blue box container may be sufficient.

Implementation

Pending Council approval to do so, this strategy will be implemented by mid to late 2012.

Initiative 5: Assess Tools and Methods to Maximize Diversion

Overview

Waste recycling programs fail or succeed based on their ability to overcome public barriers to participation. Additional research on the appropriate tools and methods can help how best to maximize opportunities to divert Blue Box materials from the waste stream and reduce waste going to disposal. Possible topics may include:

1. The types of waste diversion behaviours currently undertaken in each household;
2. Perceived barriers to participation in waste diversion programs;
3. Willingness to participate in waste recycling programs;
4. How residents receive information or learn about local waste recycling programs; and,
5. The tools residents need to increase their participation in recycling programs.

This information can be collected through telephone surveys and focus groups. Methods and tools identified through the survey can be tested for performance using focus groups or through a pilot project.

Implementation

Pending Council approval to do so, this strategy will be implemented in 2012.

Initiative 6: Following Generally Accepted Principles for Effective Procurement and Contract Management (Fundamental Best Practice)

Overview

A considerable number of municipalities in Ontario contract out the collection and processing of recyclables. To ensure that municipalities obtain good value for money, Municipalities should follow generally accepted principles (GAP) for effective procurement and contract management. Key aspects of GAP include planning the procurement well in advance, issuing clear RFPs, obtaining competitive bids, and including performance-based incentives.

Implementation

A 6 Step approach to implement this strategy is presented in the WRS Guidebook, as follows:

Step 1: Precisely define services to be contracted;
Step 2: Determine contractor pool and your market position;
Step 3: Prepare a detailed, unambiguous RFP or Tender;
Step 4: Employ a fair and transparent contractor selection process;
Step 5: Negotiate a partnership-oriented contract; and,
Step 6: Maintain partnership approach in contract administration and monitoring through entire contract term.

Pending receipt of Council approval to do so, this strategy will be implemented to procure the next waste and recyclables collection contracts (in 2014).

8.2 Future Initiatives

Initiative 1: Optimization of Collection Operations (Fundamental Best Practice)

Overview

The purpose of optimizing collection operations is to collect more recyclables using fewer financial, capital and human resources. This requires critically assessing both collection and processing operations (as the two are closely linked) and making changes

that reduce costs while at the same time increases capture of blue box materials. The relevant options for optimization vary according to the size, composition and location of municipalities, as well as their available processing options.

Implementation

Pending Council approval to do so, this strategy will be implemented in late 2012 or early 2013.

Initiative 2: Enhancement of Recycling Depots

Overview

Where curbside collection programs are not feasible, recycling depots provide an inexpensive means for municipalities to divert recyclable materials from disposal. Enhancements to recycling depots may include (but are not limited to):

1. Providing satellite depots to improve public access and convenience;
2. Enhancing the conditions at the landfill depot (e.g., landscaping, general cleanliness, maintenance);
3. Incorporating friendly, easy-to-read signage; and,
4. Providing additional part-time staff to address seasonal fluctuations and visiting traffic.

Implementation

The Town recycling depot is currently situated on private property and is owned and operated by the recycling contractor. Town Council, through the Ecological Resources Committee, is considering options to improve access and conditions at the depot. This strategy is currently being implemented (review to identify possible improvements). Following review, improvements may be made pending Council approval.

Initiative 3: Multi-Municipal Collection and Processing of Recyclables (Fundamental Best Practice)

Overview

Small and medium-sized municipalities often face considerable cost and capital challenges when looking to collect and process recyclables from its residents. However, working collaboratively with other municipalities to provide these services can increase economies of scale and allow for the sharing of resources.

Co-operative recycling activities may involve establishing individual contracts that align with activities and services neighbouring municipalities may already be providing. It is possible to begin a co-operative planning process by synchronizing the expiry dates of municipal contracts so that contractors may bid on multiple contracts simultaneously.

Implementation

The WRS Guidebook advises that municipalities should follow the following seven steps when implementing this strategy:

1. Indentify service needs of each potential co-operating jurisdiction;
2. Identify and communicate advantages to working co-operatively;
3. Identify and implement communication and working protocols among potential co-operating municipalities (a steering committee of task group may be required);
4. Determine and document clearly how the multi-municipal program will be funded, using financial projections and a business plan;
5. Identify the governance strategies for providing for accountability, monitoring, and decision-making authority to participating jurisdictions. These may include a utility-type board, a sub-committee of municipal representatives, a municipal corporation, or a combination of the above;
6. Identify costs (and cost savings) associated with the co-operative program, using financial projections and business plan from Step 4; and,
7. Test multi-municipal strategies in low-risk circumstances, such as a joint advertising, container purchasing, promotion and education, etc., and build on successes of such efforts.

Implementation of this strategy may be initiated following Council review.

Initiative 4: Standardized Service Levels and Collaborative Recyclables

Overview

Collaborative haulage contracts for blue box materials can take advantage of increased purchasing power through municipal partnerships and ensures that the partner municipalities provide common levels of services to its residents. Standardizing collection programs among municipal partners increases the amount of materials being diverted from disposal, allows for common education and promotion materials, increases collector efficiencies, and can potentially reduce overall costs.

