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Stoney Creek Regional Facility Environmental Assessment

# **Environmental Assessment (EA) Public Open House #3 Summary Report**





Prepared by:

A handwritten signature in blue ink that reads "K. Kroeze".

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GHD Ltd.

Reviewed by:

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A handwritten signature in black ink that reads "Blair Shoniker".

Blair Shoniker, MA, RPP  
Senior Waste & Environmental Planner  
GHD Ltd.



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# 1. Introduction

This report summarizes the Public Open House #3 held as part of the Stoney Creek Regional Facility Environmental Assessment (SCRF EA). This was the third of three Public Open Houses that was held during this EA. The Public Open House #3 included an In-Person Open House held on June 19, 2018 and an Online Open House held between June 19 and July 20, 2018.

Terrapure Environmental (Terrapure) has initiated a study under the *Environmental Assessment Act* to assess the various ways of increasing the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario. The proposed capacity increase would allow Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.

At this Public Open House, Terrapure confirmed the preferred option and presented the details of the impact assessment.

## 1.1 Purpose of Public Open House #3

The purpose of the Public Open House #3 was to provide community members with an opportunity to review, ask questions, seek clarifications, and provide comments to the Project Team (i.e., Terrapure and GHD) on the following:

- EA process
- Confirmation of the preferred option
- Results of the detailed impact assessment for the preferred option
- Proposed impact management measures, monitoring and commitments
- Next steps and future consultation opportunities

## 1.2 Date, Time & Location of the Public Open House

Terrapure held the In-Person Open House on Tuesday, June 19, 2018 from 4 p.m. to 8 p.m. at the Salvation Army Winterberry Heights Church (300 Winterberry Drive, Stoney Creek). This location was chosen because of its close proximity to the SCRF, its familiarity to local community members, its accessibility and compliance under the *Accessibility for Ontarians with Disabilities Act (AODA)*, and its size to accommodate attendees.

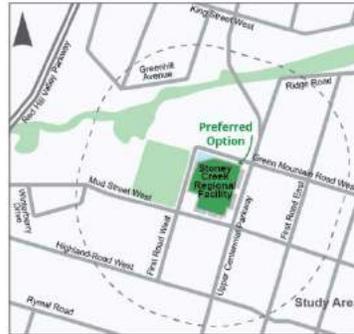
## 1.3 Online Component

Similar to the two previous Public Open Houses, an Online Open House was hosted to broaden the reach and increase the opportunity for participation at this key milestone in the EA process. The Online Open House #3 was available between June 19, 2018 and July 20, 2018 and accessible on the project website.



The information presented online included the same consultation materials (display boards, handouts and comment sheets) presented at the In-Person Open House. Online participants were able to provide written feedback/input on the result of the detailed impact assessment and the proposed impact management measures, monitoring, and commitments for the preferred option. Feedback received from the Online Open House is considered equal to the feedback collected at the In-Person Open House.

## Welcome to the Online Open House!



START OPEN HOUSE

Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual materials at the Stoney Creek Regional Facility (SCRFF) by 3.65 million cubic metres.

The proposed capacity increase would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.

This is the third of three online open houses that will be held during this Environmental Assessment (EA).

This is an opportunity for you to...

1. Learn more about and give feedback on the detailed impact assessment of the preferred option
2. Review and provide input on proposed impact management measures and future monitoring

## 2. Notification of the EA **Public** Open House #3

Terrapure notified stakeholders of Public Open House through a variety of means, promoting both the In-Person Open House and the Online Open House. Specifically, the following notifications for the event(s) were distributed:

- Two advertisements in the Hamilton Spectator on June 5 and June 18, 2018
- Two advertisements in the Stoney Creek News on June 7 and June 14, 2018
- Direct mailing and/or emailing to all identified agencies, Indigenous communities, and members of the public in the project-specific contact database between June 5-12, 2018 (see **Appendix A**)
- Unaddressed mail between June 5-12, 2018 of a postcard advertising the Public Open House #3 to 8,246 residences and businesses within 1.5 km of the site
- A mobile sign announcing the Open House was placed on Terrapure's property south of the south-west corner of Upper Centennial Parkway and Green Mountain Road between June 5-19, 2018
- Reminder emails distributed to those on the project database about the Online Open House and its upcoming deadline on July 19, 2018
- A Story in the Stoney Creek News was published on June 27, 2018



- Notices on the SCRF website and advertised on SCRF Twitter and Facebook accounts were published leading up to the Public Open House #3 on June 19 and ongoing for the Online Open House until July 20, 2018.



Copies of the Notices are included in **Appendix B**.



### 3. Format and Attendance

The format of the In-Person Open House was an informal drop-in session where members of the public could attend anytime during the given hours, review the information, and meet individually with Project Team members. The information was arranged by station around the perimeter of the room as follows:

Station	Description
Welcome	<ul style="list-style-type: none"><li>• Purpose of the Public Open House</li><li>• Environmental Assessment road map</li></ul>
Terrapure and the Stoney Creek Regional Facility	<ul style="list-style-type: none"><li>• Information about Terrapure</li><li>• Overview of the SCRF and its operations</li></ul>
Preferred Option & Detailed Impact Assessment	<ul style="list-style-type: none"><li>• What we heard at Open House #2 and how it was considered</li><li>• Confirmation of the preferred option</li><li>• Results of the detailed impact assessment for the preferred option</li><li>• Proposed impact management measures, monitoring and commitments</li><li>• Drone video on the preferred option details</li><li>• Visual renderings of the preferred option</li></ul>
What's Next?	<ul style="list-style-type: none"><li>• Draft EA Report</li><li>• Review opportunities for the public, review agencies, and Indigenous communities</li><li>• Submit Final EA to Ministry of the Environment, Conservation and Parks (MECP)</li><li>• Review and decision by Minister</li><li>• Ongoing consultation activities</li></ul>
What's going on at the Stoney Creek Regional Facility	<ul style="list-style-type: none"><li>• Pollinator Paradise Project</li><li>• Investment in Stoney Creek</li></ul>
Feedback	<ul style="list-style-type: none"><li>• Feedback on detailed impact assessment</li><li>• Feedback on the In-person Open House</li><li>• Additional comment sheets</li></ul>

Copies of the display panels and print material are included in **Appendix C**.

There were 51 individuals who attended the In-Person Open House. The attendees included local residents and property owners, local business owners, City of Hamilton staff, elected officials,



members of the SCRF Community Liaison Committee, and the media. During the Online Open House, 13 individuals viewed the information with 7 reviewing it in its entirety.

## 4. Summary of Comments Received

There was many engaging discussions had at the In-Person Open House between Project Team Members and attendees. Team members encouraged participants to write down their feedback on the comment sheets provided while also recording notes depending on the nature of the conversation. The following subsections summarize the comments received, Terrapure's responses and how the comments will be considered in the EA.

### 4.1 Comments on the Public Open House

As attendees were leaving the In-Person Open House, there were feedback forms available for comments on their experience and suggestions to how Terrapure could improve at future consultation activities. One (1) comment sheet was completed at the In-Person Open House and five (5) comments were submitted online.

In general, the feedback received about the event format, date, time, and location was positive. Comments and suggestions received included:

- Details on the Public Open House Notification about the purpose of the Open House was not clear (too generic) and did not provide enough detail (1)
- The Public Open House was very similar to the last Public Open House (1)
- I was not personally invited to fill out a comment form at the Public Open House (1)
- There were stations without any attendees from the Project Team (1)

### 4.2 Comments on the Detailed Impact Assessment of the Preferred Option

At the "Detailed Impact Assessment" station at the In-Person Open House and Online Open House, attendees were asked to provide comments on the preferred option 5 and the corresponding proposed impact management measures. A comment sheet was provided with the following questions:

- *Do you have any comments or feedback on the detailed impact assessment for the preferred option?*
- *Do you have any comments or feedback on the proposed impact management measures, monitoring or commitments presented for the Preferred Option 5?*

**Table 4.1** below summarizes the comments received. This includes verbal comments received, two (2) comment forms from the In-Person Open House and four (4) during the Online Open House.



Table 4.1 Summary of Comments on the Detailed Impact Assessment

<b>Do you have any comments or feedback on the detailed impact assessment for the preferred option?</b>	<b>Comment responses and how they will be considered</b>
Opposition to the height increase (x3)	The preferred option minimizes the height increase compared to other options that also allow for the additional residual capacity Terrapure is seeking through this EA process. Through the application of visual screening measures, such as additional vegetation and/or fencing, the visual impact can be mitigated or blocked to minimize the view of the SCRF on the surrounding community.
Concern with odour coming from the existing SCRF (x2)	<p>SCRF is only permitted to receive non-hazardous residual material from industrial, commercial and institutional sources. We are not permitted to receive any compost or garbage that decomposes and has the potential to cause odours. Often, when we receive inquiries related to odour, it is determined to be associated with other activities happening nearby. We do however have a community response line (905-561-0305), which we encourage residents to call and communicate with us to document and investigate any odours that could be coming from our facility. You may also call the Ministry of the Environment, Conservation and Parks at 416-325-3000 or 1-800-268-6060.</p> <p>Odour was assessed during the Impact Assessment and no off-site odours are anticipated as a result of the proposed undertaking. The SCRF will continue to monitor air quality on-site and will investigate and respond to any odour issues at the SCRF.</p>
We wonder whether there is any risk currently, or with potential future scenarios, for wildlife in and around the stormwater management pond. Are there contaminants present that wildlife might be exposed to? (x1)	The stormwater ponds manage only stormwater; any water associated with or generated from landfilling activities (e.g. leachate) is isolated from the stormwater management ponds. A surface water sampling program tests for a suite of parameters, including total suspended solids and phosphorus, to ensure the water quality being discharged off the Site does not pose a risk to the environment, and to ensure no leachate is getting into the stormwater management pond. With the surface water sampling program in place to detect and control changes which may be harmful to the environment, we do not anticipate that contaminants (TSS and phosphorus) in



