

City of Hamilton WASTE MANAGEMENT SUB-COMMITTEE REVISED

Meeting #: 23-003

Date: September 29, 2023

Time: 9:30 a.m.

Location: Room 264, 2nd Floor, City Hall (hybrid) (RM)

71 Main Street West

Aleah Whalen, Legislative Assistant (905) 546-2424 ext. 6436

Pages

3

8

APPROVAL OF AGENDA

(Added Items, if applicable, will be noted with *)

- 2. DECLARATIONS OF INTEREST
- 3. APPROVAL OF MINUTES OF PREVIOUS MEETING

*3.1 June 23, 2023

- 4. COMMUNICATIONS
- 5. DELEGATION REQUESTS
 - 5.1 Various Delegation Requests Respecting Item 7.8 Solid Waste Management Master Plan
 - 5.1.a Scott Gate with Collective Resources, respecting present alternative waste diversion program including landfill reclamation and an enhanced circular economy (for today's meeting)
 - 5.1.b Brett Hooton with Tallgrass Energy, respecting alternatives to traditional landfill programming with an enhanced emphasis on the circular economy (for today's meeting)

12

		solid waste programming, landfill remediation, and an enhanced circular economy (for today's meeting)					
6.	DELEGATIONS						
	6.1	Ankur Sagar with Relectra Energy Inc., respecting a Municipal Solid Waste Solution Proposal (Approved at the June 23, 2023 Meeting)					
7.	STAF	STAFF PRESENTATIONS					
	7.1	City-Wide Litter Review	14				
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8.	CONS	SENT ITEMS					
	*8.1	2020 Solid Waste Management Master Plan Action Items (2021-2025 Progress)	51				
9.	DISCUSSION ITEMS						
10.	MOTIONS						
11.	NOTICES OF MOTION						
12.	GENERAL INFORMATION / OTHER BUSINESS						
13.	ADJOURNMENT						

Jeff Black with Collective Resources, respecting the future of

5.1.c



WASTE MANAGEMENT SUB-COMMITTEE MINUTES 23-002

Friday, June 23, 2023 1:30 p.m. Room 264, 2nd Floor City Hall, Hamilton

Present: Councillor M. Francis (Chair)

Councillor A. Wilson (Vice Chair)

Councillor M. Tadeson

Kevin Hunt

THE FOLLOWING ITEMS WERE REFERRED TO THE PUBLIC WORKS COMMITTEE FOR CONSIDERATION:

FOR INFORMATION:

(a) APPROVAL OF THE AGENDA (Item 2)

The Committee Clerk advised of the following changes to the agenda:

- 5. DELEGATION REQUESTS (Item 5)
 - 5.1 Ankur Sagar with Relectra Energy Inc., respecting a Municipal Solid Waste Solution Proposal (for a future meeting)

(Hunt/A. Wilson)

That the Agenda for the June 23, 2023 meeting of the Waste Management Sub-Committee be approved, as amended.

CARRIED

(b) DECLARATIONS OF INTEREST (Item 2)

There were no declarations of interest.

(c) APPROVAL OF MINUTES OF PREVIOUS MEETING (Item 3)

(i) May 11, 2023 (Item 3.1)

(A. Wilson/Hunt)

That the Minutes of the May 11, 2023 meeting of the Waste Management Sub-Committee be approved, as presented.

CARRIED

(d) DELEGATION REQUESTS (Item 5)

(Hunt/A. Wilson)

That the following Delegation Request be approved for a future meeting:

(i) Ankur Sagar with Relectra Energy Inc., respecting a Municipal Solid Waste Solution Proposal (Item 5.1)

CARRIED

(e) STAFF PRESENTATIONS (Item 7)

(i) Waste Collection Safety Campaigns (Item 7.1)

Joel McCormick, Manager of Waste Collections addressed the Committee, respecting Waste Collection Safety Campaigns, with the aid of a PowerPoint presentation.

(Hunt/A. Wilson)

That the presentation from Joel McCormick, Manager of Waste Collections, respecting Waste Collection Safety Campaigns, be received.

CARRIED

(ii) Waste Collection Technology (Item 7.2)

Joel McCormick, Manager of Waste Collections addressed the Committee, respecting the Waste Collection Technology, with the aid of a PowerPoint presentation.

