A. Recommendations

THAT Council receive Staff Report CSOPS.20.060, entitled “Town Disposal Site Update”;

AND THAT Council receive the Landfill Presentation and materials contained in Attachment # 1 of this report for information purposes;

AND THAT Council approve the expenditure of $25,000 for the addition of insulation and heat to the existing leachate system to be funded by Gas Tax.

B. Overview

The purpose of this report is to request the use of funds for the addition of insulation and heat tracing to the existing leachate system at the Town’s Disposal Site. Included with this report is a presentation (Attachment 1) with an overview of the Town’s Disposal Site.

C. Background

The leachate generated at the Town Disposal Site developed significant odour and dangerous hydrogen sulphide levels in 2018. Staff installed a temporary system of aeration and chemical dosing that was somewhat effective but challenging to operate.

In 2019 Town Council approved the installation on a new leachate pre-treatment system. This system was tested on a smaller scale and was found to be successful in reducing odours and hydrogen sulphide levels, which was the source of the odour. Installation of the full scale system was competed in April of 2020. The system has proven effective at reducing odours and conforming to the performance based rental agreement with the system provider.

Now that the trial system has proven effective and is fully operational. Staff recommend continued year round use of the system. Winterization of the system was considered during the initial set-up but was not included to reduce costs prior to the full system being proven. Use of the system through the winter months will require the addition of insulation and heat tracing.
D. Analysis

This new pre-treatment system has created significant improvements over the previous system. Improvements include: reduced operating costs, eliminated odours, reduced staff time associated with treatment and remediated safety concerns. Attachment 1 on slide 9 and 11 show images of the pre-2020 system and the current system, respectively.

The trial system did not include winterization, however leachate generation does continue throughout the winter (close to half the annual volume is moved from November to March). Staff recommend that the new pre-treatment system have heat tracing and insulation installed to allow continued use of the system in the winter months.

If winterization is not added to the system pre-treatment of leachate in cold weather will not be possible. Without insulation and heating the outdoor tank system will be subject to freezing which would damage to the system and create interruptions in timely leachate haulage.

E. Strategic Priorities

1. Communications and Engagement
   We will enhance communications and engagement between Town Staff, Town residents and stakeholders.

2. Organizational Excellence
   We will continually seek out ways to improve the internal organization of Town Staff and the management of Town assets.

3. Community
   We will protect and enhance the community feel and the character of the Town, while ensuring the responsible use of resources and restoration of nature.

4. Quality of Life
   We will foster a high quality of life for full-time and part-time residents of all ages and stages, while welcoming visitors.

F. Environmental Impacts

The new pre-treatment system has eliminated hydrogen sulphide and sulphide from the leachate. These two molecules are associated with odour. Elimination of these compounds in the leachate being delivered to the Craigleith Lift Station and ultimately the Wastewater Treatment Plant has improved the air environment for residents in the area and Wastewater Staff.

The addition of insulation and heat tracing to the system will allow for continued pre-treatment in the winter and the continued elimination of odour generating compounds in the leachate.
G. **Financial Impact**

Winterization of the leachate system would be a new capital expense for 2020. The estimated cost of insulation and heat tracing for materials and installation is $25,000. This expense will be funded from Gas Tax.

H. **In Consultation With**

Sam Dinsmore, Deputy Treasurer/Manager of Accounting and Budgets  
Shawn Carey, Director of Operations  
Shawn Everitt, CAO

I. **Public Engagement**

The topic of this Staff Report has not been subject to a Public Meeting and/or a Public Information Centre as neither a Public Meeting nor a Public Information Centre are required. Comments regarding this report should be submitted to Jeffery Fletcher,  
ManagerSolidWaste@thebluemountains.ca.