<b>Do you have any comments or feedback on the detailed impact assessment for the preferred option?</b>	<b>Comment responses and how they will be considered</b>
	<p>the stormwater ponds pose a risk for wildlife in and around the stormwater ponds under the existing or proposed scenarios.</p> <p>The stormwater management pond also has a shut-off valve; if there is a surface water quality issue, surface water can be contained on-Site.</p>
<p>We are concerned about the fact that there will be a decrease in the separation distance between the landfill activities and adjacent residential properties to the north of the SCRF. This means that there is the potential for impacts on 'sensitive receptors' like residential areas and the school proposed to the northwest of the site because these uses will be in such close proximity to the operating landfill (x1).</p>	<p>With regards to odour, the SCRF is only permitted to receive non-hazardous residual material from industrial, commercial and institutional sources. We are not permitted to receive any compost or garbage that decomposes and has the potential to cause odours. The future potential for odour from the SCRF is not predicted to change as a results of the SCRF EA.</p> <p>Regarding dust, Terrapure is required to adhere to the Ministry of the Environment, Conservation and Parks Point of Impingement (POI) Criteria for particulates. For the preferred option to add capacity to the SCRF, dispersion modelling was used with receptors identified at 20 m intervals around the perimeter of the site, and at defined intervals (gridded receptors) extending up to 5 km from the property boundary, per Ministry of the Environment, Conservation and Parks requirements.</p> <p>This analysis determined that, with additional onsite dust mitigation activities (such as watering and sweeping the on-site roads, reducing on-site vehicle speed, limiting activities near the property boundary during periods of higher winds, and operating below the maximum capacity on a daily basis), the SCRF will be able to meet the Ministry of the Environment, Conservation and Parks guidelines at all locations under the proposed undertaking.</p> <p>Regardless, it is a priority for Terrapure to operate in a way that is respectful and considerate of our neighbours. Anyone who experiences an odour or dust issues can reach our community response line at 1-905-561-0305. You can also report an odour and dust issues to the Ministry of Environment, Conservation and Parks at 1-905-521-7650. Odour and dust complaints are summarized in the annual report, and the MECP is informed of all complaints and how each request has been addressed.</p>



<b>Do you have any comments or feedback on the detailed impact assessment for the preferred option?</b>	<b>Comment responses and how they will be considered</b>
<p>Provide more detail around the 2.5 µm particulate matter size fraction (PM<sub>2.5</sub>) results from the Air Quality Impact Assessment Report (x1)</p>	<p>The Air Quality Impact Assessment assessed PM<sub>2.5</sub> for the existing and four proposed operational phases of the project. For each phase, anticipated vehicle traffic and material handling was modelled.</p> <p>In addition, a cumulative effects assessment was carried out, by adding the estimated background PM<sub>2.5</sub> concentrations measured at local air quality monitoring stations (operated by the Hamilton Air Monitoring Network and National Air Pollution Surveillance network) to the predicted results for the facility operations. The results present an estimate of air quality because of operations at the facility and other sources in the area.</p>
<p>On the ranking summary for Visual "Effect on Views of the Facility", I continue to maintain that Option 1 should be green as there is no change to the currently approved height (regardless of whether it is Industrial Fill or Residual Material). (x1)</p>	<p>Thank you for your comment. As previously mentioned, Option 1 at closure will have a visual impact as compared to the current view and will require screening techniques to minimize the views of the SCRF from the surrounding community.</p>



Do you have any comments or feedback on the proposed impact management measures, monitoring, or commitments presented for the preferred option?	Comment responses and how they will be considered
<p>Concern with visual aesthetics of the site. Does not like the black fencing, damage from the wind storm, and general lack of beautification around the SCRF(x3)</p>	<p>Terrapure takes pride in ensuring that we operate in a manner that is respectful of our neighbours. We have heard and continue to receive feedback from community members regarding the visibility of the site from surrounding vantage points.</p> <p>In response, we implemented additional visual screening measures at the site. Berms have been heightened to increase screening around site access points and fencing has been installed on the west side of the site.</p> <p>In addition, as part of the SCRF EA the visual impact assessment viewsheds were analyzed and a variety of appropriate screening measures presented for consideration. The potential screening measures presented at the Open House will be included in the Land Use Impact Assessment Report and Environmental Assessment Report. We would appreciate any feedback you have on these screening measures.</p>
<p>Should the proponent proceed with additional screening, please do not opt to use any artificial greenery. One of the photos above seems to show artificial green on a fence system. We urge that the proponent make use of real vegetation ideally native to screen the site. This will bring other benefits including creating habitat in the area (x1)</p>	<p>Thank you for your recommendation for the screening surrounding the SCRF to be real vegetation, ideally native. Different screening techniques may be used at various locations around the site and, where possible, native vegetation will be used.</p>
<p>By stating that 'SCRF truck traffic will be restricted from Green Mountain Road - do you mean restricted from using this roadway? Are the only allowable access points Highway 20 and First Road West? Will there be lower speed limits put in place and enforced on First Road West and Green Mountain Road for added safety in the neighbourhood? (x1)</p>	<p>You are correct. Any habitat potentially used by breeding birds that will be removed during construction of the SCRF will be replaced. In addition, Terrapure will consult with the Ministry of <i>Natural Resources and Forestry (MNR)</i> and will file a <i>Notice of Activity</i> to ensure the protection of species and habitat.</p>
<p>We wonder whether the reference to on-site monitoring of PM<sub>10</sub> is a plan to do a one-off</p>	<p>Under its Approval to Proceed (1996), the SCRF implemented an ongoing PM<sub>10</sub> monitoring</p>



<p>monitoring exercise or whether there is an on-going commitment to undertake PM monitoring along the facility fence line - something we believe should be happening now anyway. We would add that the proponent should also be required to monitor for PM<sub>2.5</sub> - now confirmed as a known cause of lung cancer in humans. (x1)</p>	<p>program (managed and maintained by Rotek Environmental), with annual reports submitted to the MECP. The last 5 years of reports are also posted on the Company's website. The approval to proceed with the undertaking was subject to 23 terms and conditions under the Environmental Assessment Act, and 115 terms and conditions under the Environmental Protection Act. The annual air quality monitoring reports are prepared annually with the objective of satisfying Condition 2.4 under the Environmental Assessment Act and Condition 54 under the Environmental Protection Act. This includes continuous PM<sub>10</sub> monitoring at the Met One BAM 1020 monitor located at the east property line, downwind of the facility operations.</p> <p>PM<sub>10</sub> was selected as the airborne particulate species of interest in accordance with environmental monitoring practices and standards at that time. The equipment has been maintained according to accepted practices, and is audited by the MECP on an annual basis.</p> <p>PM<sub>10</sub> incorporates PM<sub>2.5</sub>, and the existing monitoring program continues to be deemed acceptable by the MECP for the purposes of monitoring airborne particulates in the vicinity of the SCRF. Based on the emissions inventory and dispersion modelling for the facility as part of the ongoing EA process, the facility is unlikely to be a major contributor to elevated PM<sub>2.5</sub> concentrations in the area.</p>
<p>Add PM monitors around the SCRF. (x1)</p>	<p>At this time, we do not believe that it is necessary to add additional monitors since monitoring and best management practices on-site are sufficiently meeting the requirements set out in the Environmental Compliance Approval. The results of air quality monitoring is published annually in the Annual Report, which is provided to the Ministry of the Environment, Parks and Conservation, and the City of Hamilton.</p>
<p>Reviewing the text, we wonder why the wording is that this 'may provide' an additional \$14 million to the Heritage Trust. All of the other points are made with more certainty. Should the company receive</p>	<p>The Heritage Green Community Trust and City of Hamilton royalty program, which receive \$1 for each tonne of residual material received annually, are linked exclusively to the facility receiving residual materials. As such, with the current</p>



approval to proceed with the preferred option is there a chance that the Trust will not see this amount of money? If so, why is this the case? (x1)

approval, these contributions would only continue for approximately 1 to 2 more years. Terrapure has agreed to begin negotiating a new arrangement in good faith with the City of Hamilton that could be enacted should the EA and the ability to bring in additional residual materials be approved.

### 4.3 Additional Comments

Attendees also had the opportunity to provide any other comments and questions for consideration. **Table 4.2** below summarizes these additional comments received verbally from the In-Person Open House and during the Online Open House; as well as how Terrapure responded to and will consider these comments. Two (2) comment forms were completed at the In-Person Open House and eight (8) comments were received through the Online Open House.

**Table 4.2 Summary of Additional Comments and How They Will be Considered**

Summary of Comment Received	Comment Responses and How They Will Be Considered
Opposition to any of the expansion options; desire to close the SCRF (x6)	Terrapure Environmental is currently undergoing an Environmental Assessment under the Provincial <i>Environmental Assessment Act</i> . The purpose of the undertaking, to assess the various ways of increasing capacity for residual material at the Stoney Creek Regional Facility, was established in the Minister-approved Terms of Reference in November, 2017. This capacity increase is based on the identified need for continued disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.
Impressed with the technical explanation of the waste acceptance process. I feel more comfortable knowing what type of material is accepted. (x1)	Terrapure will continue to provide easy-to-understand explanations about the waste acceptance and environmental protections at the SCRF. The SCRF is unique in Ontario in that it only is only permitted to receive residual materials from excavation, construction and infrastructure development, as well as by-products from local industries such as steel production.  Over 50% of all materials received annually comes from customers in Hamilton and the



Summary of Comment Received	Comment Responses and How They Will Be Considered
	local area, such as from construction of the new James Street GO station.
Interest in what the closure plan will include. Ideas presented included gardens, ski hill, small restaurant, and golf course. (x2)	<p>Terrapure must develop a closure plan when permitted capacity gets to a certain level (90%) or within two years prior to closure.</p> <p>Terrapure committed to developing a closure plan in our approved Terms of Reference and in keeping with our ongoing commitment to robust community consultation we are starting it as early as possible.</p> <p>These recommendations will be provided to and discussed with the Closure Planning Advisory Committee.</p>



# **APPENDIX A**

## **Project-Specific Contact Database**



## Project-Specific Contact Database

Agencies, Aboriginal communities, and stakeholder groups on the project-specific contact database include the following:

- City of Hamilton Mayor, Councillors, and relevant staff
- Hamilton Public Health and Medical Officer of Health
- Hamilton-Wentworth Catholic District School Board
- Hamilton-Wentworth District School Board
- Hamilton Fire Department
- Hamilton Conservation Authority
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of the Environment, Conservation and Parks
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Ontario Provincial Police
- Métis Nation of Ontario (Head Office and Clear Waters Métis Council)
- Six Nations of the Grand River First Nation
- Mississaugas of the New Credit First Nation
- Haudenosaunee Confederacy Chiefs Council
- Haudenosaunee Development Institute
- Members of the Community Liaison Committee for the existing Stoney Creek Regional Facility
- Land owners immediately adjacent to the facility
- Project Notification Subscribers



# **APPENDIX B**

## **Notice of EA Public Open House #3**



# You Are Invited!

## Stoney Creek Regional Facility Open House # 3

June 19, 2018 from 4:00 - 8:00 PM

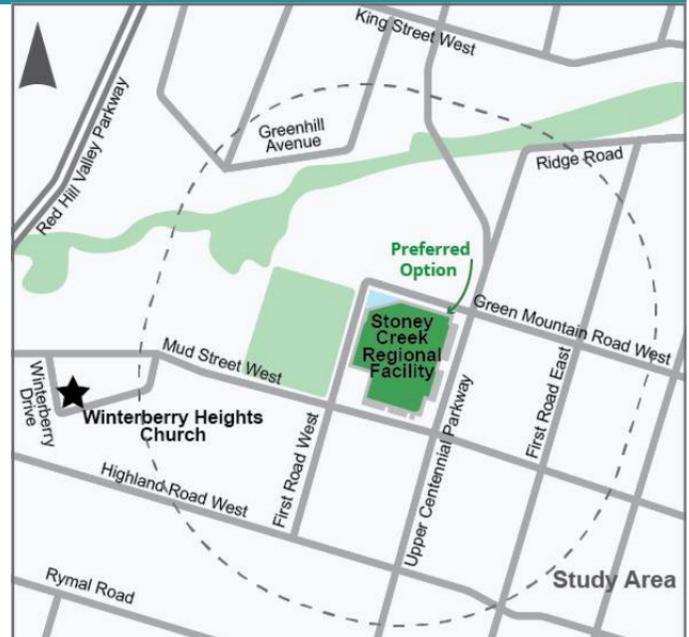
Winterberry Heights Church (300 Winterberry Drive, Stoney Creek)

Can't attend in person? Participate in our Online Open House June 19 to July 20 at [www.terrapurestoneycreek.com](http://www.terrapurestoneycreek.com)

This is an opportunity for you to ...