(Tadeson/Hunt)

That the presentation from Joel McCormick, Manager of Waste Collections addressed the Committee, respecting the Waste Collection Technology, be received.

CARRIED

(iii) Tim Horton's Field Waste Diversion (Item 7.3)

June 23, 2023 Page 3 of 5

Joel McCormick, Manager of Waste Collections addressed the Committee, respecting the Tim Horton's Field Waste Diversion, with the aid of a PowerPoint presentation.

(Hunt/Tadeson)

That the presentation from Joel McCormick, Manager of Waste Collections, Tim Horton's Field Waste Diversion, be received.

CARRIED

(iv) Hazardous and Special Waste (Item 7.4)

Rob Conley, Manager of Recycling and Waste Disposal addressed the Committee, respecting Hazardous and Special Waste, with the aid of a PowerPoint presentation.

(A. Wilson/Tadeson)

That the presentation from Rob Conley, Manager of Recycling and Waste Disposal, addressed the Committee, respecting Hazardous and Special Waste, be received.

CARRIED

(v) Waste Composition Studies (Item 7.5)

Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Waste Composition Studies, with the aid of a PowerPoint presentation.

(Hunt/Tadeson)

That the presentation from Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Waste Composition Studies, be received.

CARRIED

(vi) Multi-Residential Waste Diversion (Item 7.6)

Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Multi-Residential Waste Diversion, with the aid of a PowerPoint presentation.

(Hunt/A. Wilson)

That the presentation from Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Multi-Residential Waste Diversion, be received.

CARRIED

(vii) Waste Management Performance Metrics (Item 7.7)

June 23, 2023 Page 4 of 5

Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Waste Management Performance Metrics, with the aid of a PowerPoint presentation.

(Tadeson/A. Wilson)

That the presentation from Ryan Kent, Manager of Waste Policy and Planning, respecting Waste Management Performance Metrics, be received.

CARRIED

(viii) Promotion and Education Update (Item 7.8)

Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Promotion and Education Update, with the aid of a PowerPoint presentation.

(Tadeson/Hunt)

That the presentation from Ryan Kent, Manager of Waste Policy and Planning, respecting Promotion and Education Update, be received.

CARRIED

(ix) Strategic Planning Updates (Item 7.9)

Ryan Kent, Manager of Waste Policy and Planning addressed the Committee, respecting Strategic Planning Updates, with the aid of a PowerPoint presentation.

(Hunt/Tadeson)

That the presentation from Ryan Kent, Manager of Waste Policy and Planning, respecting Strategic Planning Updates, be received.

CARRIED

(f) Solid Waste Management Master Plan Update (Item 8.1)

(Tadeson/Hunt)

That the report respecting the Solid Waste Management Master Plan Update, be received.

CARRIED

(g) ADJOURNMENT (Item 14)

(Tadeson/Hunt)

That there being no further business, the Waste Management Sub-Committee, be adjourned at 3:07 p.m.

CARRIED

Waste Management Sub-Committee Minutes 23-002

June 23, 2023 Page 5 of 5

Respectfully submitted,

M. Francis, Chair Waste Management Sub-Committee

Aleah Whalen Legislative Assistant Office of the City Clerk From: City of Hamilton < hello@hamilton.ca>

Sent: September 18, 2023 4:40 PM

To: clerk@hamilton.ca

Subject: Webform submission from: Request to Speak to a Committee of Council

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Submitted on Mon, 09/18/2023 - 16:40

Submitted by: Anonymous

Submitted values are:

Committee Requested

Committee

Waste Management Sub-Committee

Will you be delegating in-person or virtually? Virtually

Will you be delegating via a pre-recorded video? No

Requestor Information

Requestor Information Scott Gates Collective Resources



Preferred Pronoun he/him

Reason(s) for delegation request

Present alternative waste diversion program including landfill reclamation and an enhanced circular economy.

Will you be	requesting	funds 1	from	the (City?
No					

Will you be submitting a formal presentation? Yes

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Submitted by: Anonymous

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Committee Requested

Committee

Waste Management Sub-Committee

Will you be delegating in-person or virtually? In-person

Will you be delegating via a pre-recorded video? No

Requestor Information

Requestor Information Brett Hooton Tallgrass Energy



Preferred Pronoun he/him

Reason(s) for delegation request

Alternative to traditional landfill programming with an enhanced emphasis on the circular economy.