Implementation

Implementation steps and timing of this strategy would coincide with Future Initiative 3.

8.3 Contingencies

Implementation plans can be delayed by a variety of foreseen and unforeseen circumstances. Predicting and including contingencies can help to ensure that these risks are managed for minimum delay. Table 8.2 identifies contingencies for possible planning delays.

Table 8.2: Waste Recycling Strategy Contingencies	
Risk	**Contingency**
Insufficient funding	Explore and apply for other funding sources
	Delay lower-priority initiatives
Public opposition to planned recycling initiatives	Improve public communications
	Engage community/stakcholders to discuss initiatives/recycling plan
Lack of available staff	Prioritize department/municipal goals and initiatives
	Utilize consultants where required
Permit/Approvals requirements	Identify permit and approvals requirements early on in process

9. Monitoring and Reporting

The monitoring and reporting of Blind River's recycling program is considered a Blue Box program fundamental best practice and will be a key component of this WRS. Once implementation of the strategy begins, the performance of the WRS will be monitored and measured against the baseline established for the current system. This will include a baseline survey of set-out rates. Once the results are measured, they will be reported to Council and the public.

The approach for monitoring the Municipality's waste recycling program is outlined in Table 9.1.

Table 9.1: Recycling System Monitoring		
Monitoring Topic	**Monitoring Tool**	**Frequency**
Total waste generated (by type and by weight)	Measuring of wastes and recyclables collected.(e.g. contractor records).	Monthly
Diversion rates achieved (by type and by weight)	Formula: (Blue box materials + other diversion) ÷ Total waste generated * 100%.	Monthly
Waste disposed (by volume)	Measuring of wastes at the disposal site (e.g. topographic survey)	Annually
Program participation	Customer survey, monitoring set-out rates	Every 1 to 3 years
Customer satisfaction	Customer survey, tracking calls/complaints received to the	Every 1 to 3 years

Table 9.1: Recycling System Monitoring		
Monitoring Topic	**Monitoring Tool**	**Frequency**
	municipal office	
Opportunities for improvement	Customer survey, tracking calls/complaints received to the municipal office	Ongoing
Planning activities	Describe what initiatives have been fully or partially implemented, what will be done in the future	Annually
Review of Recycling Plan	A periodic review of the Recycling Plan to monitor and report on progress, to ensure that the selected initiatives are being implemented, and to move forward with continuous improvement	Every 3 to 5 years

10. Conclusion

Through completion of this WRS, the Town of Blind River is committed to a process of continuous improvement, as budget allows, in order to maximize the volume of material diverted from disposal in a feasible manner.

In order to improve the current systems, the Town will implement a number of priority initiatives spanning the next 3 years, including:

1. A promotion and education program;
2. Training of key program staff;
3. Bag limits / increase materials diverted;
4. Provision of free blue boxes;
5. Access tools and methods to maximize diversion; and,
6. Following generally accepted principles for effective procurement and contract management.

Additional initiatives of lower priority may also be implemented by the Town in the future.

The effectiveness of the initiatives implemented will be monitored to identify opportunities for improvement of specific programs as well as the WRS.

This WRS is considered a living document and success and lessons learned from the various initiatives implemented will be considered on a regular basis as they may affect the subsequent implementation of other initiatives.

APPENDIX A:

SEPTEMBER 2011 OPEN HOUSE PRESENTATION BOARDS

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

PUBLIC OPEN HOUSE #2

BACKGROUND AND PROBLEM STATEMENT

1. Historically, waste has been deposited outside the approved fill area at the landfill. The MOE requires that this be addressed by the Town.

2. The remaining capacity of the approved fill area is estimated to be less than 6 years.

3. Given the above, the Town initiated the Environmental Assessment (EA) Planning Process to develop a long-term waste management plan (WMP).

4. The EA is being prepared in accordance with a Terms of Reference approved by the Minister of the Environment in 2008.

5. The EA Planning Process will address the non-hazardous residential, industrial, commercial and institutional (IC&I), construction and demolition (C&D), biosolid and iron sludge wastes currently being disposed of at the Municipal landfill site. Household hazardous waste will also be considered.

6. The proposed planning period will range from 25 to 40 years (or other duration) depending on the preferences identified during the EA Planning Process.

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

EXISTING WASTE MANAGEMENT SYSTEM

1. The collection of waste and recyclables is currently administered by a private sector service provider.

2. Waste is collected from residential households weekly (max 3 bags without tags) and twice weekly from the IC&I sector. Dumpsters located throughout the municipality are also collected on a regular basis.

3. Residential recycling pickup occurs every second week and commercial recycling pickup occurs weekly.

4. The Town's Blue Box recycling program includes the collection of newsprint, magazines, catalogues, household papers, corrugated cardboard, boxboard, glass bottles/jars, steel and aluminum cans and plastics numbered 1 through 6.