J. **Attached**

1. Attachment 1 – PowerPoint Presentation of Town Disposal Site Update

Respectfully submitted,

Jeffery Fletcher  
Manager of Solid Waste and Special Projects

Shawn Carey  
Director of Operations

For more information, please contact:  
Jeffery Fletcher  
ManagerSolidWaste@thebluemountains.ca  
519-599-3131 extension 238
Town Disposal Site Update

September 29, 2020
Jeffery Fletcher, Manager of Sustainability and Solid Waste
Overview

1. History of Town Landfill
2. Leachate
3. Phase 2 Expansion
4. Infrastructure
5. Budget and Costs
6. Staffing and Operations
7. Curbside System
8. Next Steps
History of Existing Site

- Closure of Thornbury Site ~ 1976
- Site Open for landfilling in 1976 – 340,000m³
- Begin Environmental Screening for new landfill capacity – 2010
- Approval of Mining Expansion 100,000m³ and Vertical Expansion 100,000m³ - 2013
- Construction begins on Phase 1 (50%) of approved new capacity – Spring 2014
- Construction complete – Fall 2015
- Landfilling operations conducted by Town - 2016
New Cell Construction 2015
Leachate Haulage 2015

- Actual volume was 3x Anticipated volume
  - Limited waste in the cell
  - High water table and relatively wet years
  - Further investigation identified termination berm was required to limit groundwater flow

- Fast track of Forcemain design
  - Received funding for construction from Provincial level for GHG reductions
  - Funding cancelled
  - Some barriers – Cost of 3 phase power, treatability study, equalization

- Berm installed October 2017
  - continuous pumping of water away from berm
  - Reduced generation by half in 2018
# Leachate Generation

<table>
<thead>
<tr>
<th>Year</th>
<th>Cubic Metres/Millimetre</th>
<th>Total Hauled (m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>20.41</td>
<td>25,060</td>
</tr>
<tr>
<td>2017</td>
<td>17.95</td>
<td>25,458</td>
</tr>
<tr>
<td>2018</td>
<td>10.14</td>
<td>10,934</td>
</tr>
<tr>
<td>2019</td>
<td>6.85</td>
<td>8,192</td>
</tr>
<tr>
<td>2020 (Jan – Aug)</td>
<td>7.47</td>
<td>4,839</td>
</tr>
</tbody>
</table>
Odour Issue

- As waste in cell increased odour became a significant problem at lift station and Craigleith Wastewater Treatment Plant

- Various methods attempted by Staff
  - Aeration in collection system
  - Chemical addition to haulage tanks
  - Hired MTE Engineering to find solution
  - Staff developed a batch system of aeration and addition of the chemical imine
    - Worked to lower the H2S gas level to zero from over the limit of detection
Aeration System
Pre-2020
Continued to Research

- Visited other systems
- Met with Hamid Salsali of EPS – proposed to trial his technology
  - Laboratory and in-field testing
- Designed a full scale system based on lessons learned and our needs
  - Performance based contract
  - Safety
  - Capacity
  - H2S level
Odomatic System 2020 Install
### Leachate Odour Control

<table>
<thead>
<tr>
<th>Leachate Perimeter</th>
<th>H2S (Liquid phase)</th>
<th>BOD</th>
<th>COD</th>
<th>Sulphide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raw (untreated)</td>
<td>10.75</td>
<td>428</td>
<td>686</td>
<td>45</td>
</tr>
<tr>
<td>Aerated</td>
<td>0.62</td>
<td>863</td>
<td>1620</td>
<td>23</td>
</tr>
<tr>
<td>Treated</td>
<td>&lt;0.2 to &lt;0.02</td>
<td>87.5</td>
<td>622.5</td>
<td>&lt;0.2</td>
</tr>
</tbody>
</table>

- New pre-treatment system has eliminated H2S in liquid and gas phase
- Also appears to be a reduction in biological and chemical oxygen demand
- No odour complaints at lift station or Wastewater Treatment Plant related to leachate since new system installed
Treatment System Cost

- Extended Hydro installed under budget in 2019 (Budget $50,000 and final cost $47,600)

- Previous Tanker Aeration System Cost
  - $10,716/month
  - $128,600 per year

- New Treatment System Cost
  - $7,170/month
  - $86,000 per year
  - 20 cents of Hydro per m3 treated = $2,000 per year for 10,000m3

- Other Consideration
  - Automated system – no related overtime
  - Remediated worker safety concerns
  - Eliminated on-site and off-site odour
Treatment System Capacity

- Estimated Generation per year
  - 8,000 to 10,000 m³
  - Generation tied to rain/melt event

- Rate of Treatment (capacity)
  - 60 m³ per day max. with extended hours a lift station
  - 4 days a week = 12,480 m³
  - Extension of lift station hours from 4:30 pm to 6:00 pm will avoid the need for onsite storage and additional expense (second tank and pump)