Will you be requesting funds from the City?

No			

Will you be submitting a formal presentation? No

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71 Main Street West Hamilton, ON, L8P 4Y5 Canada From: City of Hamilton < hello@hamilton.ca>

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Submitted on Mon, 09/18/2023 - 16:56

Submitted by: Anonymous

Submitted values are:

Committee Requested

Committee

Waste Management Sub-Committee

Will you be delegating in-person or virtually? In-person

Will you be delegating via a pre-recorded video? No

Requestor Information

Requestor Information Jeff Black

Collective Resources



Preferred Pronoun he/him

Reason(s) for delegation request

Future of solid waste programming, landfill remediation, and an enhanced circular economy.

Will you be requesting funds from the City?
No
Will you be submitting a formal presentation?

No

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71 Main Street West Hamilton, ON, L8P 4Y5 Canada



City-Wide Litter Review Status

Item 7.1

City-Wide Litter Review

Council Direction

- May 15, 2023 Public Works Committee Staff conduct a service level review across all divisions in Public Works for proactive and reactive litter collection in the public realm and report back on any operational and budgetary changes to address service levels
- June 14, 2023 General Issues Committee Staff to identify opportunities to enhance service levels within the downtown core for critical street level issues such as waste collection, street sweeping, etc.
- 2022-2026 Council Priorities Outcome 3; Provide vibrant parks, recreation and public space. Measure of Success; Increase cleanliness of public spaces through the expansion of Public Works standards related to garbage and litter collection.



City-Wide Litter Review

Project Deliverables

- Complete review and identify current state of city wide litter management
- Complete engagement exercise
 - Public engagement (Survey)
 - Council engagement (Interviews)
 - Business Improvement Area engagement (Interviews)
- Public Works to identify expansion of services related to city wide litter management
- Develop Key Performance Indicators
- Report back to Public Works Committee any operational and budgetary changes that may be required related to expansion of services; recommendations would be referred to the 2024 Operating Budget process





Hazardous and Special Waste

Item 7.2

Hazardous and Special Waste

- The City of Hamilton is working with the Producer Responsibility
 Organizations (PROs) for Hazardous and Special Products (HSP)
 covered under Ontario's Regulations for HSP disposal from our
 household hazardous waste depots located in Community Recycling
 Centres (CRCs)
- A tender for operations of the three Household Hazardous Waste (HHW) depots and material haulage has recently closed
- Waste Management Staff are currently working with the City's Procurement section to evaluate vendor submissions and look at further options to operate the HHW depots
- Staff are analyzing the current reimbursement program and continuing to work with waste industry associations and the PRO to finalize a fair compensation model as the current funding model falls short of municipal costs; Options and Contract will come to PWC





Closed Landfill Monitoring

Item 7.3

Closed Landfill Monitoring

- Recycling and Waste Disposal (R&WD) manages the maintenance and monitoring at 13 Closed Landfill Sites (Sites) in the City of Hamilton (City)
- These Sites require regular monitoring as required by the Ministry of Environment, Conservation and Parks (MECP) through an Environmental Compliance Approval (ECA) and Provincial legislation to ensure the Sites are environmentally sound
- Activities at the Sites include ground water, surface water and landfill gas monitoring as well as bi-annual inspections to identify any maintenance issues that may need to be addressed



Closed Landfill Monitoring

- Five of these Sites have active leachate collection systems that need to be monitored and maintained
- One of the closed sites has a passive landfill gas collection system that is maintained and monitored
- Several Sites have identified end uses, including sports fields, walking trails and special features that the public can utilize like the Red Hill Valley turtle meeting place!
- The Upper Ottawa Site has a Bobolink and Eastern Meadowlark designated habitat as registered with the Ministry of Natural Resources
- The City continues to work with the MECP to review monitoring requirements on an annual basis based on sampling results and consultant recommendations





Item 7.4

Current Program

- City provides waste support to events that are:
 - Expected to have between 15,000 to 100,000 attendees;
 - On City property; and
 - Coordinated by non-profit organizations
- Some events that don't meet criteria have historically received service
- Support includes providing:
 - Roll-off containers for the collection of garbage, recycling and organics at the end of the events
 - Carts for collecting recycling and organics throughout the event
 - Signage
 - Disposal at City facilities