- Learn more about and give feedback on the detailed impact assessment of the preferred Reconfiguration & Height Increase option
- Review and provide input on proposed impact management measures and future monitoring

**Alternative Formats of this Notice are Available Upon Request**





# What is the Purpose of this Open House?

**Terrapure will present the details impact assessment for the proposed capacity increase at the Stoney Creek Regional Facility**



- Terrapure is undertaking an Environmental Assessment to increase the capacity for residual materials at the Stoney Creek Regional Facility.
- The proposed capacity increase would be used to continue to provide disposal for industrial residual material generated within Hamilton and the Greater Toronto Area.
- The preferred Reconfiguration & Height Increase option would increase the capacity of the Stoney Creek Regional Facility by 3.68 million m<sup>3</sup>.
- This is the final open house that will be held during this Environmental Assessment. Once complete, the draft and final Environmental Assessment Report will be provided to the public and stakeholders for review.

## Questions? Contact Us!

**Contact:** Kim Bailey, Terrapure Environmental

**Website:** [terraturestoneycreek.com](http://terraturestoneycreek.com)

**Address:** 65 Green Mountain Rd W,  
Stoney Creek, ON L8J 1X5

**Email:** [info@terraturestoneycreek.com](mailto:info@terraturestoneycreek.com)

**Phone:** 1-844-898-238

**Fax:** 905-549-4515

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of Environment and Climate Change (MOECC) for the purpose of transparency and consultation. The information is collected under the authority of the *EA Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the MOECC's Freedom of Information and Privacy Coordinator at (416) 327-1434.



June 4, 2018

Reference No. 11102771

Dear Sir/Madam:

**Re: Notice of EA Public Open House #3  
Stoney Creek Regional Facility Environmental Assessment  
Terrapure Environmental**

We are writing to provide you with an update on the Terrapure's Environmental Assessment for increasing the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario.

We would like to invite you to an Open House on **June 19, 2018** from **4:00 pm – 8:00 pm** at the Winterberry Heights Church, **300 Winterberry Drive, Stoney Creek**. At this Open House, we will present the detailed impact assessment of the preferred option for capacity increase.

Please find attached further details for the Open House. Please contact me if you have any questions on the information above.

Sincerely,

Kind Regards,  
GHD



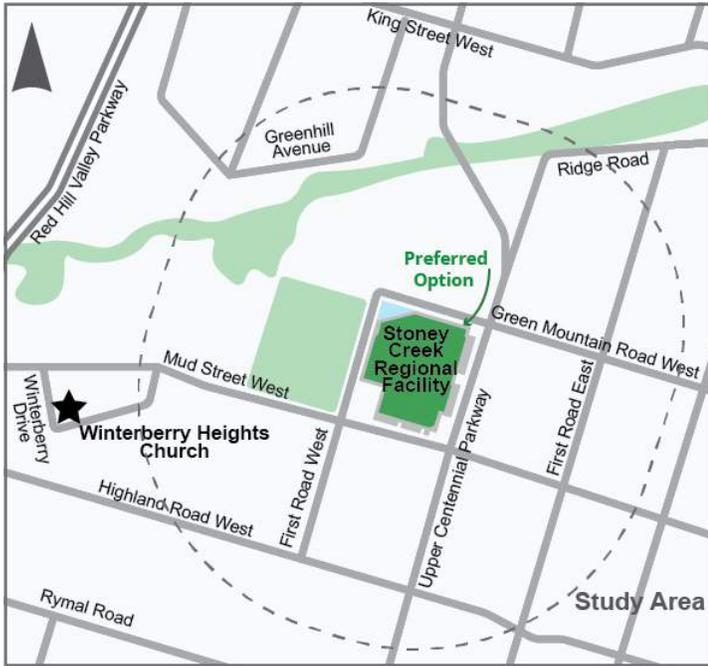
Blair Shoniker, MA, RPP  
Project Manager

On behalf of Terrapure Environmental  
[info@terrapurestoneycreek.com](mailto:info@terrapurestoneycreek.com)  
[www.terrapurestoneycreek.com](http://www.terrapurestoneycreek.com)  
1-844-898-2380



# You Are Invited!

Open House on Proposed Changes to the Stoney Creek Regional Facility



**June 19, 2018 4:00 - 8:00 PM**

**Winterberry Heights Church  
300 Winterberry Drive, Stoney Creek**

Can't attend in person? Participate in our Online  
Open House June 19 to July 20 at  
[terraturestoneycreek.com](http://terraturestoneycreek.com)

This is an opportunity for you to ...

- Learn more about and give feedback on the detailed impact assessment of the preferred **Reconfiguration & Height Increase** option
- Review and provide input on proposed impact management measures and future monitoring

Terrapure Environmental (Terrapure) is proposing to increase the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario, under the *Environmental Assessment Act*. The preferred **Reconfiguration and Height Increase** option would increase the capacity of the Stoney Creek Regional Facility by 3.68 million m<sup>3</sup>. The preferred option was confirmed based on technical feasibility, low net environmental effects and input received from the community, review agencies and Indigenous communities.

This is the final of three Open Houses being held during the Environmental Assessment. Feedback received during this Open House will be used to refine the details for the design and operations of the proposed capacity increase. Once complete, the draft and final Environmental Assessment Report will be provided to the public and stakeholders for review.

## Questions? Contact Us!

**Contact:** Kim Bailey, Terrapure Environmental

**Address:** 65 Green Mountain Road West  
Stoney Creek, ON L8J 1X5

**Email:** [info@terraturestoneycreek.com](mailto:info@terraturestoneycreek.com)

**Phone:** 1-844-898-2380

**Fax:** 905-549-4515

**Visit our website for more information on  
this project:** [www.terraturestoneycreek.com](http://www.terraturestoneycreek.com)

The Environmental Assessment is being conducted in accordance with the Amended Terms of Reference (approved by the Minister of the Environment and Climate Change on November 9, 2017) and the *Environmental Assessment Act*.

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the MOECC for the purpose of transparency and consultation. The information is collected under the authority of the *EA Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the MOECC's Freedom of Information and Privacy Coordinator at (416) 327-1434.

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# Professional Directory

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**Classified**  
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Advertise in the Classifieds and get FAST CASH!

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**Business Services**

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1-800-211-3550

**Classifieds**  
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**Articles Wanted**

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French provincial dining room set, French Provincial foot stool, 3 marble top end tables, cherry wood corner cabinets, curio cabinet, 2 pairs of crystal lamp bases, wicker baby buggy, 2 large china cabinets, 2 singer sewing machines, Victorian settee, cream and gold urn, wooden table and 4 chairs. Best offer on all. Call (905)627-0898 or (905) 517-8851

**1870-1970 CHARLESWOOD** (Manitoba) Centennial trade dollar. Mint condition. Rare. \$30. 905-632-3917

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**ROCKER/RECLINER**, LIKE new, earth tones, \$75.00. Call 289-759-1715

**LADIES VINTAGE** clothing, sizes 8-12, \$100 obo, call 905-388-4363.

**1883-1958 MINNESOTA** Manitoba Trade dollar. 75th Anniversary. Mint condition. Rare. \$30. 905-632-3917

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**PERSIAN RUG SALE!**  
Great selection; runners, room size carpets and kilims. Aberfoyle Antique Market, Guelph. NON 2J0. Sunday 8-4. Info: Fredrick's Persian 519-372-3400

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**CRAFT SHELVES**, stackable two for \$15. 905-538-0498

**WASHER DRYER** pedestal with drawer. \$50 each L29. \$112. 905-387-4488

**SIDEBOARD TABLE** from Ikea, black, like new, 46 1/2" wide x 35 1/2" tall and 16 1/2" deep. 2 drawers, purchased 1 year ago, paid \$200. Sell for \$100. 905-975-7387

**1978 MANITOBA** Red River Indian Trade dollar (10th Ann). Mint condition. \$30. 905-632-3917

**EXERCISE EQUIPMENT**, 3 pieces, bike, voyageur 400 trainer, stair climber. \$80. 905-389-7570

**WALKER**, 4-WHEEL with basket, like new. \$95. Call 905-388-9704.

**WALKER**, 4-WHEEL with basket, like new. \$95. Call 905-388-9704.

**1978 WINNIPEG**, Manitoba (Ojibway Red River) Indian Trade dollar Sgt. Tommy Prince (1915-1977) Mint condition. Rare. \$75. 905-632-3917

**GOLF CLUBS** Pro Wilson, 10 irons, 4 Woods, bag and approx 50 balls. \$100. 289-389-8316

**2 LIVINGROOM** Customized Sofas. Like new and in excellent condition. Beige/cream colour. Must pick up \$300 each obo. Call 905-648-0968 or 905-515-9968

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905-338-0803  
905-563-6903

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**CHINA SET**, Mikasa "Beau Monde", beautiful set of china: 10 dinner plates, 9 soup bowls, 8 salad plates, 8 dessert bowls, 10 cups and saucers, salt and pepper, cream and sugar, butter dish, salad bowl and tea-pot with brass handle. \$300 for all. 905-975-7387

**DINING ROOM SET**, Broyhill. Table, leaf, 4 chairs, hutch, china cabinet, dark brown, wood. Excellent condition. \$500. WALL UNIT, 2 piece, oak. Excellent condition, \$400. Call 905-575-7846

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**Articles Wanted**

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**CASH PAID** - Old Toys, Dinky's, Matchbox, Wind-Ups, Tin Toys, etc. Old Canadian Coins, Silver Dollars, etc. Old Hockey Cards. Older Jewelry. Call 905-545-3657.

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# Notice Board

**Public Notices**

**Terrapure Stoney Creek Regional Facility Environmental Assessment Open House #3**

**You Are Invited!**

Open House on Proposed Changes to the Stoney Creek Regional Facility

**June 19, 2018 4:00 - 8:00 PM**

**Winterberry Heights Church**  
300 Winterberry Drive, Stoney Creek

Can't attend in person? Participate in our Online Open House June 19 to July 20 at [terraturestoneycreek.com](http://terraturestoneycreek.com)

This is an opportunity for you to ...