- Need for winterization of system existing tank
  - Staff recommend that Council approve a 2020 capital expense of $25,000 to add insulation and heat to the existing leachate treatment system
Recommendation contained in Staff Report # CSOPS.20.060

THAT Council approve the expenditure of $25,000 for the addition of insulation and heat to the existing leachate system to be funded by Gas Tax.
Next Phase of Expansion

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
<th>2020 Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curbside Garbage Landfilled</td>
<td>1644</td>
<td>1582</td>
<td>2359</td>
</tr>
<tr>
<td>Other Landfilled (Commercial and Residential)</td>
<td>3582</td>
<td>3075</td>
<td>1516</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5226</strong></td>
<td><strong>4657</strong></td>
<td><strong>3875</strong></td>
</tr>
</tbody>
</table>

- Curbside trending up but overall waste delivered to landfill is down for 2020
- Benefit to long term capacity addition of 1.6 years, current phase capacity to 2028
- Addition of 5 years to total Site capacity, final capacity by 2050
Phasing

- Phase 1 – 100,000m³
  - to gain 50,000m³ cell
- Phase 2 – 100,000
  - To gain another 50,000m³ cell
- Vertical expansion of 100,000m³
- Total gain of 200,000 m³ by 2050

- Long term next step could include mining and lining vertical expansion area or lining aggregate area to the north
Cost of new landfill Construction

New Landfill (Phase One Cost)

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$3.3 Million</td>
</tr>
<tr>
<td>Phase One Expansion Volume</td>
<td>100,000 m³</td>
</tr>
<tr>
<td>Cost per m³</td>
<td>$33</td>
</tr>
<tr>
<td>Cost per Tonne</td>
<td>$19.47</td>
</tr>
</tbody>
</table>

- Construction cost includes $400k in long term debit

- For every tonne of waste diverted approximately $20 in construction cost is deferred
- Waste diverted in 2019 was 2,790 tonnes = $55,800
- Initial construction budget was $4.6 million, final contract award was $3.7 million and final cost was lower than award
Site Improvements

- Waste Management Review Coordinator 2002
- Scale ($38K) and scale house ($25K) with hydro, water and septic constructed in 2003
- New Loader 2003
- Compost pad 2004
- Operations building with extension of hydro, water and septic constructed in 2006
- Hazardous waste pad 2008
- Receiving area constructed in 2010
Site Improvements Continued

- Landfill mining and lining 2014 and 2015
- New waste compactor 2016
- Hazardous waste roof constructed in 2017
- New loader 2018
- Leachate system pad, tank and extension of hydro 2019/20
Solid Waste Budget

- Solid Waste accounts for 7% of the total tax levy for 2020

<table>
<thead>
<tr>
<th>2020 Budgets</th>
<th>Landfill</th>
<th>Garbage</th>
<th>Waste Diversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Tax Support</td>
<td>$970,411</td>
<td>$341,039</td>
<td>$771,297</td>
</tr>
<tr>
<td>Expenses and Transfers</td>
<td>$760,400</td>
<td>$20,000</td>
<td>$184,924</td>
</tr>
<tr>
<td>Total Revenues</td>
<td>$210,011</td>
<td>$321,039</td>
<td>$586,373</td>
</tr>
</tbody>
</table>

Total Waste Managed
Cost per Tonne
Landfill Site

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Site Expenses</td>
<td>$958,788</td>
<td>$977,091</td>
</tr>
<tr>
<td>Total Waste Managed</td>
<td>5,973 tonne</td>
<td>6,252 tonne</td>
</tr>
<tr>
<td>Cost per Tonne</td>
<td>$160</td>
<td>$156</td>
</tr>
<tr>
<td>Revenue Short Fall</td>
<td>$409,876</td>
<td>$434,811</td>
</tr>
</tbody>
</table>

- Integrated system cost is approximate $160 per tonne which is consistent with current tipping rate
- Total Waste Managed is all streams of waste diverted, composted or landfilled
# Landfilling Cost Per Tonne