Waste Diversion at Events



Additionally, two to four events per year fail to divert any waste



Program Review

- As part of the 2020 Solid Waste Management Master Plan update, staff have been working to improve waste diversion at events
- Work included piloting different options and services to improve waste diversion at four events including:
 - Providing the option of using front-end containers to organizers of smaller events
 - Providing staff and equipment for waste sorting stations
 - Providing training to event organizers on waste diversion



Pilot Results:

- Front-end containers were proven to be a practical solution for smaller events
- Appropriate waste diversion occurred when City staff were on site running sorting stations but stopped once staff left
- Three sorting station tents provided by City went missing
- Event organizers need to be held more accountable for waste diversion and City equipment



New Program

To be eligible to receive support from City moving forward:

- Expected attendance between 1,000 to 100,000:
 - 1,000 to 15,000 to have combination of front-end containers (smaller) and roll-off containers (larger)
 - 15,000 to 100,000 to be provided with roll-off containers for all material
- Events must be on City property
- Events must be put on by non-profit organizations
- Events with multiple locations / insufficient areas for containers will not be eligible for service
- Events with food service / food trucks etc.



New Program (cont'd)

- Support subject to sufficient infrastructure at event location (i.e. space for containers)
- Events that are provided with diversion containers and do not divert waste / put forth sufficient effort to divert waste will no longer be eligible for support in the future and will be required to pay tipping fees for material not diverted
- Historical servicing will no longer determine future servicing
- Support is based on a first-come, first served basis due to resourcing
- City staff will not operate sorting stations



Next Steps

- Work with the Special Events Advisory Team (SEAT) to implement the revised program
- Update guide for event organizers with new program requirements
- Create an agreement for event organizers to receive City support





Business Recognition and Education

Item 7.5

Business Recognition and Education

Program Review

As part of the 2020 Solid Waste Management Master Plan update, staff have been working to determine a new program to increase waste diversion and knowledge of best practices at Hamilton businesses

- 10 businesses agreed to be interviewed on recognition and education:
 - Majority (eight) said they were interested in a recognition program
 with (seven) wanting to be publicly recognized, i.e. on social media,
 other responses that received single votes included financial rebates
 and City small business grants
 - Seven asked for assistance with waste audits, five asked for access to educational material and training and four asked for networking opportunities with other environmentally conscious businesses



Business Recognition and Education

Next Steps

- Staff will work on designing a program for businesses that addresses the wants that were provided
- Education will include providing alternatives to single-use plastics





Blue Box Transition Update

Item 7.6

Blue Box Transition Update

- Staff submitted Hamilton's Blue Box Transition Report to the Resource Productivity and Recovery Association by the deadline of August 31st
- Next decision for City will be on servicing properties deemed noneligible for producer responsibility program; Report to PWC in Q4



single-family homes



seasonal dwellings



multi-unit residential buildings



public & private schools



specified retirement & long-term care homes



specified public spaces





Promotion and Education Update

Item 7.7

Promotion and Education Update

Off-Campus Student Housing Education

- McMaster Approximately 1,200 houses known to be used for student housing received in-person education between August 28th and August 31st
- Mohawk Approximately 600 houses known to be used for student housing received in-person education on September 8th
- Material provided included a waste calendar, postcard and trash tags
- Distribution of material will continue until end of November through Waste By-law when responding to issues and by students contacting the City



Off-Campus Student Housing Education



Put Waste in the Right Place

Weekly Waste Collection Reminders

- ✓ At the curb 7pm the night before or by 7am the morning of collection
- One bag garbage limit
- ✓ Use trash tags for extra garbage
- Unlimited recycling (sort papers and containers into separate blue boxes)
- Use the green bin for food waste
- Seasonal yard waste collection (March to December)

Furniture and large household items

- Schedule bulk garbage collection at hamilton.ca/bulk or 905-546-CITY (2489)
- ✓ Maximum of 4 items per week
- Wrap and seal all mattresses and all box springs
- Consider donating, selling or swapping gently used items







Off-Campus Student Housing Education

- Staff attended McMaster's Club Fest on September 5th & 6th and 20th
- Staff planned to attend Mohawk's Campus Life Expo September 20th Home Sweet Home event on September 25th
- Posts on City social media pages and Mohawk and McMaster social media
- Ads on transit shelters around both McMaster (nine) and Mohawk (five) campuses

Next Step

Plan for spring "move out" period



Visit us online to learn more about Hamilton's curbside waste collection program and how to dispose of waste in your student house.