- Learn more about and give feedback on the detailed impact assessment of the preferred **Reconfiguration & Height Increase** option
- Review and provide input on proposed impact management measures and future monitoring

Terrapure Environmental (Terrapure) is proposing to increase the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario, under the *Environmental Assessment Act*. The preferred **Reconfiguration and Height Increase** option would increase the capacity of the Stoney Creek Regional Facility by 3.68 million m<sup>3</sup>. The preferred option was confirmed based on technical feasibility, low net environmental effects and input received from the community, review agencies and Indigenous communities.

This is the final of three Open Houses being held during the Environmental Assessment. Feedback received during this Open House will be used to refine the details for the design and operations of the proposed capacity increase. Once complete, the draft and final Environmental Assessment Report will be provided to the public and stakeholders for review.

The Environmental Assessment is being conducted in accordance with the Amended Terms of Reference (approved by the Minister of the Environment and Climate Change on November 9, 2017) and the *Environmental Assessment Act*.

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the MOECC for the purpose of transparency and consultation. The information is collected under the authority of the *EA Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the MOECC's Freedom of Information and Privacy Coordinator at (416) 327-1434.

**Alternative Formats of this Notice are Available upon Request**

**Questions? Contact Us!**

**Contact:** Kim Bailey, Terrapure Environmental  
**Address:** 65 Green Mountain Road West, Stoney Creek, ON L8J 1X5  
**Email:** [info@terraturestoneycreek.com](mailto:info@terraturestoneycreek.com)  
**Phone:** 1-844-898-2380  
**Fax:** 905-549-4515

Visit our website for more information on this project: [www.terraturestoneycreek.com](http://www.terraturestoneycreek.com)

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**Stoney Creek**

**L8E00004** - Berkindale Dr, Bow Valley Dr, Highridge, Honeywell Dr - 97 customers  
**L8E00011** - Dewitt Rd, Greening Ave, Juniper Dr, Spartan Ave - 81 customers  
Call Joe Genovese at 905-526-4651 or email [jgenovese@thespec.com](mailto:jgenovese@thespec.com)

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**East Hamilton**

**L8H00011** - Armstrong Ave, Blair Ave, Glengrove Ave, Martha St - 66 customers  
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**East Mountain**

**L8J00001** - Gumwood Pl, Kingsview Dr, Meadow Wood Cres, Old Mud St, Tamwood Cr - 82 customers  
**L8T00028** - Beacon Ave, Brentwood Dr, Burfiels Ave, Endfield Ave, Mohawk Rd E - 97 customers  
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**Central Hamilton**

**L8N00003** - Erie Ave, Grant Ave, Ontario Ave, Stinson St, Tisdale St S - 85 customers  
**L8M00015** - Balmoral Ave S, Grosvenor Ave S, Ottawa St S - 110 customers  
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**West Hamilton**

**L8P00010** - Duke St, Herkimer St, Queen St S - 60 customers  
**L8P00012** - Bold St, Charlton Ave W, Robinson St - 68 customers  
Richard Barnett at 905-526-4640 or email [rbarnett@thespec.com](mailto:rbarnett@thespec.com)

**REGENCY Crt**  
Burlington  
1 & 2 BR  
905-681-8115

**West Mountain**

**L9A00037** - Benedict Pl, Lorenzo Dr, Stone Church Rd E, Towercrest Dr - 70 customers  
**L9C00042** - Gardiner Dr, Gemini Dr, Novoco Dr, Vespari Pl - 88 customers  
Dean Adams at 905-526-4640 or email [dadams@thespec.com](mailto:dadams@thespec.com)

**Articles Wanted**

**ALL TEAK** furniture wanted, antiques, watches, paintings, silver dollars, gold, sterling silver, Doultons, jewelry, Swarovski figurines, old toys, musical instruments. We buy it all. 905-979-4447.

**Ancaster**

**L8H00021** - Albany Ave, Britannia Ave, Frederick Ave, Robins Ave, Argyle Ave, Fraser Ave - 130 customers  
**L8K00021** - Adair Ave S, Beland Ave S, Glencarry Ave, Reid Ave S - 60 customers  
Call Bruce Greer at 905-526-4652 or email [bgreer@thespec.com](mailto:bgreer@thespec.com)

**Articles Wanted**

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**Looking For Work? Do Not Miss! Jobs Canada**

**Hilton Job Fair:**  
Wed. June 20th 1pm-3pm  
Hilton Hamilton Hotel  
40 Bay St., south Hamilton L8P 0B3

Questions 1.877.628.0740  
[www.jobscanadafair.com](http://www.jobscanadafair.com)

**Articles Wanted**

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**Drivers**

**AZ & DZ Drivers**  
req'd Full time at our busy construction company. We offer competitive wages & benefits. Clean abstract & CVOR a must. DZ drivers should have dumping exp. Exp'd AZ Triaxle with float exp. Exp'd AZ drivers with Live Bottom exp. Please send resume to [christine@associatedpaving.com](mailto:christine@associatedpaving.com) or call 905-637-1966 ext 224

**Articles Wanted**

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**Local Well Established Roofing and Siding Co.**  
Looking for Installers for residential roofing and siding. Sub contracts or payroll. Call Gerry's Roofing & Siding Inc. at: 905-549-7112

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**Convenient That's Classified!**

**Articles Wanted**

**ALL TEAK** furniture wanted, antiques, watches, paintings, silver dollars, gold, sterling silver, Doultons, jewelry, Swarovski figurines, old toys, musical instruments. We buy it all. 905-979-4447.

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**AESTHETICIAN**, START A New Career! Manicure, pedicure, nails, make-up, body massage, body wrap. Financial assistance to those who qualify. Diploma. 905-923-6687 553 Barton St. East.

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**Your Best Source For Local Jobs Localwork.ca**

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**ALL TEAK** furniture wanted, antiques, watches, paintings, silver dollars, gold, sterling silver, Doultons, jewelry, Swarovski figurines, old toys, musical instruments. We buy it all. 905-979-4447.

**StarMetroLand Media**

**Articles Wanted**

**ALL TEAK** furniture wanted, antiques, watches, paintings, silver dollars, gold, sterling silver, Doultons, jewelry, Swarovski figurines, old toys, musical instruments. We buy it all. 905-979-4447.

**StarMetroLand Media**



# **APPENDIX C**

## **EA Public Open House #3**

### **Consultation Material**



# Welcome

## Terrapure Stoney Creek Regional Facility Environmental Assessment

### Public Open House #3

Tuesday, June 19, 2018





# About Terrapure Environmental



Terrapure Environmental is a leading Canadian provider of innovative, cost-effective environmental services and recycling solutions that help address industry's most complex environmental challenges.



Headquartered in Burlington, Ontario, Terrapure has an exemplary record and unwavering focus on health, safety and environmental excellence.



The company provides services that minimize waste and maximize the recovery or recycling of valuable industrial by-products through a coast-to-coast facility network.



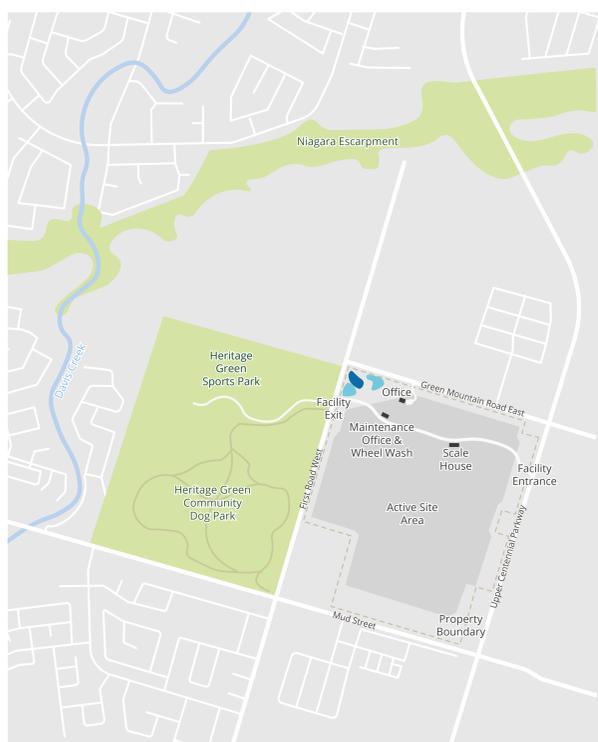
The current Stoney Creek Regional Facility site generates the following economic benefits for the Hamilton area:

- \$28 million per year in total economic activity
- \$18 million per year in value-added (GDP)
- 51 local jobs created, earning a total of \$2.5 million per year in wages
- \$2 million per year in local taxes, royalties and fees





# Terrapure Stoney Creek Regional Facility



- The Stoney Creek Regional Facility is located at 65 Green Mountain Road West in Hamilton
- It has been in operations since 1996
- 50% of materials received comes from customers in the City of Hamilton
- The site is engineered with a state of the art<sup>1</sup> double-liner system to ensure environmental protection
- In April 2017, a Closure Plan Advisory Panel was formed and includes the City of Hamilton and the Hamilton Conservation Authority

## Fast Facts About the SCRF

**478,655t**

of materials received  
in 2016 

SCRF is permitted to receive  
750,000 tonnes of material/year

**3,106t** 

max materials received  
in one day

SCRF is permitted to receive  
8,000 tonnes/day maximum

**70-80**  trucks

of materials received  
every day

SCRF is permitted to receive  
250 trucks/day maximum

## Materials Accepted

### Permitted Materials

- ✓ Solid (not liquid) material
- ✓ Non-hazardous material
- ✓ From industrial, commercial and institutional sources

### Non-permitted Materials

- ✗ Household waste
- ✗ Putrescible (decomposing) waste
- ✗ Generated outside of Ontario