5. Monthly bulk item pick-up - including furniture, fridges, stoves, washers and dryers, etc.

6. Direct-haul disposal is allowed on days when the landfill site is open.

7. Tires, scrap metals and white goods are stockpiled at the landfill site for recycling/diversion.

8. Household hazardous wastes including corrosive, toxic, reactive and flammable wastes are collected by a qualified contractor on Household Hazardous Waste Days (HHWD) scheduled by the Town.

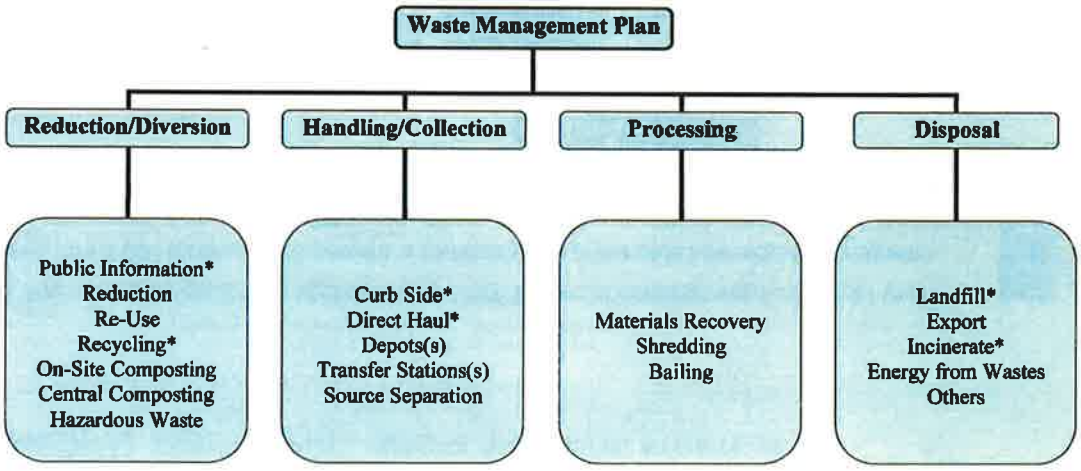
TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

IDENTIFICATION OF WASTE MANAGEMENT PLAN COMPONENTS

1. A WMP is comprised of several key components that may be categorized according to general functions.

2. Several programs exist within each component. Which program(s) are eventually adopted depends on considerations such as environmental impacts as well as the community's ability to operate, maintain and manage alternatives with varying complexities.

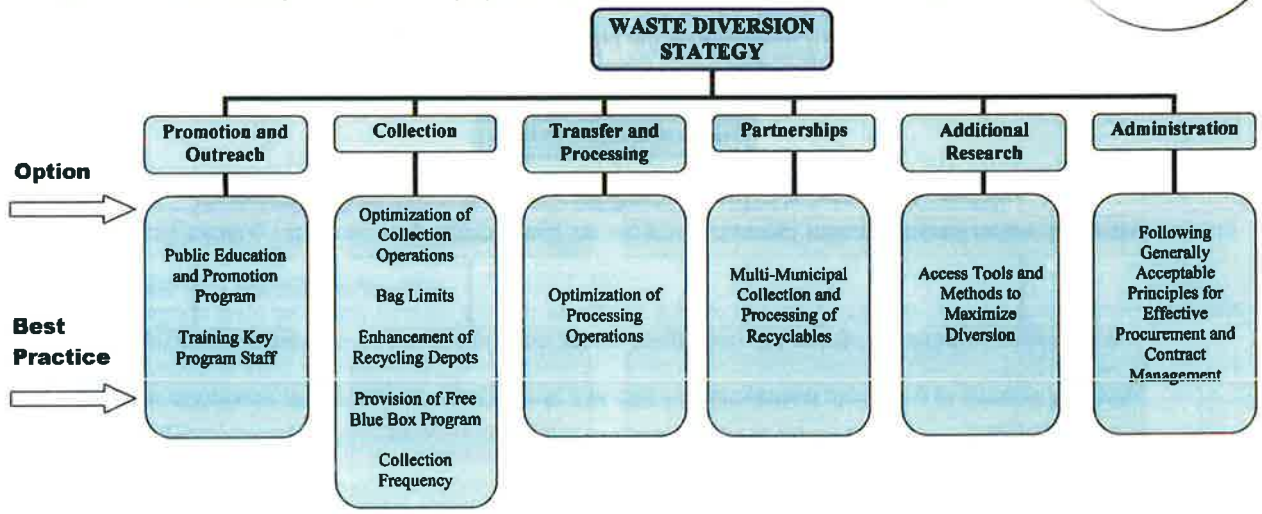
3. The Town's existing WMP currently incorporates the programs denoted with an asterisk below. Programs that are part of the existing WMP will remain in-place with consideration given to their enhancement.



TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

WASTE REDUCTION / DIVERSION STATEGY

1. The Town currently generates approximately 5,000 tonnes of domestic solid waste per year.
2. Of this, about 600 tonnes, or 12 percent is diverted through the blue box/recycling program.
3. The most common material recycled is old corrugated cardboard, the least common is glass.
4. The diversion rate may be increased by optimizing the current waste diversion strategy.



