



City of Hamilton
WASTE MANAGEMENT
SUB-COMMITTEE
AGENDA

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
1. APPROVAL OF AGENDA (Added Items, if applicable, will be noted with *)	
2. DECLARATIONS OF INTEREST	
3. APPROVAL OF MINUTES OF PREVIOUS MEETING	
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)	3
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)	5
5.1.c Jeff Black with Collective Resources, respecting the future of solid waste programming, landfill remediation, and an enhanced circular economy (for today's meeting)	7

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. STAFF PRESENTATIONS

- | | | |
|-----|------------------------------------|----|
| 7.1 | City-Wide Litter Review | 9 |
| 7.2 | Hazardous and Special Waste | 12 |
| 7.3 | Closed Landfill Monitoring | 14 |
| 7.4 | Waste Diversion at Special Events | 17 |
| 7.5 | Business Recognition and Education | 25 |
| 7.6 | Blue Box Transition Update | 28 |
| 7.7 | Promotion and Education Update | 30 |
| 7.8 | Solid Waste Management Master Plan | 37 |
| 7.9 | Organics Management Strategy | 39 |

8. CONSENT ITEMS**9. DISCUSSION ITEMS****10. MOTIONS****11. NOTICES OF MOTION****12. GENERAL INFORMATION / OTHER BUSINESS****13. ADJOURNMENT**

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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 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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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

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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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



Waste Diversion at Special Events

Item 7.4

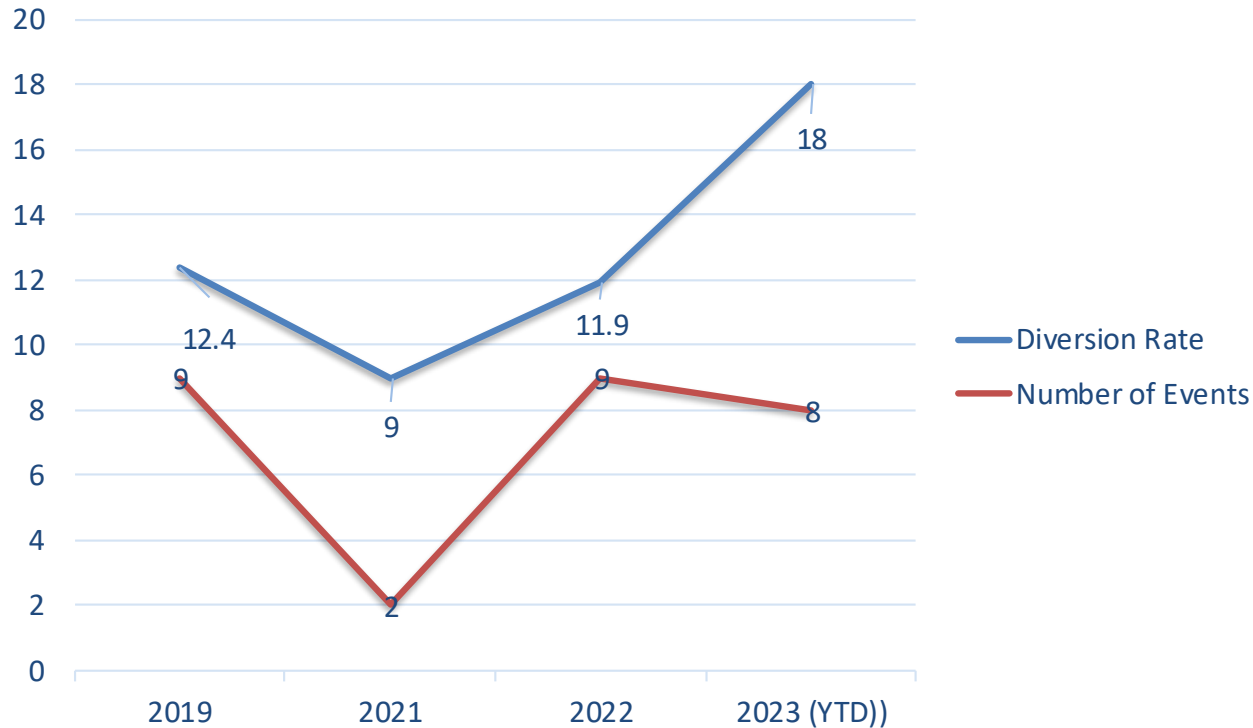
Waste Diversion at Special Events

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 Special Events

Waste Diversion at Events



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

Waste Diversion at Special Events

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

Waste Diversion at Special Events

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



Waste Diversion at Special Events

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.

Waste Diversion at Special Events

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

Waste Diversion at Special Events

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 non-eligible 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

Promotion and Education Update

Off-Campus Student Housing Education



Welcome to Hamilton!