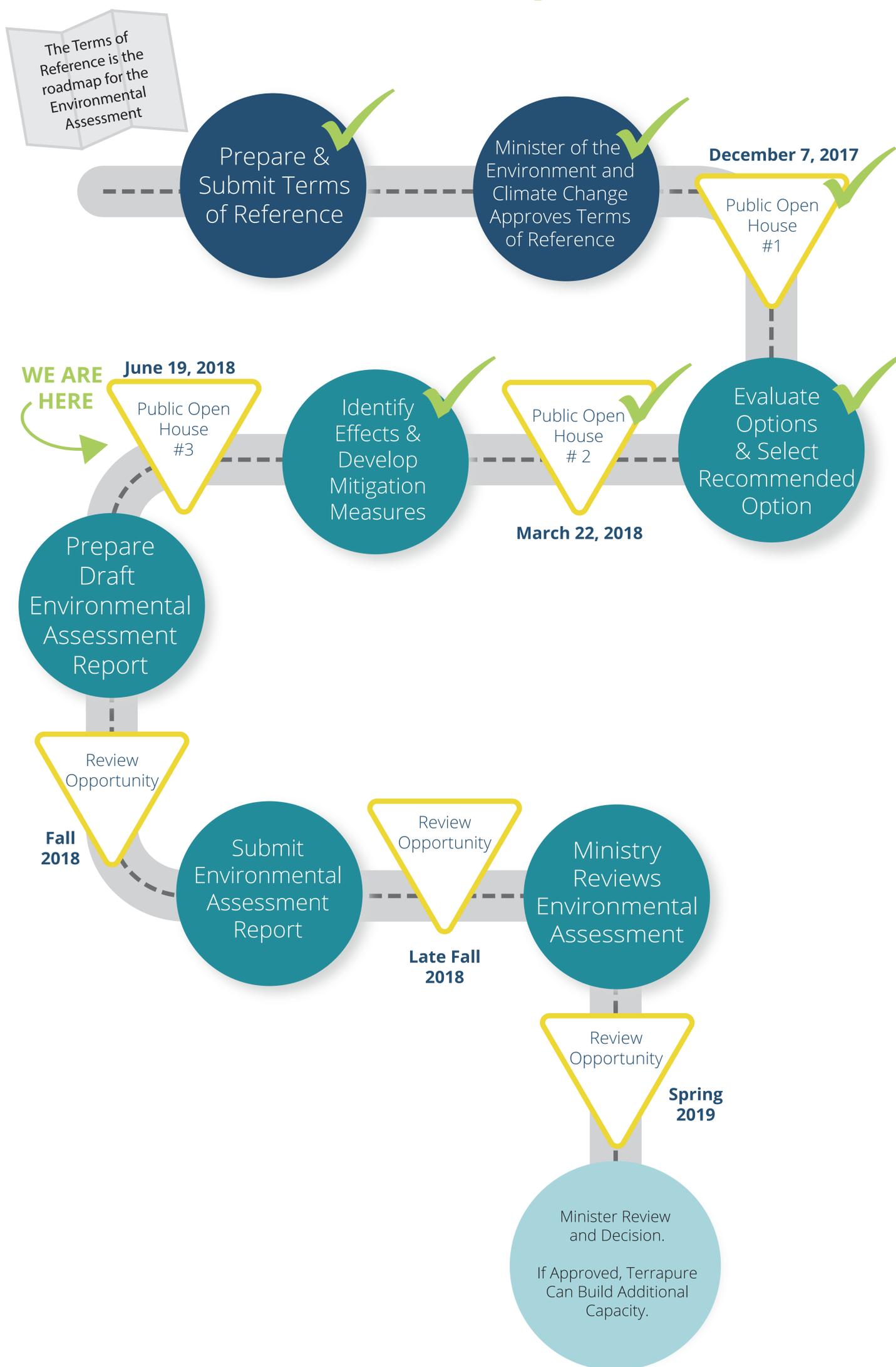
### Types of Waste

- Steel slag and BOF oxides
- Contaminated soil
- Demolition waste
- Other mixed residuals (industrial and commercial)





# Environmental Assessment Road Map



## This Open House is an opportunity for you to...

- Learn more about and give feedback on the detailed impact assessment of the preferred option
- Review and provide input on proposed impact management measures and future monitoring



## Since Open House #2, Terrapure has...

- 1 Confirmed the Preferred Option taking into consideration feedback from members of the community, agencies, and Indigenous groups
- 2 Carried out additional technical work to refine the design and specifications of the proposed capacity increase
- 3 Completed the environmental studies to confirm impacts and develop impact management measures and monitoring plans

### Today Terrapure is...

- 4 Presenting the results of the impact assessment of the Preferred Option

## Highlights of Community Feedback



### Present Technical Information in Public-Friendly Way

- Terrapure is making efforts to increase the level of understanding for this EA. We have recently released two videos, one on current operations and the other on environmental controls, as well as a new drone video with visual details of the proposed capacity increase

### Concern with the Views of the SCRF

- We are looking for your feedback on the screening techniques being considered for the proposed capacity increase

### Regularly Update Maps & Figures

- Terrapure is taking measures to ensure maps and figures are regularly updated to reflect the most up-to-date information in our reports, including the latest road networks

### Consider Revising Rank for “Effect of Views” Criteria

- Terrapure has modified the comparative evaluation for the “Effect of Views of the Facility” for Option 5 from yellow (low negative net effect) to orange (medium negative net effect)

### Opposition to Any of the Expansion Options

- The purpose of the undertaking, to assess the various ways of increasing the capacity for residual materials at the SCRF, was established in the Minister-approved Terms of Reference. This capacity increase is based on a need for continued disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area

### Consider No Height Increase

- We understand the community’s concerns around height and we will implement impact management measures to minimize the visibility of the SCRF. The preferred option has a lower height increase compared to other options with low environmental impacts



## Proposed Changes to the Facility

Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup>.

Currently, the SCRF is permitted to receive both industrial fill and residual material. Terrapure only accepts material that cannot otherwise be reasonably diverted.

### Preferred Option 5: Reconfiguration & Height Increase



Figure not to scale

- Replaces industrial fill with residual material
- An additional 3.68 million m<sup>3</sup> of residual material
- Height increase of approximately 2.5 m
- Maintains current buffer areas

## Why is Option 5 Preferred?

- Technically feasible design
- Meets the proposed capacity increase being sought through the EA
- Height increase can be screened through constructed berms, tree plantings, fencing, etc.
- Effects to the natural environment and surrounding community can be minimized by impact management measures
- May provide an additional \$14 million in funding to the Heritage Green Community Trust and the City of Hamilton Royalty Fee Program



# Impact Assessment of Preferred Option

## Land Use, Visual, and Economic

- No changes anticipated to land uses in the surrounding community as a result of the SCRF
- The increased visibility of the SCRF from some locations in the surrounding community will be minimized with visual screening
- Anticipated contribution of between \$349 and \$372 million to the local economy
- May provide an additional \$14 million in funding to the Heritage Green Community Trust and the City of Hamilton Royalty Fee Program

## Proposed Impact Management Measures, Monitoring and Commitments

- Install visual screening techniques such as earth berms, vegetation, fences around the perimeter to obscure views of the facility
- Continue best management practices such as stormwater management system, double-liner system, dust and noise controls

In addition to the existing berms, trees and fencing, Terrapure is considering additional visual screening techniques to minimize views of the facility.



*Existing Fencing on Upper Centennial Parkway*



*Existing Vegetation Screening on Green Mountain Road*



*Fencing with Hedge Screen*



*Fencing with Live Vegetation*



*Mechanically Stabilized Earth Berm*



*Green Wall*



# Impact Assessment of Preferred Option

## Geology and Hydrogeology

- Existing groundwater quality and groundwater flow will remain unchanged
- Source Water Protection Areas are not anticipated to be affected

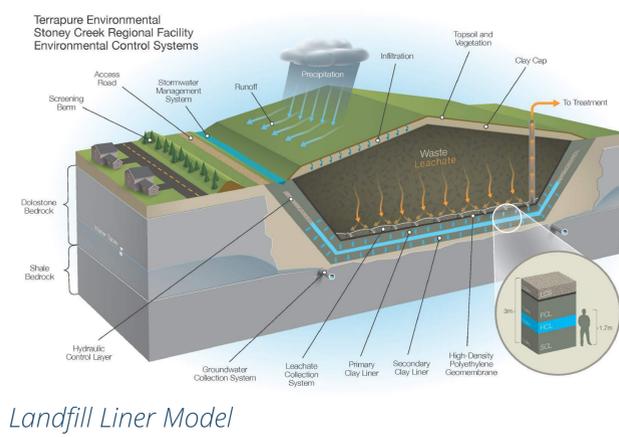
### Proposed Impact Management Measures, Monitoring and Commitments

Groundwater will continue to be managed and protected by a:

- State-of-the-art 3 metre double-liner system
- Network of groundwater collection trenches and containment wells
- Comprehensive monitoring program to ensure no off-site migration and to verify groundwater levels



Landfill Liner Construction



Groundwater Monitoring

## Surface Water

- Modify the existing stormwater management system to accept the minor increase in surface water run off

### Proposed Impact Management Measures, Monitoring and Commitments

- Modify the existing stormwater management system to continue to collect and treat precipitation that falls on the SCRF before being discharged off-site to the City of Hamilton's storm system
- Continue to monitor existing surface water sampling locations and any additional sampling locations required due to modifications to the stormwater management system
- Apply for applicable permits/approvals for the modifications to the stormwater management system



Stormwater Management Pond



Surface Water Monitoring

## Archaeology and Built Heritage

- The Ministry of Tourism, Culture and Sport has confirmed "that no cultural heritage resources would be adversely affected" by the proposed capacity increase



# Impact Assessment of Preferred Option

## Terrestrial and Aquatic Environment

- Temporary impacts during construction and operation to vegetation, wildlife habitat, aquatic habitat, and aquatic biota will be minimized

### Proposed Impact Management Measures, Monitoring and Commitments

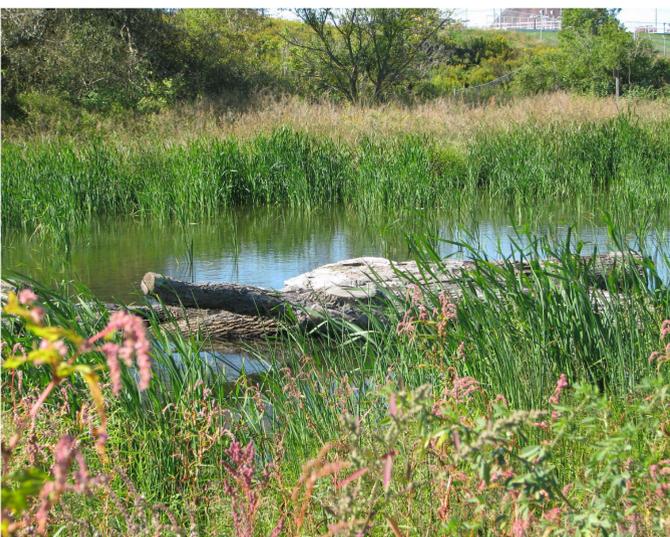
- Continue to consult with the Ministry of Natural Resources and Forestry to minimize loss of Eastern Meadowlark bird habitat in compliance with the *Endangered Species Act*
- Install protective fencing when constructing near trees that are not being removed
- Where possible salvage plant materials for restoration
- Compensate for loss of vegetation in areas that can be re-vegetated
- Conduct any vegetation removal outside of the breeding bird window
- During the design and construction of the stormwater management system:
  - Incorporate natural landscape features
  - Characterize aquatic features and obtain necessary approvals, if required
  - Install erosion and sediment control measures to mitigate impacts to water quality and to act as wildlife fencing prior to construction



Tree Protection



Graminoid Meadows



Natural Restoration



Erosion and Sediment Control Fencing

## Transportation

- SCRF truck traffic will have a nominal impact on future intersection level service
- SCRF truck traffic will be restricted from Green Mountain Road
- Truck traffic from the SCRF will not exceed approved limit of 250 vehicles/day
- Average of 70-100 daily trucks anticipated