BLIND RIVER
ONTARIO CANADA

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

WASTE REDUCTION / DIVERSION STATEGY

GOALS	OBJECTIVES
To maximize diversion of residential/municipal solid waste through the blue box/recycling program	• Divert 17% of municipal solid waste through the blue box/recycling program
To maximize capture rates of blue box materials through existing and future programs	• Capture 70% of blue box materials • Increase capture of blue box municipal solid waste by 18% within 3 years
To increase participation in the recycling program	• Make recycling services available to 90% of residents • Increase recyclable types collected
To expand the lifetime of the landfill	• Add 5 years to the lifespan of the landfill by increasing blue box diversion
To manage our waste in the community or as close to home as possible	• Dispose of all locally generated waste within municipal borders

Waste Recycling Strategies need to present cost effective, socially acceptable, and environmentally sound practices appropriate to the needs of the community and should consider the following principles:

- Maximized diversion of Blue Box materials;
- Innovation and Best Practices;
- Realistic long term planning;
- Flexibility and adaptability;
- Appropriate technological solutions;
- Maximized cost savings by contracting out services;
- Multi-municipal ventures where feasible; and
- Public consultation in an open and transparent planning process.

~ *Guidebook for Creating a Municipal Waste Recycling Strategy*

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

SCREENING OF STRATEGY OPTIONS

	Option/Best Practices	Criteria (Score out of 3)						Total Criteria Score
		% Waste Diverted	Proven Results	Reliable Market/End Use	Economically Feasible	Accessible to Public	Ease of Implementation	
PROMOTION AND OUTREACH								
P	Public Education and Promotion Program	2	3	2	2	3	2	14/18 = 78%
P	Training of Key Program Staff	1	3	2	2	NA	3	11/15 = 73%
COLLECTION								
F	Optimization of Collection Operations	1	2	2	2	NA	2	9/15 = 60%
P	Bag Limits/Increase Materials Diverted	3	3	2	3	2	2	15/18 = 83%
F	Enhancement of Recycling Depots	1	2	2	2	3	2	12/18 = 67%
P	Provision of Free Blue Boxes	1	2	NA	2	3	3	11/18 = 73%
X	Collection Frequency	1	1	NA	2	3	3	10/18 = 56%
TRANSFER AND PROCESSING								
X	Optimization of Processing Operations	Municipality contracts of the processing of blue box material						
NA – Not Applicable								

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

SCREENING OF STRATEGY OPTIONS

	Option/Best Practices	Criteria (Score out of 3)						Total Criteria Score
		% Waste Diverted	Proven Results	Reliable Market/End Use	Economically Feasible	Accessible to Public	Ease of Implementation	
PARTNERSHIPS								
F	Multi-Municipal Collection and Processing of Recyclables	1	2	2	2	3	2	12/18 = 67%
F	Standardized Service Levels and Collaborative Recyclables	1	2	2	2	3	2	12/18 = 67%
X	Intra-Municipal Committee	1	2	1	2	2	2	10/18 = 56%
ADDITIONAL RESEARCH								
P	Access Tools and Methods to Maximize Diversions	3	3	2	2	3	2	15/18 = 83%
ADMINISTRATION								
P	Following Generally Accepted Principles for Effective Procurement and Contract Management	2	3	2	3	1	3	14/18 = 78%

TOWN OF BLIND RIVER WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT – WASTE DIVERSION STRATEGY

NEXT STEPS IN THE PROCESS

1. The purpose of this Open House was to present information relating to Alternative Waste Management and Diversion Systems to interested residents and to provide the opportunity for input into the process.

2. Options/best practices scoring 70-100% will be considered as Priority Initiatives while options scoring 60-69% will be considered as possible Future Initiatives. These initiatives as well as their steps for implementation will be further reviewed as part of the Town's Municipal Waste Diversion Strategy.

3. A Task 2 summary report will be prepared to document Task activities and findings as well as comments and input received during this Open House,

4. Task 3 of the EA Planning Process ("Implement Diversion Strategy") will be initiated/documented in accordance with the Waste Diversion Strategy.

APPENDIX B:

SEPTEMBER 2011 OPEN HOUSE COMMENTS

0508.05
Sept 13/11
-copy to 4856.01

Town of Blind River
Municipal Waste Management Plan - Environmental Assessment
Waste Diversion Strategy

PUBLIC OPEN HOUSE #2
COMMENT SHEET

I/We have reviewed the project material and have the following comments:

It is good to have all this information on waste management available. We all have to recognize the urgency of disposing of waste in a more environmentally conscious way. A long term waste management plan is essential. I'd really like to be able to compost centrally - yard waste + organic matter are plentiful.

Thank you for your comment(s). Please complete the following if you would like to be contacted for clarification, or if you wish to be added to the project Mailing List.