<table>
<thead>
<tr>
<th>Based on 2019</th>
<th>Landfilling</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Operational Cost</td>
<td>$977,091</td>
<td></td>
</tr>
<tr>
<td>Diversion Activity</td>
<td>40%</td>
<td></td>
</tr>
<tr>
<td>Landfill Activity</td>
<td>60%</td>
<td></td>
</tr>
<tr>
<td>Related Landfilling</td>
<td>$586,255</td>
<td>($977,091 x 60%)</td>
</tr>
<tr>
<td>Operational Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tonnes Landfilled in 2019</td>
<td>4,657</td>
<td></td>
</tr>
<tr>
<td>Landfilling Cost Per Tonne</td>
<td>$125</td>
<td></td>
</tr>
<tr>
<td>Plus Cost of New Landfill</td>
<td>$20</td>
<td></td>
</tr>
<tr>
<td><strong>Total Cost of Landfilling</strong></td>
<td><strong>$145</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Based on 2019</th>
<th>Diversion</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Operational Cost</td>
<td>$977,091</td>
<td></td>
</tr>
<tr>
<td>Diversion Activity</td>
<td>40%</td>
<td></td>
</tr>
<tr>
<td>Landfill Activity</td>
<td>60%</td>
<td></td>
</tr>
<tr>
<td>Related Diversion</td>
<td>$390,836</td>
<td>($977,091 x 40%)</td>
</tr>
<tr>
<td>Operational Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tonnes Diverted in 2019</td>
<td>2,790</td>
<td></td>
</tr>
<tr>
<td>Diversion Cost Per Tonne</td>
<td>$140</td>
<td></td>
</tr>
<tr>
<td><strong>Total Cost of Diversion</strong></td>
<td><strong>$140</strong></td>
<td></td>
</tr>
</tbody>
</table>
### User Rates

<table>
<thead>
<tr>
<th>Item</th>
<th>2019 Per Tonne</th>
<th>May 2020 Per Tonne</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Waste</td>
<td>$150</td>
<td>$160</td>
</tr>
<tr>
<td>Mixed Residential Waste</td>
<td>$300</td>
<td>$320</td>
</tr>
<tr>
<td>Commercial Waste</td>
<td>$150</td>
<td>$320</td>
</tr>
<tr>
<td>Mixed Commercial Waste</td>
<td>$300</td>
<td>$640</td>
</tr>
<tr>
<td>Residential Drywall, Shingles, Metal, Wood, Concrete</td>
<td>$75</td>
<td>$90</td>
</tr>
<tr>
<td>Commercial (Drywall), Shingles, Metal, Wood, Concrete</td>
<td>$75</td>
<td>($140) $90</td>
</tr>
<tr>
<td>Residential Yard Waste</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Commercial Yard Waste</td>
<td>$75</td>
<td>$90</td>
</tr>
<tr>
<td>Mattress</td>
<td>$150</td>
<td>$20 Each</td>
</tr>
</tbody>
</table>

Following increase in fees in 2020, Site expenses not decreased with reduction of unsorted loads. Unsorted loads historically landfilled not processed by Staff or other. However, new fees have reduced number of commercial, construction and unsorted loads.
No Charge materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Tonnes Managed 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Waste Curbside</td>
<td>1582</td>
</tr>
<tr>
<td>Town Departments Waste</td>
<td>26</td>
</tr>
<tr>
<td>Residential Yard Waste Curbside</td>
<td>113</td>
</tr>
<tr>
<td>Residential Yard Waste Depot</td>
<td>458</td>
</tr>
<tr>
<td>Town Departments Brush</td>
<td>75</td>
</tr>
<tr>
<td>Recycling Depot</td>
<td>80</td>
</tr>
<tr>
<td>Household Hazardous Waste</td>
<td>23</td>
</tr>
<tr>
<td>Electronic Waste</td>
<td>18</td>
</tr>
<tr>
<td>Tires</td>
<td>15</td>
</tr>
<tr>
<td>Bottles for Beaver Valley Outreach</td>
<td>8</td>
</tr>
<tr>
<td>Christmas Trees</td>
<td>7</td>
</tr>
<tr>
<td>Textiles</td>
<td>2</td>
</tr>
<tr>
<td>Curbside Batteries</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,408.5</strong></td>
</tr>
</tbody>
</table>