Study Intersections

### Proposed Impact Management Measures, Monitoring and Commitments

- Continue to enforce low speed limits on-site
- Sidewalks planned by the City of Hamilton on First Road West and Green Mountain Road will enhance pedestrian safety



# Impact Assessment of Preferred Option

## Atmospheric Environment (Air Quality and Odour)

- A minor decrease in air quality off-site due to dust which will be mitigated
- No off-site odours anticipated

### Proposed Impact Management Measures, Monitoring and Commitments

#### Continue to implement existing Dust Management Measures

- Water and sweep on-site roads to control road dust
- Cover vehicles transporting waste to the SCRF to prevent odour and dust
- Ensure vehicles pass through on-site wheel-wash to minimize dirt track-out from the SCRF
- Limit vehicle speeds on on-site roads to minimize road dust
- Use ongoing particulate monitoring so that daily vehicle traffic does not result in poor air quality levels

#### Implement Additional Dust Management Measures

- Pave new and/or moved on-site roads
- Restrict vehicle traffic near the buffer areas

#### Continue to Implement Current Air Quality Monitoring Plan

- Monitor air quality on-site by measuring airborne particulate PM<sub>10</sub> (dust) and meteorological conditions
- Monitor and respond to dust and odour issues at the SCRF



Wheel Well Wash



Road Sweeper



Road Watering Truck

## Atmospheric Environment (Noise)

Potential increase to off-site noise from the following, which will be minimized:

- Increase in elevation
- Decrease in the separation distance between the landfill activities and adjacent residential properties to the north of the SCRF

### Proposed Impact Management Measures, Monitoring and Commitments

- Add noise barrier (berm, wall, etc.) progressively to the north property line to reduce noise impacts, as required
- Continue to complete semi-annual noise monitoring
- Investigate the conditions and/or sources contributing to any noise complaints



On-site Weather and Dust Monitors



Berm used as Noise Barrier and Visual Screening



# Impact Assessment of Preferred Option

## Human Health

- No impact anticipated from leachate, groundwater, surface water, or soil
- No impact anticipated from air quality (i.e., dust) with standard planned dust management measures



## Proposed Impact Management Measures, Monitoring and Commitments

- Implement additional dust management practices as needed
- Continue to conduct annual Community Health Review Assessments

## Cumulative Effects

- Terrapure completed a cumulative effects assessment as part of the SCRF EA using an accepted methodology, typically utilized for a Federal EA
- Cumulative effects are those likely to result from the proposed capacity increase in combination with other projects or activities that have been or will be carried out by proponents (i.e., residential development and road works) other than Terrapure which are reasonably foreseeable
- Based on the implementation of impact management measures proposed for the SCRF, it was determined that the proposed capacity increase in conjunction with other projects in the area, is not likely to cause significant adverse cumulative environmental effects

## Climate Change Adaptation & Mitigation

Terrapure has completed an analysis of the proposed capacity increase from a climate change adaptation and mitigation perspective. The preferred option is not anticipated to have an effect on climate change. However, Terrapure is committed to:

### Reducing our carbon impact including:

- Anti-idling policy
- Where possible use materials that have a lower carbon footprint and that have a long lifespan
- Minimize the size of the active landfill area
- Replace vegetation that is removed and plant additional vegetation to create a carbon sink

### Implement adaptation measures including:

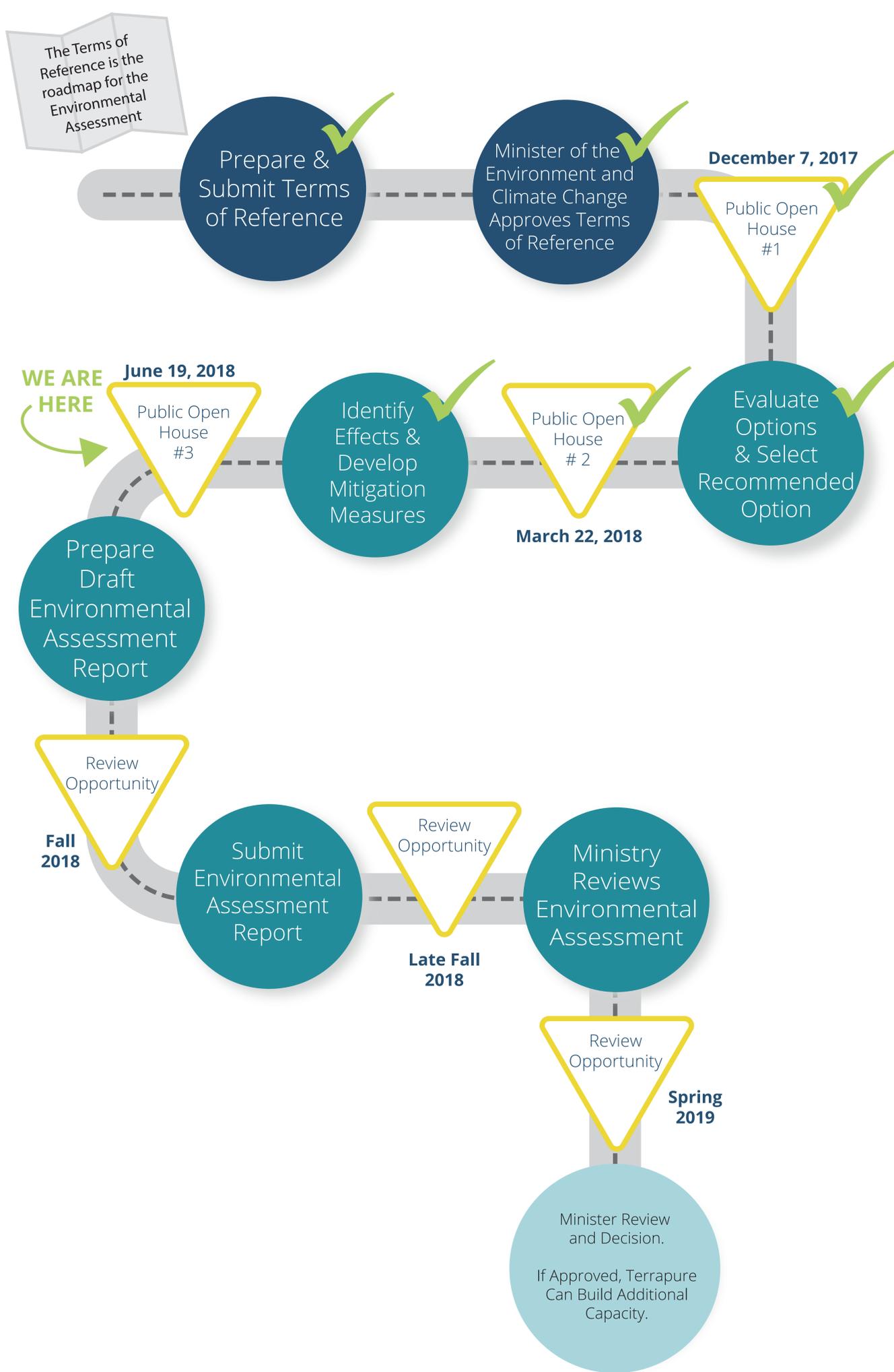
- Choose vegetation known to withstand erosion and climate stressors such as extreme heat, drought tolerance, and flood resistance
- Plant additional vegetation every five to ten years
- Modify existing stormwater management ponds to account for 100-year storms



## What's Next?

There are three more opportunities to comment on this EA including:

1. During review of the Draft Environmental Assessment Report (6 weeks)
2. During review of the Final Environmental Assessment Report (7 weeks)
3. Prior to the Minister review and decision of the Final Environmental Assessment Report (5 weeks)

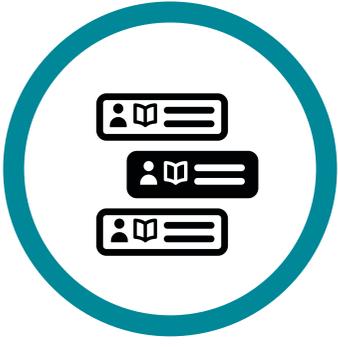


## In the coming months, we will...

- Respond to comments received
- Confirm the impact management measures and recommended monitoring programs in light of comments received
- Prepare the Draft Environmental Assessment Report
- Notify stakeholders of review opportunities
- Provide impact assessment results to Dr. Kerry Rowe, Queen's University for Peer Review



## Proposed Consultation Methods for the EA



### Stakeholder Interviews

We are conducting interviews with interested/potentially affected stakeholders to hear their perspectives



### Individual Meetings

Meetings between the project team and stakeholders are available



### Website

Visit the project website at:  
**terrapurestoneycreek.com**



### Toll-Free Phone Number

A toll free phone line is available at  
**1 844-898-2380**



### Notices and Mail-outs

Notices will be mailed and advertised at key project milestones



### Open Houses

Open Houses are held for in depth project discussions

**How else should we consult with you?  
Fill out a comment sheet with your contact information to stay informed about the project.**

### Public Stakeholders

Includes adjacent property owners, area residents and businesses, beneficiaries of Terrapure funding and other non-government organizations.

### City of Hamilton

Department staff and elected officials from the City are key stakeholders.

### Community Liaison Committee (CLC)

The CLC is composed of community representatives, elected officials, MOECC district staff and Terrapure representatives.

### Indigenous Communities

Includes the Six Nations of the Grand River, the Mississaugas of the New Credit, the Haudenosaunee Confederacy and the Métis.

### Review Agencies

The Ministry of the Environment and Climate Change (MOECC) and other Municipal, Provincial and Federal agencies.



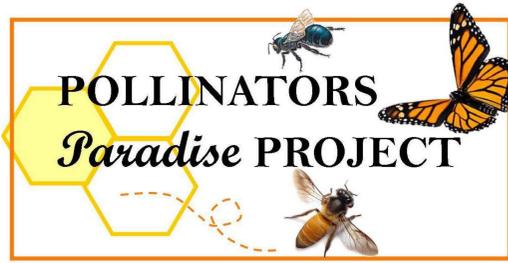
# Terrapure Pollinator Paradise Project



Pollinators such as bees and butterflies are essential for agriculture and wild ecosystems. Yet, their populations are in rapid decline due to loss of habitat and food sources, disease and pesticides.

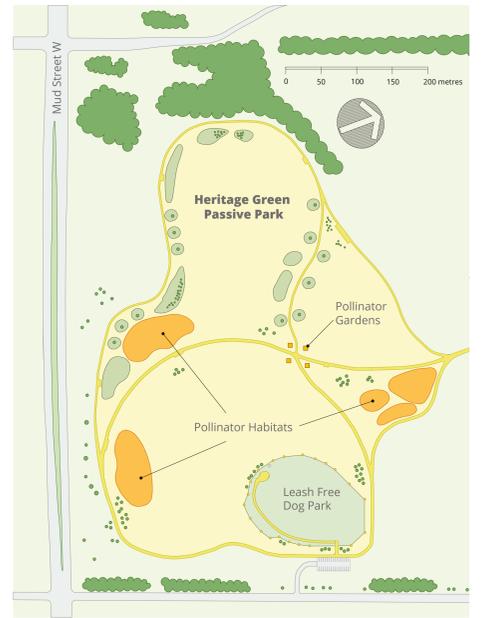


Terrapure, in partnership with Environment Hamilton and Hamilton Naturalists' Club, is helping address this critical issue.