Sister TRINA BOTTOS
Name (print)

117 Rousseau Crescent
Address

705-356-7610
Phone No.

csjtrina@onteora.net
Email Address

Please leave the completed form with a representative of the Town or the Consultant or deliver or mail to:

Kresin Engineering Corporation
536 Fourth Line East
Sault Ste. Marie, Ontario
P6A 5K8

0508-05
Sept 13/11

Town of Blind River
Municipal Waste Management Plan - Environmental Assessment
Waste Diversion Strategy

PUBLIC OPEN HOUSE #2
COMMENT SHEET

I/We have reviewed the project material and have the following comments:

I gained some knowledge about the overall plan. It is a lot to absorb for me even though I am on the committee.

I liked the way the information was laid out in Managable Sections

Thank you for your comment(s). Please complete the following if you would like to be contacted for clarification, or if you wish to be added to the project Mailing List.

Dolly Pigeon
Name (print)

B. R
Address

705-356-7763
Phone No.

Seniorpigeon@hotmail.com
Email Address

Please leave the completed form with a representative of the Town or the Consultant or deliver or mail to:

Kresin Engineering Corporation
536 Fourth Line East
Sault Ste. Marie, Ontario
P6A 5K8

APPENDIX C:

CHAMBER OF COMMERCE SURVEY RESPONSES

1136.01

Chris Kresin

From: Sandra Walker [chamber@blindriver.com]
Sent: Monday, April 09, 2012 11:10 AM
To: 'Chris Kresin'
Subject: FW: Waste Recycling Strategy Questionnaire

Importance: High

Hi Kris:

)

Please accept this email with the completed questionnaire survey that was sent to my email. It is late getting to you because I was away from the office for a month and just got back to work today.

Thank you,

Sandra Walker
Business Services Coordinator
Blind River Chamber of Commerce
Bus: 705-356-2555
Fax: 705-356-3911
e-mail: chamber@blindriver.com
www.brchamber.ca

From: Karin Pilon [mailto:Karin_Pilon@cameco.com]
Sent: Tuesday, March 20, 2012 9:29 AM
To: Sandra Walker
Cc: Laurie Cassidy; Chris Astles
Subject: FW: Waste Recycling Strategy Questionnaire

As requested, below is the questionnaire completed by Laurie Cassidy, our Senior Environmental Coordinator.
Thank you,
Karin

Karin Pilon
Support Services Administrator
Cameco Corporation
P.O. Box 1539, Blind River, Ont. P0R 1B0
p: 705-356-1496 ext. 3219 f: 705-356-4059
e-mail: karin_pilon@cameco.com

From: Laurie Cassidy
Sent: Friday, February 17, 2012 9:09 AM
To: Karin Pilon
Subject: FW: Waste Recycling Strategy Questionnaire

Town of Blind River

MUNICIPAL WASTE MANAGEMENT PLAN ENVIRONMENTAL ASSESSMENT
WASTE RECYCLING STRATEGY QUESTIONNAIRE - COMMERCIAL

A. WASTE QUANTITY

1. How much waste do you direct to the municipal landfill site in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   16 (6 yard) bins/week

2. How much waste do you divert/recycle in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   2 (6 yard) bins/week

3. Do you expect that this amount will increase or decrease in the next 2 years?

   Increase Decrease [redacted]

B. WASTE TYPE

4. Please indicate the types of waste produced by your organization, and estimate proportions.

   a) Construction/Demolition (i.e. shingles, drywall, flooring, etc.) 5%
   b) Metals (i.e. appliances, drums, rims, cars, etc.) 1 %
   c) Metals (i.e. pop cans, tins) 1 %
   d) Tires (i.e. passenger, vehicle, ATV, etc.) 0 %
   e) Clean wood waste (i.e. pallets, brush) 0 %
   f) Septic Tank Waste/Sludge 0 %
   g) Paper/Cardboard 25 %
   h) Glass 1 %

i) Plastics 7 %

j) Food Wastes 0%

k) Other Wastes 60 %

Please Give Examples of ("Other Wastes"):

Iron sludge

C. WASTE RECYCLING

5. What types of recyclables does your organization produce (eg: cardboard, paper, cans, glass, plastics)?
   Cardboard, paper, cans, glass and plastic

6. What types of materials does your organization currently recycle (eg: cardboard, paper, cans, glass, plastics)?
   Cardboard, paper, glass, plastics
   Cans are forwarded to the local animal shelter.

7. What types of materials would your organization consider recycling if possible?

   More types of plastics.

8. How can the current recycling program be improved (please use space on next page if required)?

   Expand to include Styrofoam and bubble wrap

PLEASE PROVIDE ANY RELATED COMMENTS OR CONCERNS BELOW:

Should you have any questions regarding this questionnaire, the WRS or the EA, please contact me,

Thanks,

Chris

Chris Kresin, M.Sc.(Eng.), P.Eng.
Consulting Engineer

Kresin Engineering Corporation

536 Fourth Line East, Sault Ste. Marie, ON, P6A 5K8
tel: 705-949-4900, fax: 705-949-9965

The Town of Blind River is developing a Waste Recycling Strategy (WRS) as a component of an Environmental Assessment (EA) being completed in accordance with the EA Act to address the declining capacity at the Town's waste disposal site. The purpose of the WRS is to develop a plan to increase the efficiency and effectiveness of Town's recycling program and to maximize the amount of blue box material diverted from the waste disposal site.