Language Barrier Education

- Staff developed a post-card for Waste By-law, Customer Service and Outreach to use when interacting with residents who's first language is not English
- Languages include Tagalog, Punjabi, Arabic, Spanish, Somali, simplified Chinese and Urdu

NEED WASTE COLLECTION HELP?

The City of Hamilton website can be translated into different languages.

Visit hamilton.ca/wastetranslated and choose your language at the top left of the page.



Download the City's Waste App, select from multiple languages, and you will find waste tips, schedules and learn what goes where.



Get the Waste App at hamilton.ca/wasteapp



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قم بتصيل تطبيق الفايات الذاص بالبلدية City's Waste ، اختر من اللغات المتحدة ، وستجد نصائح حول اللغايات - الجدول الزنينة ، دمعرفة أبن يجب وضع كل نوع من القايات . قم يزماز الموقع (Manillon.cawstepp .

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namilion.ca/wastetransiate0 'ਤ ਜਾਣ ਅਤੇ ਪਨ ਦੇ ਚੁਪਰ ਖੋਖ ਪਾਸ ਆਪਣੀ ਭਾਨਾ ਚੁਣ ਸਿਨੀਜ਼ ਵੇਸਟ ਐਪ ਨੂੰ ਡਾਉਨਲੋਡ ਕਰੋ, ਕਈ ਭਾਸ਼ਾਵਾਂ ਵਿੱਚੋਂ ਚੁਣੇ, ਅਤੇ ਤੁਹਾਨੂੰ ਕੂੜੇ ਦੇ ਸੁਝਾਅ, ਸਮਾਂ-ਸਾਰਣੀ ਮਿਲੇਗੀ ਅਤੇ ਸਿੱਖੋਗੇ ਕਿ ਕੀ ਹੁੰਦਾ ਹੈ। hamilton.ca/wasteapp 'ਤੇ ਜਾਓ

Ma u baahan tahay caawimaad ururinta qashinka? Bogga internetka ee magaalada Hamilton oo ku turjuman luqado kala duwan

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¿Necesita ayuda para la recolección de residuos? El sitio web de la Ciudad de Hamilton se puede traducir a diferentes idiomas. Visite hamilton.ca/wastetranslated y elija su idioma en la parte superior izquierda de la página

Descargue la Aplicación de Desechos de la Ciudad [Waste App], seleccione entre varios idiomas y encontrará consejos sobre desechos, horarios y aprenderá qué va en dónde. Visite hamilton.ca/wasteapp

Kailangan ng tulong sa pangongolekta nga basura? And website ng Lungsod ng Hamilton ay maaaring isalin sa iba't ibang wika.

Bisitahin ang hamilton.ca/wastetranslated isinalin at piliin ang iyong wika sa kaliwang tuktok ng pahina

I-download ang Waste App ng Lungsod, pumili mula sa maraming wika, at makakahanap ka ng mga tip sa basura, iskedyul at matutunan kung saan pupunta. Bisitahin ang

کیا آپ کو کچرہ ٹھکانے لگانے میں مدد درکار ہے؟ ستی آف سیملٹن کی ویب سائٹ کا مختلف زیانوں میں ترحمہ کیا جا سکتا ہ

hamilton.ca/wastetranslated ملاحظہ کریں اور سب سے اوپر باتیں جلب اپنی زبان کا انتخاب کریں ۔ سٹی کی ورسٹ اپنے داون اوڈ کاریں، متحدز زباتوں میں سے ایک کا انتخاب کریں تو آپ کچرے سے متعلق تجاویزی ، اوقت کار اور کیاں کیا بیپانکا ہے ، کے حوالے سے جانکاری حاصل کر سکوں گئے ۔ ایک انتظامی Mary Samiton cal Market کے خبر ہے۔



Waste Reduction Week Open House

- To celebrate Waste Reduction Week, staff are hosting an open house at the City's Central Composting Facility and Material Recycling Facility on Saturday, October 21st from 9:00 am – 12:00 pm
- Tours will be offered every 30 minutes
- Full details and registration will be posted on the City website and advertised on all City social media channels, the Weather Network and Bell Media and print ads in the Hamilton Spectator and Hamilton Community Newspapers
- Residents interested in a tour are asked to register in advance at <u>hamilton.ca/wasteeducation</u>