We are creating pollinator friendly gardens of milkweed and wildflowers at the Heritage Green Passive Park (a closed landfill).

Gardens provide an important and much-needed habitat to attract pollinators.



The goal is to create a “pollinator highway,” an uninterrupted haven of native plants that will provide food and shelter for pollinators across Hamilton.

## For More Information...



Visit our Website  
[terraturepollinatorparadise.com](http://terraturepollinatorparadise.com)



Follow us on Instagram  
[@pollinator\\_paradise\\_project](https://www.instagram.com/pollinator_paradise_project)



## Investment in Stoney Creek

Over its history, Terrapure has provided over **\$23 million** to the City of Hamilton and the Heritage Green Community Trust.

For every tonne of residual material received at the facility, \$1 goes to the City of Hamilton Royalty Program and \$1 goes to the Heritage Green Community Trust.

To apply for a grant visit [www.heritage-green.org](http://www.heritage-green.org)



**\$1.2 Million**  
to the Valley Park  
Library and Community  
Centre Renovations



**\$6,650**  
to the 2016 Stoney Creek  
Santa Claus Parade



**\$3.6M** to Hamilton  
Conservation  
Foundation  
and Hamilton  
Conservation  
Authority



**\$960,000**  
to the Heritage Green  
Community Trust  
Passive and Leash-Free  
Dog Park



**\$60,000**  
to the Friends of  
the Eramosa Karst  
“Hedge Fund” for  
planting trees

*“On behalf of our schools and students, I would like to thank Terrapure for your generous support. The students involved in the Bishop Ryan Celt-X Robotics team as well as our elementary students who participated in the Mad Science “Love Your Lungs” Project have benefitted a great deal from the grants you have provided.”*  
Patrick Daily, HWCSB Board Chair (May, 2017)

- Since 2012, the Heritage Green Community Trust has awarded 41 scholarships totalling **\$102,500** to area students
- From 2001-2015, Terrapure provided **\$5 million** in funding to support schools, sports programs, recreational facilities and parks, and events
- Direct annual support to various community causes and events including the United Way, Tim Horton’s Camp Day and Camp Trillium

# Heritage Green Community Trust

## Project Highlight



### Saltfleet Conservation Area Program



In 2014, the Heritage Green Community Trust and Terrapure's City of Hamilton Royalty Program contributed \$4 million to purchase land for the new Saltfleet Conservation Area

- This land acquisition will address flooding and erosion issues in Upper Stoney Creek
- The project will create four wetlands in Upper Stoney Creek to protect residential properties below the escarpment
- The project is in development and will break ground within the next 5-10 years



# Heritage Green Community Trust

## Project Highlight



### Eramosa Karst Conservation Area

The Heritage Green Community Trust donated \$1.5 million to pay for the development and long-term maintenance of the conservation area.

The Eramosa Karst Conservation area opened on June 20, 2008 as a Cornerstone of Hamilton Conservation Authority's 50th anniversary celebration, thanks to contributions from the HGCT.



The 180-acre Eramosa Karst Conservation Area contains the largest number of unique features in any single area in the province.

#### What is Karst?

"Karst" comes from a Slavic word that means barren, stony ground. A karst landscape most commonly develops on limestone, because it is a softer sedimentary rock which is easily eroded over time by water.

*"Their gift is truly a remarkable legacy for our community and represents the largest financial contribution the Foundation and Hamilton Conservation Authority has ever received."*

Matt Casey, Chairman of Hamilton Conservation Foundation



# Heritage Green Community Trust

## Project Highlight



### Schools and Scholarship Program



The scholarship program has given \$127,500 to local students since its inception in 2012.

The HGCT has awarded a total of \$353,739.09 to various schools and programs in the Upper Stoney Creek community.

The Heritage Green Community Trust believes in giving back to the community of Upper Stoney Creek. What better way to give back than to promote continuous learning and higher education to the students living in our area?

# Heritage Green Community Trust

## Project Highlight



## Valley Park Library Renovation



The Heritage Green Community Trust has contributed \$1.25 million towards the cost of construction for two new multi-purpose rooms as part of major renovations to the Valley Park Library.

The multi-purpose rooms will be about 1,500 square feet each and available for various programming opportunities. Construction is scheduled to begin in Fall 2018.

Without the Trust's contribution to the project, the library would not be able to include these multi-purpose rooms.





## About Terrapure and the Proposal at a Glance



### **Who:**

Terrapure Environmental (Terrapure) is a leading Canadian provider of innovative, cost-effective environmental services and recycling solutions that help address industry's most complex environmental challenges.

The company's Stoney Creek Regional Facility (SCRF) receives residual material from industry and infrastructure projects, primarily from customers within the City of Hamilton.



### **What:**

Terrapure is in the process of completing an Individual Environmental Assessment (EA) seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup> accepted on-site. Throughout this process there will be extensive consultation with the community and other stakeholders.



### **When:**

Terrapure began the Terms of Reference step in June 2016. The Environmental Assessment phase began in November 2017. We expect that the EA Report will be submitted to the Minister of the Environment and Climate Change for review and approval by late fall 2019.



### **Where:**

The Stoney Creek Regional Facility is located at 65 Green Road West in Hamilton and has been in operation for the last 21 years.



## Benefits to the Community and the Economy

Terrapure is proposing to add capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup> accepted on-site. If approved this proposal bring advantages to the City of Hamilton, the local economy and the community of Upper Stoney Creek, including:

### Community of Upper Stoney Creek

- Total additional payments of \$7 million to the Heritage Green Community Trust (HGCT) to support local charitable, educational and community initiatives.
- This is in addition to the \$11 million invested in the community by Terrapure to date.



### City of Hamilton

- Total additional payments of \$2.2 million per year or \$22-24 million over the potential future life of the facility.
- Additional royalty payments for every tonne of material received each year at the SCRF totalling \$7 million over the potential future life of the facility. In addition to the \$11 million paid by Terrapure to the City to date.
- Continue to support City of Hamilton development / redevelopment projects.



### Hamilton Economy

- Continue to support the growth needs of the local economy. Approximately 50% of the residual material received each year at the SCRF comes from Hamilton-based customers
- If the proposal does not proceed, the additional costs to local industry beginning around 2020 is estimated to be between \$5 million and \$17 million per year to transport and dispose of residual materials at other facilities.
- Continue to generate over \$29 million per year or a total of \$350 million to \$370 million over the potential future life of the facility in economic activity in the City of Hamilton.



generously funded by  terrapure

*"On behalf of our schools and students, I would like to thank Terrapure for your generous support. The students involved in the Bishop Ryan Celt-X Robotics team as well as our elementary students who participated in the Mad Science "Love Your Lungs" Project have benefitted a great deal from the grants you have provided."  
Patrick Daily, HWCSB Board Chair (May, 2017)*



## The Stoney Creek Regional Facility Engineered Liner System

The Stoney Creek Regional Facility is a highly engineered site. In fact, its design has been called “state of the art” by an independent panel of experts.

The site includes a double-liner system that ensures maximum environmental protection. There are two layers of liner that act as a barrier between the waste and the natural environment. Together, these two layers are approximately 3 metres or 10 feet thick.

**We have been in operation for 20 years and have never had an incident affecting human health or the environment**

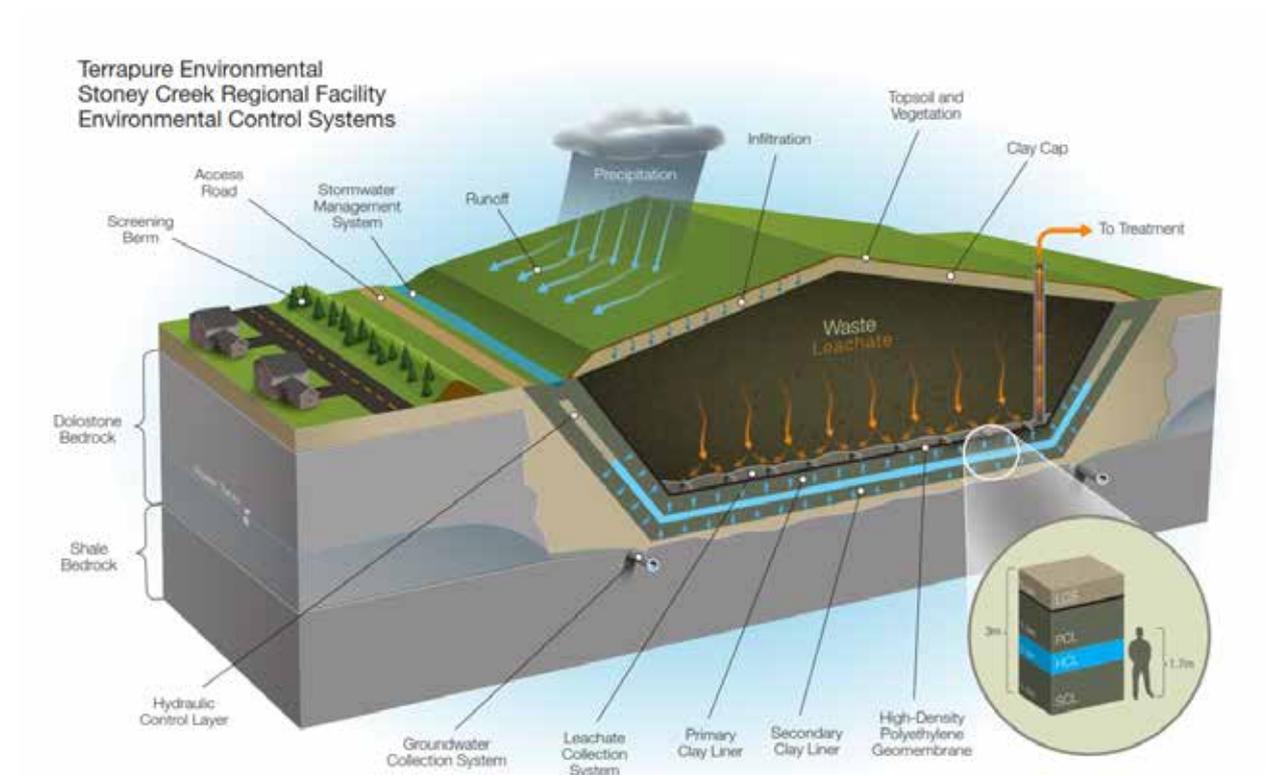
### TERRAPURE STONEY CREEK REGIONAL FACILITY Engineered Liner System



- ▶ **1. THE LEACHATE COLLECTION SYSTEM**  
A 0.35 m (1.15ft) layer of 19 mm clear stone, 0.15 m (0.5 ft) of Granular 'A' and a network of 200 mm diameter perforated HDPE pipe to collect leachate from within the site. The collected leachate is discharged to an appropriate licenced treatment facility.
  - ▶ **2. THE SYNTHETIC LINER**  
A continuous 80 mil high-density polyethylene membrane with welded seams.
  - ▶ **3. THE PRIMARY CLAY LINER**  
A 1m (3.3ft) layer of recompacted clay that meets rigorous density and moisture requirements.
  - ▶ **4. THE HYDRAULIC CONTROL LAYER**  
A 0.5m (1.65 ft) layer of 50mm (2") clear stone. Once landfilling is complete, the Hydraulic Control Layer is filled with water to maintain hydraulic pressure outside the site, forcing water to flow toward the landfill and ensuring no discharges to the environment.
  - ▶ **5. THE SECONDARY CLAY LINER**  
A 1m (3.3 ft) layer of recompacted clay that meets rigorous density and moisture requirements.
  - ▶ **6. THE GROUNDWATER COLLECTION SYSTEM (Not Shown)**  
A series of trenches filled with crushed stone beneath the site to facilitate groundwater pumping.
- THE FINAL COVER SYSTEM (Not Shown)**  
Once complete, the site will have a cap consisting of 0.6 m (1.97 ft) of recompacted clay and 0.15 m (0.5 ft) of vegetated topsoil.