Once the EA is completed, the resulting municipal waste management plan will address capacity for up to the next 40 years.

To assist with the process, would you please take a few moments to complete the brief questionnaire below by responding to this email and responding to the 8 questions below.

Thanks very much for your participation.

BLIND RIVER
ONTARIO, CANADA

Town of Blind River

MUNICIPAL WASTE MANAGEMENT PLAN ENVIRONMENTAL ASSESSMENT
WASTE RECYCLING STRATEGY QUESTIONNAIRE - COMMERCIAL

A. WASTE QUANTITY

1. How much waste do you direct to the municipal landfill site in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   1

2. How much waste do you divert/recycle in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   0

3. Do you expect that this amount will increase or decrease in the next 2 years?

2/15/2012

8. How can the current recycling program be improved (please use space on next page if required)?

most of our paper is professionally shredded

PLEASE PROVIDE ANY RELATED COMMENTS OR CONCERNS BELOW:

Should you have any questions regarding this questionnaire, the WRS or the EA, please contact me,

Thanks.

Chris

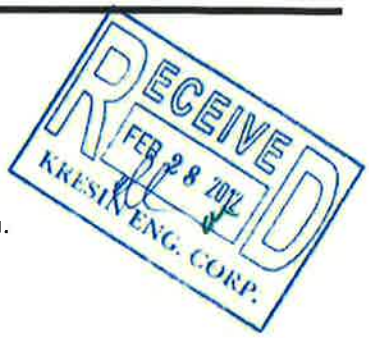
Chris Kresin, M.Sc.(Eng.), P.Eng.
Consulting Engineer

Kresin Engineering Corporation
536 Fourth Line East, Sault Ste. Marie, ON, P6A 5K8
tel. 705-949-4900, fax: 705-949-9965

2/15/2012

1136.01

Eva Walls



From: John Thomas [jthomas@kjbeamish.ca]
Sent: Tuesday, February 28, 2012 8:20 AM
To: info@kresinengineering.ca
Subject: FW: Waste Recycling Strategy Questionnaire

K.J. Beamish Const. Co. Ltd. produces a minimal amount of garbage in the Blind River area.

John K. Thomas
Vice President
K.J. Beamish Construction Co; Ltd.

From: Kresin Engineering Corporation [mailto:info@kresninengineering.ca]
Sent: February 14, 2012 4:32 PM
To: info@kresinengineering.ca
Subject: Waste Recycling Strategy Questionnaire

Hello Blind River Chamber of Commerce Members:

The Town of Blind River is developing a Waste Recycling Strategy (WRS) as a component of an Environmental Assessment (EA) being completed in accordance with the EA Act to address the declining capacity at the Town's waste disposal site. The purpose of the WRS is to develop a plan to increase the efficiency and effectiveness of Town's recycling program and to maximize the amount of blue box material diverted from the waste disposal site.

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To assist with the process, would you please take a few moments to complete the brief questionnaire below by responding to this email and responding to the 8 questions below.

Thanks very much for your participation.

BLIND RIVER
ONTARIO. CANADA

Town of Blind River

MUNICIPAL WASTE MANAGEMENT PLAN ENVIRONMENTAL ASSESSMENT
WASTE RECYCLING STRATEGY QUESTIONNAIRE - COMMERCIAL

A. WASTE QUANTITY

1. How much waste do you direct to the municipal landfill site in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   ___

2. How much waste do you divert/recycle in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   ___

3. Do you expect that this amount will increase or decrease in the next 2 years?

   Increase Decrease Stable

B. WASTE TYPE

4. Please indicate the types of waste produced by your organization, and estimate proportions.

   a) Construction/Demolition (i.e. shingles, drywall, flooring, etc.) ___%
   b) Metals (i.e. appliances, drums, rims, cars, etc.) ___%
   c) Metals (i.e. pop cans, tins) ___%
   d) Tires (i.e. passenger, vehicle, ATV, etc.) ___%
   e) Clean wood waste (i.e. pallets, brush) ___%
   f) Septic Tank Waste/Sludge ___%
   g) Paper/Cardboard ___%
   h) Glass ___%
   i) Plastics ___%
   j) Food Wastes ___%
   k) Other Wastes ___%

   Please Give Examples of ("Other Wastes"):

C. WASTE RECYCLING

5. What types of recyclables does your organization produce (eg: cardboard, paper, cans, glass, plastics)?

6. What types of materials does your organization currently recycle (eg: cardboard, paper, cans, glass, plastics)?

7. What types of materials would your organization consider recycling if possible?

8. How can the current recycling program be improved (please use space on next page if required)?

PLEASE PROVIDE ANY RELATED COMMENTS OR CONCERNS BELOW:

Should you have any questions regarding this questionnaire, the WRS or the EA, please contact me,