Tim Horton's Field Green Bin Program

- Back-of-house program has been implemented across all concession stands and has been very successful – program required additional green carts for a total of 26
- Zero contamination with no rejected material to date
- Staff will move forward with implementation of green bins at front-of-house for patrons in time for the Grey Cup







Solid Waste Management Master Plan

Item 7.8

Solid Waste Management Master Plan

- Scope of work for next Solid Waste Management Master Plan is being developed so that a Request for Proposal can be released by end of year
- Evaluation criteria for proposals is being developed
- Plan to award contract in January of 2024 with a new Solid Waste
 Management Master Plan in place by end of 2024





Item 7.9

Assessment of Organics Management Opportunities:

- New strategy being developed to determine the preferred processing option of green bin and yard waste material to include a focus on renewable energy
- A report assessing organics management options has been completed
- The report evaluated potential options for the City of Hamilton to manage source separated organics and leaf and yard waste in the long term.
- A technology assessment, including costing is to be completed by fall 2024

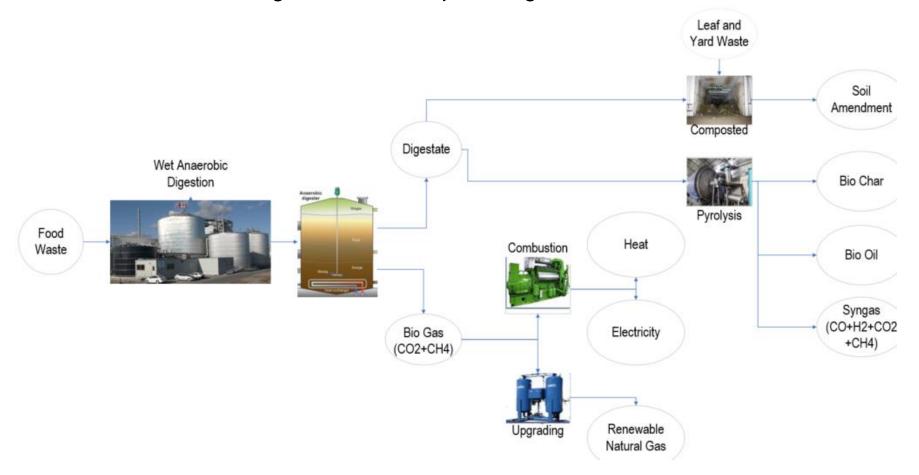


Report Findings:

- 19 options were identified and evaluated based on seven parameters:
 - Renewable Energy and GHG Emission Reduction,
 - Net Cost
 - Flexibility/Longevity
 - Lifecycle Costs / Replacement Cost
 - Revenue
 - Clean and Beneficial Use of Finished Product
 - Alignment with Corporate Strategies
- Evaluation identified three options to move forward for further investigation
 - Wet Anaerobic Digestion Compost Digestate
 - Wet Anaerobic Digestion Pyrolysis Digestate
 - Plug Flow Anaerobic Digestion