## The SCRF Engineered Liner System

The highly engineered site ensures maximum environmental protection through a double-liner system and extensive leachate and groundwater collection systems. Below is a cross-section of the landfill site which shows the environmental controls in place to protect the natural environment and the surrounding community.



Berm is a mound of earth that visually blocks the view of the SCRF

Shale Bedrock is a mix of clay and parts of other minerals

Hydraulic Control Layer (HCL) is confined between the two compacted clay liners and is used to create a “hydraulic trap” and to monitor for unexpected leakage through the primary liner during the Facility-operating period

Leachate is water that passes through the waste

High-Density Polyethylene Geomembrane is a liner used to contain the leachate

Dolostone Bedrock is sedimentary carbonate rock composed mostly of the mineral dolomite

Stormwater is water that comes from rain and snow, and flows over land and into drainage systems

Primary Clay Liner (PCL) and Secondary Clay Liner (SCL) are naturally dense layers of clay material used to contain leachate

## Comparative Evaluation of Options Summary (Revised)

	Environmental Component	Evaluation Criteria	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
<b>Built</b>	<b>Land Use</b>	Effect on existing land uses	●	●	●	●	●	●
		Effect on views of the facility	●	●	●	●	●	●
		<i>Rationale</i>	Options 1,2,and 4 are all more preferred because there is either no proposed height increase or a relatively low height increase and the views can be minimized through screening. Option 5 includes a greater height increase and views can be minimized through screening. Options 3 and 6 are less preferred because there is a relatively greater height increase and the views cannot be fully minimized through screening.					
<b>Economic</b>	<b>Economic</b>	Effect on approved/planned land uses	●	●	●	●	●	●
		Economic benefit to the City of Hamilton and local community	●	●	●	●	●	●
		<i>Rationale</i>	Options 3,5 and 6 are all more preferred because they would yield the highest benefit to the City of Hamilton and local economy in terms of economic activity and jobs. Options 1, 2 and 4 are less preferred because they all result in the lowest economic benefit to the City and local economy.					
<b>Cultural</b>	<b>Archaeology and Built Heritage</b>	Effect on known or potential significant archaeological resources	●	●	●	●	●	●
		Effect on built heritage resources and cultural heritage landscapes	●	●	●	●	●	●
		<i>Rationale</i>	All Options are equally preferred from a Cultural Environment perspective because no cultural or heritage landscapes would be disturbed or displaced and the site has been previously excavated and disturbed for quarrying. Therefore, no archaeological resources would be adversely affected.					
<b>Natural</b>	<b>Geology &amp; Hydrogeology</b>	Effect on groundwater quality	●	●	●	●	●	●
		Effect on groundwater flow	●	●	●	●	●	●
		<i>Rationale</i>	All Options are equally preferred from a groundwater quality and flow perspective because no adverse effects are expected.					
	<b>Surface Water Resources</b>	Effect on surface water quality	●	●	●	●	●	●
		Effect on surface water quantity	●	●	●	●	●	●
		<i>Rationale</i>	Options 1,3 and 5 are all more preferred because they maintain the site's existing stormwater management ponds. Options 2, 4 and 6 are all less preferred because the site's existing stormwater management ponds would need to be relocated/redesigned to accommodate the proposed footprint.					
	<b>Terrestrial &amp; Aquatic Environment</b>	Effect on terrestrial ecosystems	●	●	●	●	●	●
		Effect on aquatic ecosystems	●	●	●	●	●	●
		<i>Rationale</i>	All Options are equally preferred because they would all have a low potential for adverse effects to the terrestrial and aquatic ecosystems, which would be further minimized through the use of standard mitigation measures.					

	Environmental Component	Evaluation Criteria	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6
Natural	Atmospheric Environment	Effect of air quality on off-site receptors	●	●	●	●	●	●
		Effect of odours on off-site receptors	●	●	●	●	●	●
		Effect of noise on off-site receptors	●	●	●	●	●	●
		<i>Rationale</i>	All Options are equally preferred because there would be a low potential for adverse effects to area residents from a dust and noise perspective, which would be further minimized through the use of standard mitigation measures and no effects from an odour perspective.					
Social	Transportation	Effect on traffic	●	●	●	●	●	●
		<i>Rationale</i>	All Options are equally preferred because the number of trucks permitted at the site would remain unchanged resulting in no adverse effects on road user safety or intersection capacity.					
	Human Health	Air Quality	●	●	●	●	●	●
		Leachate Quantity	●	●	●	●	●	●
		Groundwater Quality	●	●	●	●	●	●
		Surface Water Quality	●	●	●	●	●	●
		Soil Quality	●	●	●	●	●	●
<i>Rationale</i>	Option 3 is considered preferred from a human health perspective. All other options are considered less preferred, but would have a low potential for adverse effects with the continuation of the existing site's mitigation measures augmented with additional Best Management Practices, where proposed, and on-going monitoring.							
Technical	Design & Operations	Potential to provide service for disposal	●	●	●	●	●	●
		Leachate Management	●	●	●	●	●	●
		Stormwater Management	●	●	●	●	●	●
		Construction	●	●	●	●	●	●
		Site Operations	●	●	●	●	●	●
		Closure and Post-Closure	●	●	●	●	●	●
		Cost of facility	●	●	●	●	●	●
		<i>Rationale</i>	Options 3 and 5 are both considered more preferred compared to the other Options from a design and operations perspective including their ability to provide the additional capacity being sought through the EA, but Option 3 is more preferred because it would be easier to construct and have a lower overall capital cost.					
		● No Negative or Positive Net Effect	● Low Negative Net Effect	● Moderate Negative Net Effect	● High Negative Net Effect			

The currently approved footprint is included as part of the Environmental Assessment to represent what would happen if none of the six options were carried out. It was considered a benchmark to measure and compare the environmental advantages and disadvantages

## How the Options Were Evaluated

The six options were evaluated using the Reasoned Argument or “Trade-off” approach:

1. First, how each option may potentially affect each component of the environment was determined. Then impact management measures were developed to offset any potential adverse environmental effects. Following the application of the impact management measures, the residual or net effects were established.
2. Next, each option’s net effects were compared against the other option’s net effects to determine their relative advantages and disadvantages.
3. This comparison considers trade-offs between the various evaluation criteria. Trade-offs are “things of value given up in order to gain different things of value”. Essentially, this involves a balancing of attributes, all of which are not attainable at the same time.
4. Finally, each option was ranked based on their relative advantages and disadvantages to identify a recommended option.

**In the Reasoned Argument approach, none of the criteria or components of environment are weighted any higher or lower than others.**

**All environmental components are instead evaluated in terms of their trade-offs with other environmental components.**

## What We Heard from Community Members

Input on the six options from the public and other key stakeholders was also considered. The following feedback was received at the first Open House:

- In general, the public expressed a preference for options that included no or little height increase and for options that allowed the SCRF to close as soon as possible.
- One member of the public expressed preference for options that did not change the footprint.
- Some community members expressed preference to keep the original capacity or felt that none of the options was preferred.
- Additional comments related to the potential impacts that should be considered, including odour, height/visual impact, property values, recent population expansions, animals, groundwater, and surface water.

The recommended Option #5 has the lowest net effects of any of the options when assessed against 9 different environmental components. It strikes the right balance of minimizing potential adverse environmental effects and minimizing a height increase, while also accommodating the identified additional capacity that was outlined in the approved Terms of Reference so Terrapure can continue to serve and support the growing local economy.



**APPENDIX D**  
**EA Public & Online Open House**  
**#3 Comment Sheets**

## ADDITIONAL COMMENTS

Please add me to the Project contact list

Name: [REDACTED] Phone Number: [REDACTED]

Address: [REDACTED]

E-mail Address: \_\_\_\_\_

Please submit any comment forms on your way out or present them to any GHD or Terrapure representative. If you would prefer to provide your written comments at a later date, please direct them by July 20, 2018:

Terrapure Environmental  
65 Green Mountain Road West,  
Stoney Creek, ON L8J 1X5

Fax: 905-549-4515 Email: [info@terrapurestoneycreek.com](mailto:info@terrapurestoneycreek.com) Website: [terrapurestoneycreek.com](http://terrapurestoneycreek.com)

**Thank you for your participation!**

I would like this place closed  
So much damage is already done  
The crazy smell that comes out of there  
Some time you have to go back in the house  
you can not stay in the yard  
The window house get so much dust  
is crazy any more then anywhere else  
we been there since [REDACTED]  
was [REDACTED] Please not this I always comp  
Lomit in past but this stuff always gets  
Approved by the city if this is steel  
Approved I might look at other equal upsent



## ADDITIONAL COMMENTS

Please add me to the Project contact list

Name : [Redacted] Phone Number : [Redacted]  
Address : [Redacted]  
E-mail Address : \_\_\_\_\_

Please submit any comment forms on your way out or present them to any GHD or Terrapure representative. If you would prefer to provide your written comments at a later date, please direct them by July 20, 2018:

Terrapure Environmental  
65 Green Mountain Road West,  
Stoney Creek, ON L8J 1X5

Fax: 905-549-4515 Email: [info@terrapurestoneycreek.com](mailto:info@terrapurestoneycreek.com) Website: [terrapurestoneycreek.com](http://terrapurestoneycreek.com)

**Thank you for your participation!**

*I was very impressed by the technical explanation from Lorenzo Alfano, on how the debris arrives and is placed at the old Cope's quarry. I feel more comfortable knowing how it works and what materials go into it. Hopefully when it closes we will have nice gardens and maybe a ski hill with a small restaurant.*

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