Thanks,

Chris

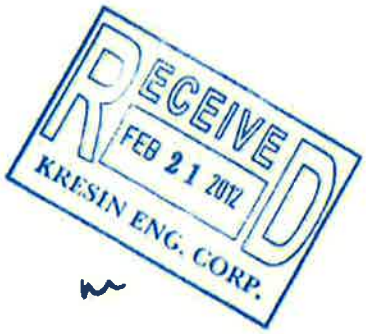
Chris Kresin, M.Sc.(Eng.), P.Eng.
Consulting Engineer

Kresin Engineering Corporation
536 Fourth Line East, Sault Ste. Marie, ON, P6A 5K8
tel: 705-949-4900, fax: 705-949-9965

1136.01
Questionnaire
Responses

Eva Walls

From: Blind River Development Corporation [infobrdc@blindriver.ca]
Sent: Tuesday, February 21, 2012 8:27 AM
To: info@kresinengineering.ca
Subject: FW: Waste Recycling Strategy Questionnaire
Attachments: image003.jpg



From: Blind River Development Corporation [mailto:infobrdc@blindriver.ca]
nt: February-15-12 12:08 PM
To: Kresin Engineering Corporation
Subject: RE: Waste Recycling Strategy Questionnaire

Betty Ann Dunbar
Office Adminisrator
Blind River Development Corporation
11c Hanes Ave.
Blind River, ON P0R 1B0
Ph: 705 356-5715 Ext. 221
Fax: 705 356-5720
Toll Free: 1 866-487-9495
infobrdc@blindriver.ca

m: Kresin Engineering Corporation [mailto:info@kresninengineering.ca]
sent: February-14-12 4:32 PM
To: info@kresinengineering.ca
Subject: Waste Recycling Strategy Questionnaire

Hello Blind River Chamber of Commerce Members:

The Town of Blind River is developing a Waste Recycling Strategy (WRS) as a component of an Environmental Assessment (EA) being completed in accordance with the EA Act to address the declining capacity at the Town's waste disposal site. The purpose of the WRS is to develop a plan to increase the efficiency and effectiveness of Town's recycling program and to maximize the amount of blue box material diverted from the waste disposal site.

Once the EA is completed, the resulting municipal waste management plan will address capacity for up to the next 40 years.

To assist with the process, would you please take a few moments to complete the brief questionnaire below by responding to this email and responding to the 8 questions below.

Thanks very much for your participation.

BLIND RIVER
ONTARIO. CANADA

Town of Blind River

MUNICIPAL WASTE MANAGEMENT PLAN ENVIRONMENTAL ASSESSMENT
WASTE RECYCLING STRATEGY QUESTIONNAIRE - COMMERCIAL

A. WASTE QUANTITY

1. How much waste do you direct to the municipal landfill site in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   1 bag

2. How much waste do you divert/recycle in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   2 recycle boxes

3. Do you expect that this amount will increase or decrease in the next 2 years?

   Increase Decrease X Stable

B. WASTE TYPE

4. Please indicate the types of waste produced by your organization, and estimate proportions.

   a) Construction/Demolition (i.e. shingles, drywall, flooring, etc.) 0 %
   b) Metals (i.e. appliances, drums, rims, cars, etc.) 0 %
   c) Metals (i.e. pop cans, tins) 0 %
   d) Tires (i.e. passenger, vehicle, ATV, etc.) 0 %
   e) Clean wood waste (i.e. pallets, brush) 0 %
   f) Septic Tank Waste/Sludge 0 %
   g) Paper/Cardboard 90 %
   h) Glass 4 %

i) Plastics 4 %

j) Food Wastes 2 %

k) Other Wastes 0 %

Please Give Examples of ("Other Wastes"):

C. WASTE RECYCLING

5. What types of recyclables does your organization produce (eg: cardboard, paper, cans, glass, plastics)?

   Cardboard, paper, and plastics

6. What types of materials does your organization currently recycle (eg: cardboard, paper, cans, glass, plastics)?

   All of the above

7. What types of materials would your organization consider recycling if possible?

   Don't know

8. How can the current recycling program be improved (please use space on next page if required)?

   As a business we are satisfied with the program

PLEASE PROVIDE ANY RELATED COMMENTS OR CONCERNS BELOW:

Should you have any questions regarding this questionnaire, the WRS or the EA, please contact me,

Thanks,

Chris

Chris Kresin, M.Sc.(Eng.), P.Eng.
Consulting Engineer

Kresin Engineering Corporation
536 Fourth Line East, Sault Ste. Marie, ON, P6A 5K8
tel: 705-949-4900, fax: 705-949-9965

1136.01

Eva Walls

From: Kim Graham [blindriver@elliotlakestandard.ca]
Sent: Wednesday, February 15, 2012 9:35 AM
To: info@kresinengineering.ca
Subject: FW: Waste Recycling Strategy Questionnaire
Attachments: image003.jpg

Survey filled out.