Keeping Hamilton Clean & Green starts with you.

Check out the attached Recycling and Waste Calendar to learn more about Hamilton's curbside waste collection program and how to properly dispose of the waste in your student house.



Download Hamilton's Waste App for your waste collection day and schedule, to set collection reminders and to help with proper sorting with the **What goes where?** item search tool



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 in plastic
- ✓ Consider donating, selling or swapping gently used items

Refer to page 20 in the calendar

CONTACT US IF YOU NEED ANY HELP

- facebook.com/COHrecyclingandwaste
- 905-546-CITY (2489)
- hamilton.ca/waste
- recycle@hamilton.ca



Promotion and Education Update

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

**Living off-campus
while away
at school?**



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

hamilton.ca/waste

 Hamilton

 McMaster
University

 MSU

 MOHAWK
COLLEGE

Promotion and Education Update

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 hamilton.ca/wasteeducation

Promotion and Education Update

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



Organics Management Strategy

Item 7.9

Organics Management Strategy

Assessment of Organics Management Opportunities:

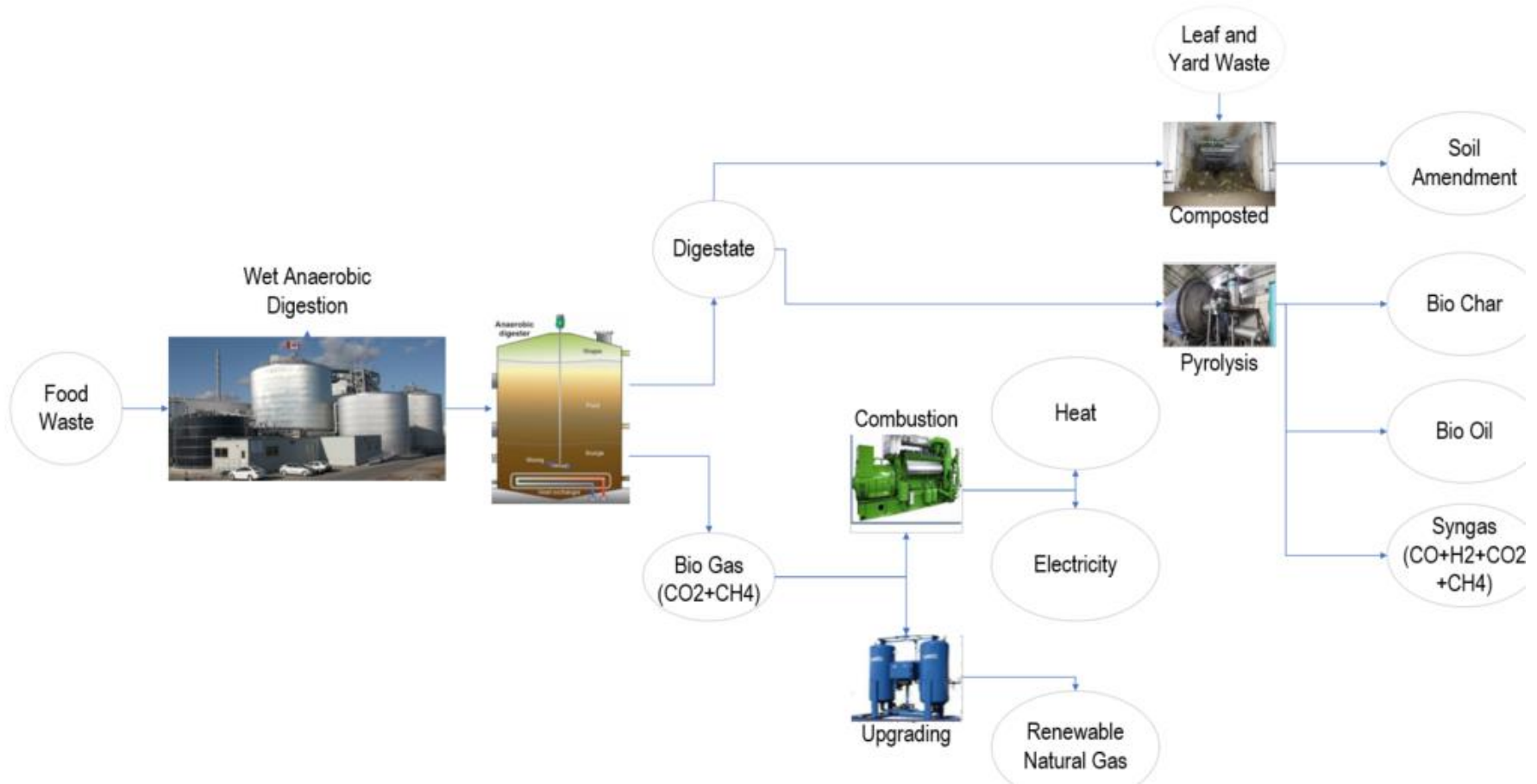
- New strategy being developed to determine the preferred processing option of green bin and yard waste material to include a focus on renewable energy
- A report assessing organics management options has been completed
- The report evaluated potential options for the City of Hamilton to manage source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