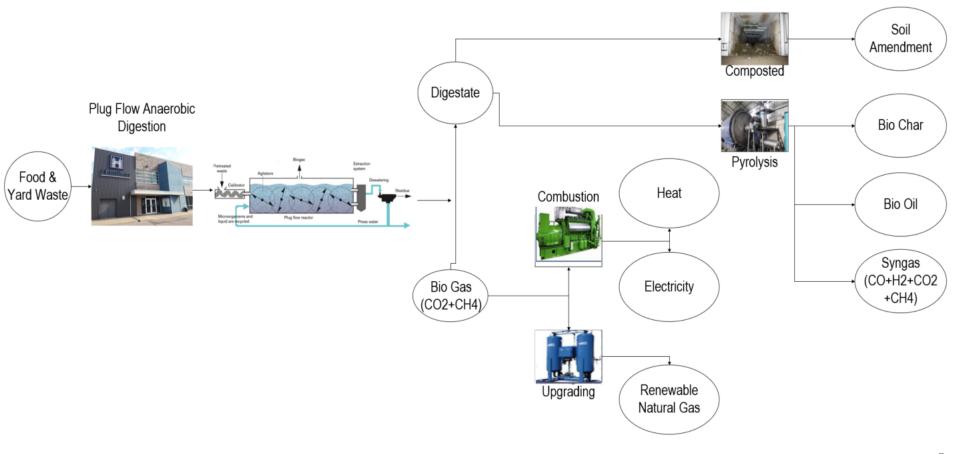


Wet Anaerobic Digestion – Compost Digestate





Anaerobic Digestion – Plug Flow





WASTE MANAGEMENT DIVISION

Next Steps

- 2023 August 21 Start of Organics Management Opportunity evaluations
 - Evaluations to select a preferred option s a lengthy process consisting of detailed consultation with stakeholders, technology feasibility studies, and costing projections.
- 2024 September 30 Planned completion of Organics Management Opportunity evaluations
- Q4 2024 October 1 to December 31 PWC Report on Long Term Organics Management
- 2025 January 1 Implementation of Organics Management Strategy





Thank you



Consent Items

Item 8.1

Work not Started - X Work in Progress - Work Completed - V

Item	Description	Status	Notes
1	Policies on inter- municipal partnerships	~	Establish a policy that clearly defines ability of staff to engage in partnerships with other municipalities.
2	Support community reduce and reuse programs	~	Policy created to provide greater support to programs run by community and non-profit groups that prioritize reuse and waste reduction.
3	Increased curbside enforcement	~	Project resulted in a combination of proactive and reactive enforcement strategies (i.e. on demand and complaint driven); Adjustment in staff structure; change in data reporting and creation of priority levels.
4	Update single-family waste audit methodology	~	Update methodology to provide more accurate and useable data. Audit completed in fall of 2022 with new methodology.



Item	Description	Status	Notes
5	Development options for Material Recycling Facility (MRF)	مسرا	Determine most effective use of property post blue box transition. Review ongoing on Corporate facility requirements.
6	Waste performance metrics and related policies	<u>~~</u>	Metrics for waste diversion and single-family and multi- residential capture rate of organics presented to WMSC on June 23 rd . Landfill life and annual consumption to be provided to WMSC by end of 2023.
7	Construction and demolition (C&D) waste program	<u></u>	Municipal scan complete, feasibility study/pilot for C&D to be completed.
8	Existing program improvements	<u>~~~</u>	Focus on improving business recognition, waste diversion at special events & school education. School education complete.
9	Trash tag program	~~	Reviewing current program to identify efficiencies and opportunities.



Item	Description	Status	Notes
10	Preparation for next waste collection contract (2028)	سر	Investigate efficiencies and innovations for waste collection that could be included in next waste collection contract i.e. automated collection. Garbage cart feasibility study has commenced.
11	Green procurement	×	Waste staff to contribute to development of internal policies supporting green procurement. Federal regulation to act as a guide.



ltem	Description	Status	Notes
1	Multi-Residential data gathering	~	Waste audit and pilot concluded in 2021, resident survey completed. Follow-up audit conducted in 2022 and results finalized. Recommendations for program improvements presented at June 23 rd WMSC.
2	Waste design requirements	~	Revised policy approved by Council in November 2021
3	Single-use plastic (SUP) strategy	<u>~~</u>	Strategy approved by Council, implementation began in 2021 to complete action items. Staff maintaining knowledge or, and commenting on, federal regulation updates.
4	Route optimization software	<u></u>	Phases 1, 2 & 3 complete resulting in GIS based routes and route management system. Draft report on recommendations to be complete by end of 2023.



Item	Description	Status	Notes
5	Blue box transition	<u></u>	Transition scheduled for April 1, 2025; transition tool and roadmap developed.
6	Central Composting Facility capacity (CCF)	<u>~~</u>	Staff exploring options for the future of the organics management. Report on options for processing organics complete, evaluation of options to be completed by end of 2024.
7	Transfer station/Community Recycling Centre Capacity	<u>~~</u>	Feasibility of new or expanded facility as current facilities will soon surpass capacity. Staff studying potential locations and determining cost of available land.
8	Glanbrook Landfill Development	<u>سر</u>	Expansion into stage 4 of the Landfill and improvements to the compost pad. Construction of Cells C, D & E is in progress.