Kim Graham, Sales Representative
THE STANDARD
05.356-3222 Fax.356-3223
www.elliotlakestandard.ca

From: Kresin Engineering Corporation [mailto:info@kresninengineering.ca]
Sent: February 14, 2012 4:32 PM
To: info@kresinengineering.ca
Subject: Waste Recycling Strategy Questionnaire

Hello Blind River Chamber of Commerce Members:

The Town of Blind River is developing a Waste Recycling Strategy (WRS) as a component of an Environmental Assessment (EA) being completed in accordance with the EA Act to address the declining capacity at the Town's waste disposal site. The purpose of the WRS is to develop a plan to increase the efficiency and effectiveness of Town's recycling program and to maximize the amount of blue box material diverted from the waste disposal site.

nce the EA is completed, the resulting municipal waste management plan will address capacity for up to the next 40 years.

To assist with the process, would you please take a few moments to complete the brief questionnaire below by responding to this email and responding to the 8 questions below.

Thanks very much for your participation.

BLIND RIVER
ONTARIO CANADA

Town of Blind River

MUNICIPAL WASTE MANAGEMENT PLAN ENVIRONMENTAL ASSESSMENT
WASTE RECYCLING STRATEGY QUESTIONNAIRE - COMMERCIAL

A. WASTE QUANTITY

1. How much waste do you direct to the municipal landfill site in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   .25 bag

2. How much waste do you divert/recycle in an average week? Please estimate number of bags, dumpsters, half ton loads, etc.

   1 bag

3. Do you expect that this amount will increase or decrease in the next 2 years?

   Increase Decrease *Stable

B. WASTE TYPE

4. Please indicate the types of waste produced by your organization, and estimate proportions.

   a) Construction/Demolition (i.e. shingles, drywall, flooring, etc.) __%
   b) Metals (i.e. appliances, drums, rims, cars, etc.) __%
   c) Metals (i.e. pop cans, tins) __%
   d) Tires (i.e. passenger, vehicle, ATV, etc.) __%
   e) Clean wood waste (i.e. pallets, brush) __%
   f) Septic Tank Waste/Sludge __%
   g) Paper/Cardboard 98 %
   h) Glass __%
   i) Plastics __%
   j) Food Wastes 2 %
   k) Other Wastes __%

   Please Give Examples of ("Other Wastes"):

C. WASTE RECYCLING

5. What types of recyclables does your organization produce (eg: cardboard, paper, cans, glass, plastics)?

   paper

6. What types of materials does your organization currently recycle (eg: cardboard, paper, cans, glass, plastics)?

   paper

7. What types of materials would your organization consider recycling if possible?

   —

8. How can the current recycling program be improved (please use space on next page if required)?

   More marketing for top of mind awareness & education

PLEASE PROVIDE ANY RELATED COMMENTS OR CONCERNS BELOW:

Should you have any questions regarding this questionnaire, the WRS or the EA, please contact me,

Thanks,

Chris

Chris Kresin, M.Sc.(Eng.), P.Eng.
Consulting Engineer

Kresin Engineering Corporation
536 Fourth Line East, Sault Ste. Marie, ON, P6A 5K8
tel: 705-949-4900, fax: 705-949-9965

APPENDIX D:

WASTE RECYCLING OPTION SCORES

Appendix D: Waste Recycling Option Scores

Priority (P), Future (F), or N/A (X)	Description of Options/Best Practices (For more information: *More information: Blue Box Program Enhancement and Best Practices Assessment Project Final Report, Volume 1)*	Criteria (Score out of 3)						Total Criteria Score
		% Waste Diverted	Proven Results	Reliable Market/ End Use	Economically Feasible	Accessible to Public	Ease of implementation	
Promotion and Outreach								
P	**Public Education and Promotion Program**	2	3	2	2	3	2	78%
P	**Training of Key Program Staff**	1	3	2	2	n/a	3	73%
Collection								
F	**Optimization of Collection Operations**	1	2	2	2		2	60%
P	**Bag Limits**	3	3	2	3	2	2	83%
F	**Enhancement of Recycling Depots**	1	2	2	2	3	2	67%
P	**Provision of Free Blue Boxes**	1	2		2	3	3	73%
X	**Collection Frequency**	1	1		2	3	3	56%
Transfer and Processing								
X	**Optimization of Processing Operations**	N/A – this is a contracted service.						

Priority (P), Future (F), or N/A (X)	Description of Options/Best Practices (For more information: *More information: Blue Box Program Enhancement and Best Practices Assessment Project Final Report, Volume 1)*	Criteria (Score out of 3)						Total Criteria Score
		% Waste Diverted	Proven Results	Reliable Market/ End Use	Economically Feasible	Accessible to Public	Ease of implementation	
Partnerships								
F	**Multi-Municipal Collection and Processing of Recyclables**	1	2	2	2	3	2	67%
F	**Standardized Service Levels and Collaborative Haulage Contracting**	1	2	2	2	3	2	67%
X	**Intra-Municipal Committee**	1	2	1	2	2	2	56%
Additional Research								
P	**Assess Tools and Methods to Maximize Diversion**	3	3	2	2	3	2	83%
Administration								
P	**Following Generally Accepted Principles for Effective Procurement and Contract Management**	2	3	2	3	1	3	78%