There are no fees charged for these materials, this is to provide incentive for sorting loads and to remove small but difficult materials like hazardous waste out of the landfill and into the recycle stream or containment landfill.
## Cost of Collection

<table>
<thead>
<tr>
<th></th>
<th>Cost</th>
<th>Tonnage</th>
<th>Cost/Tonne</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2018</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage</td>
<td>$284,000</td>
<td>1,644</td>
<td>$173</td>
</tr>
<tr>
<td>Recycle, Organics, Yard</td>
<td>$521,000</td>
<td>1,403</td>
<td>$371</td>
</tr>
<tr>
<td><strong>2019</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage</td>
<td>$292,000</td>
<td>1,582</td>
<td>$185</td>
</tr>
<tr>
<td>Recycle, Organics, Yard</td>
<td>$547,000</td>
<td>1,497</td>
<td>$365</td>
</tr>
<tr>
<td><strong>2020 Jan - Aug</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage</td>
<td>$213,000</td>
<td>1,376</td>
<td>$155</td>
</tr>
<tr>
<td>Recycle, Organics, Yard</td>
<td>$502,000</td>
<td>1,380</td>
<td>$364</td>
</tr>
</tbody>
</table>

- Increase in all streams compared to January – August in 2019
  - Garbage 23%
  - Blue Box 32%
  - Organics 29%
  - Yard 57%
Long Term Financial Liability

- Ontario regulation 232/98 includes associated guidelines to ensure privately operated landfills have the financial means to close, maintain and monitor Site when filling is complete.
- Municipalities must calculate the anticipated financial liability but it can be unfinanced
- Significant increase in 2020 within the context of leachate haulage vs forcemain
- Cost of annual haulage and pre-treatment becomes part of long term liability
- Contaminate life span is 100 years during that time the municipality will need to haul and treat the associated leachate
# Staffing and 2020 Operations

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead Hand</td>
<td>Tom</td>
<td></td>
</tr>
<tr>
<td>Scale Operator</td>
<td>Barb (50%)</td>
<td></td>
</tr>
<tr>
<td>Site Operator</td>
<td>Catherine (70%)</td>
<td></td>
</tr>
<tr>
<td>2 Seasonal Site Operators</td>
<td>Brian (30%)</td>
<td></td>
</tr>
<tr>
<td>Manager</td>
<td>Jeff</td>
<td></td>
</tr>
<tr>
<td>Public Works Coordinator</td>
<td></td>
<td>(25%)</td>
</tr>
<tr>
<td>Student</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Timeline 2020 and Covid-19 update

- January – February: Pre-COVID
- March 18 – Closure due to COVID-19, Site closes
  - Curbside waste continues as usual
  - March 23 Lead Hand on self-isolation and STD by March 30
  - Part-time Operator continues with spring clean up, leachate and compaction of commercial and curbside waste
  - Decision made by Operations in consultation with Human Resources not to bring on selected summer student
- March 30 – Site re-opens Mondays for commercial haulers only (9am – 3pm)
  - Seasonal operator starts April 6
- April 28 – Site re-opens to public with Monday as an extra open day
- May 01 – New fees begin and new diversion programs
  - New Lead Hand starts May 11
- August 08 – Saturday all day (9am – 3pm) pilot begins and closed on Mondays
- September 01 – Increase in daily hours 8am – 3pm
  - Increase Site Operator to full time
  - Increased Seasonal Operator hours
  - Due to time of mini-budget decision not to hire budgeted second seasonal operator for 2020 but increase existing seasonal hours
- October 31 - Pilot to end
  - Decision to continue full day Saturday will be part of 2021 Budget. If approved full day Saturday to commence in June 2021.
• Number of patrons down overall in 2020, but trending up since May re-open
• January to August 2020 = 11,998
• January to August 2019 = 14,639
• January to August 2018 = 11,071
The morning continues to see more traffic than the afternoon, 60 patrons was the average in the afternoon for August.

Average per day in August 2019 was 182 (mornings only) vs. 173 for August in 2020.