Organics Management Strategy

Report Findings:

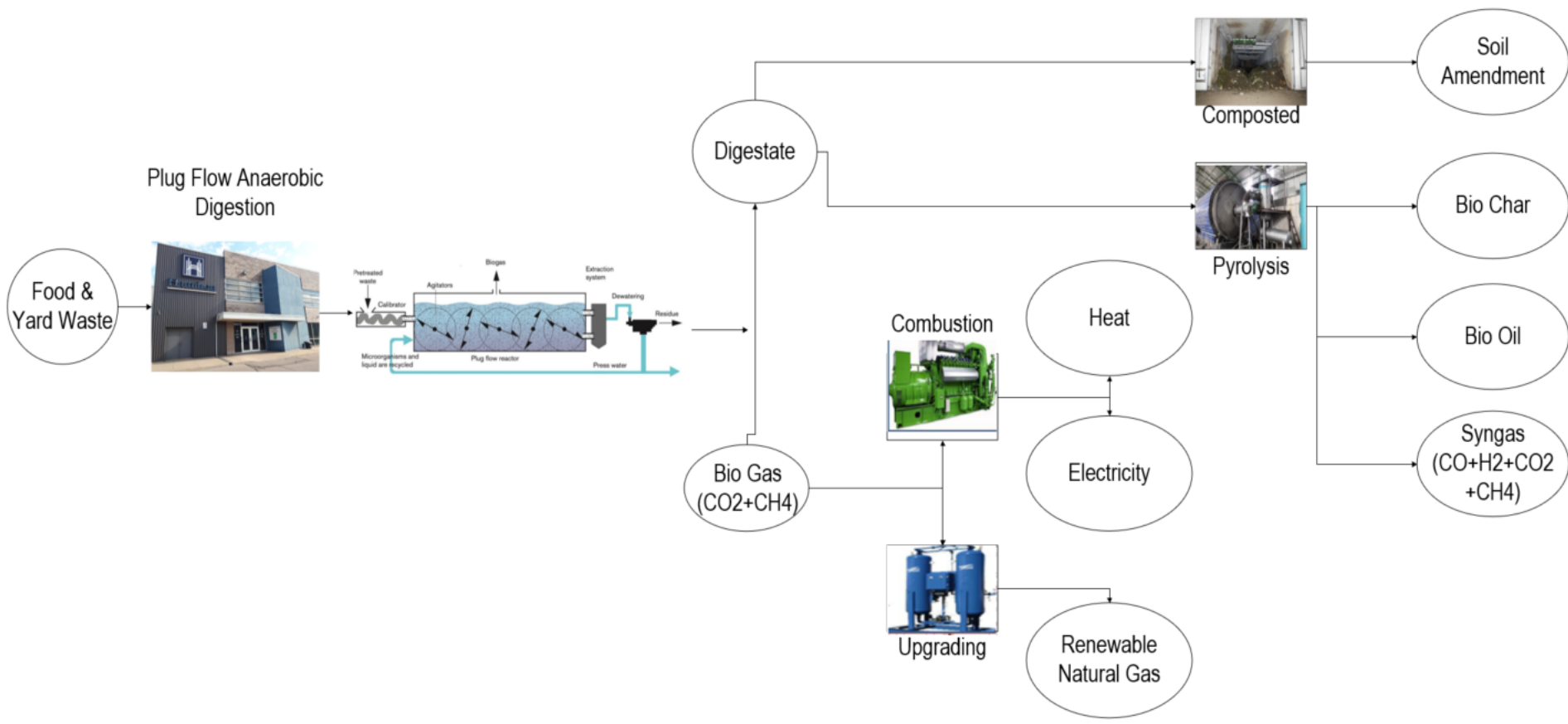
- 19 options were identified and evaluated based on seven parameters:
 - Renewable Energy and GHG Emission Reduction,
 - Net Cost
 - Flexibility/Longevity
 - Lifecycle Costs / Replacement Cost
 - Revenue
 - Clean and Beneficial Use of Finished Product
 - Alignment with Corporate Strategies
- Evaluation 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



Organics Management Strategy

- Anaerobic Digestion – Plug Flow



Organics Management Strategy

Next Steps

- 2023 – August 21 - Start of Organics Management Opportunity evaluations
 - Evaluations to select a preferred option is 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



Hamilton

Thank you