Pilot has helped spread out Site usage which decreases wait times and traffic flow.
Site Activities and Work

During Public Open Hours

- Assisting Site Patrons
- Maintaining waste and sorting area ie:
  - loading mattresses into bin
  - magnet for nails
  - removing contamination
- Receiving HHW
- Covering and compacting waste
- Maintaining access to tipping area
- Operation of leachate pre-treatment

During Closed Hours

- Shuttling waste to active area and cleaning bin areas
- Building and equipment checks and maintenance
- Sorting HHW
- Cover and compaction of waste
- Moving cover
- Completing reporting and record keeping
- Turning compost
- Taking measurements and samples
- Responding to dumping and service requests
Curbside System

Services
- Garbage Collection
  - (1 free and 1 tagged)
- Recycling
  - Blue and Grey Box
- Organics
  - Green Cart
- Seasonal Yard Waste 8 weeks
  - Spring and Fall
- Christmas Tree
- Battery Collection
  - September

Download the new app for The Blue Mountains garbage and recycling services.
- Collection and events calendar
- Waste wizard (what goes where)
- Electronic reminders

www.thebluemountains.ca
Curbside System

Tonnage

- All collection waste streams trending higher in 2020 than previous years, this will also increase costs related to collection
Overall Diversion Rate

- Higher diversion rate trending for 2020, initial rate of 47%
## Surrounding Municipal Programs

<table>
<thead>
<tr>
<th>Service</th>
<th>Simcoe Country</th>
<th>Meaford</th>
<th>Grey Highlands</th>
<th>The Blue Mountains</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curbside</td>
<td>Garbage/Green/Blue</td>
<td>Garbage/Green/Blue</td>
<td>Garbage/Blue</td>
<td>Garbage/Green/Blue</td>
</tr>
<tr>
<td>Bi-weekly</td>
<td>Garbage and Blue</td>
<td>Garbage</td>
<td>Blue</td>
<td>None</td>
</tr>
<tr>
<td>Bag Limit</td>
<td>2 Bi-weekly</td>
<td>3 Bi-weekly</td>
<td>1 per week</td>
<td>1 per week</td>
</tr>
<tr>
<td>Bag Fee</td>
<td>$3</td>
<td>$3</td>
<td>$2.50</td>
<td>$3 on second</td>
</tr>
<tr>
<td>Yard Waste</td>
<td>Seasonal Pick up and Depot</td>
<td>Seasonal Drop off Depot</td>
<td>Depot</td>
<td>Seasonal Pick up and Depot</td>
</tr>
<tr>
<td>Battery Collection</td>
<td>One week</td>
<td>Depot</td>
<td>Depot Owen Sound</td>
<td>Month of September</td>
</tr>
<tr>
<td>Landfill/Depot</td>
<td>8 (2 to 5 days/week)</td>
<td>No – Private Owen Sound</td>
<td>3 (1 to 4 days/week)</td>
<td>3 days/week</td>
</tr>
<tr>
<td>HHW Depot</td>
<td>Selected Depots</td>
<td>Limited Saturday Depot</td>
<td>Depot Owen Sound</td>
<td>Seasonal Depot</td>
</tr>
</tbody>
</table>
Promotions and Education

- Mass mailing of paper quick guide $2,250
- Quick guide for counter walk-ups and landfill
- Electronic quick guide for mailing
- Waste Resource App $4,780
- Google Places, Twitter, email blasts, app push notices
- Notice stickers
- Paper Ads $450
- Battery Bags $1,000
- Boxes, bins and carts
- Members of Council tour Site
  - valuable opportunity to answer questions provide insight
Blue Box Transition 2023

- Stewardship Ontario will take over residential blue box collection from municipalities
  - Stewardship Ontario will operate and be fully financially responsible for residential collection, could be contracted to a company like Miller Waste Systems or Stewards could form a service provider (ex: BC Recycle)
  - Directive from Province to maintain the existing standard of service for the residential program

- Plan needs to be considered for orphaned institutional, commercial and industrial blue box collection, that are currently collected in the Town system
  - Do nothing
  - User pay (combined with organics)
  - Cart system
  - Regional approach

- Transition aligns well with current contract but this could significantly impact non-residential programs

- Continued communications role for local municipalities

- Coordination with other streams
Next Steps

- Winterize leachate pre-treatment system, with Council approval - 2020
- Site study leading to conceptual Site layout and operations plan - 2021
- Continued implementation of innovative diversion programs with financial benefits related to both revenue and expense - ongoing
- Proposal for post residential blue box transition - 2021