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7. Public and Agency Consultation

7.1 Overview of the Consultation Process

This section of the EA Report provides an overview of the consultation program undertaken as part of the SCRF EA. A comprehensive consultation program involving review agencies, Indigenous communities, and public stakeholders was carried out throughout the EA process, in accordance with the MECP's Code of Practice for Preparing; *Reviewing Environmental Assessments in Ontario* (January 2014); and, as required by Section 5.1 of the *EA Act*.

As presented in the Minister-approved Amended Terms of Reference (ToR) (2017), the comprehensive consultation program for the EA process, titled the EA Consultation Plan, included four elements:

1. Key decision-making milestones when consultation would occur during the SCRF EA (**Section 7.2**).
2. Interested participant groups from which input would be obtained and specified how that input would be obtained from each group during the SCRF EA. Specifically, the EA Consultation Plan identifies three categories of participants: review agencies; Indigenous communities; and, the public (**Sections 7.4.1, 7.5.1, and 7.6.1**).
3. Consultation activities to be carried out during the SCRF EA. The consultation activities carried out were similar to those undertaken during the ToR. While some consultation activities were used to engage all three participant groups (**Section 7.3**), many were tailored to each (**Sections 7.4, 7.5, 7.6 and 7.7**).
4. Issues resolution strategy for resolving potential issues or disputes raised during the SCRF EA (**Section 7.9**).

In addition to elements described above, the consultation program also included:

- A Peer Reviewer, retained for the SCRF EA process with the objective of providing an independent review of the technical information developed as part of the SCRF EA (**Section 7.8**).
- Availability of the Draft SCRF EA Report for review and comment by review agencies, Indigenous communities, and the public (**Section 7.10**).
- Details of Final SCRF EA Report submission to the MECP for a decision by the Minister on the proposed Undertaking with a formal review (**Section 7.11**).
- Proposed ongoing consultation during the implementation of the approved Undertaking (**Section 7.12**).

7.2 Key Decision-Making Milestones and Consultation Activities

A wide variety of consultation activities were carried out throughout the preparation of the EA. The consultation activities provided multiple opportunities and a wide-range of methods for review agencies, Indigenous communities, and public stakeholders to be involved and provide comments for consideration.

The SCRF EA Consultation Plan outlined five key decision-making milestone points where consultation would specifically occur during the preparation of the SCRF EA. As a result, Terrapure sought and obtained input from the interested participants at these key decision-making points, prior to moving forward with the next phase of the EA process. The key decision-making milestone points outlined in the Consultation Plan are provided in **Figure 7.1**. The first key decision-making milestone point listed in **Figure 7.1** was held as part of the preparation of the SCRF EA ToR.

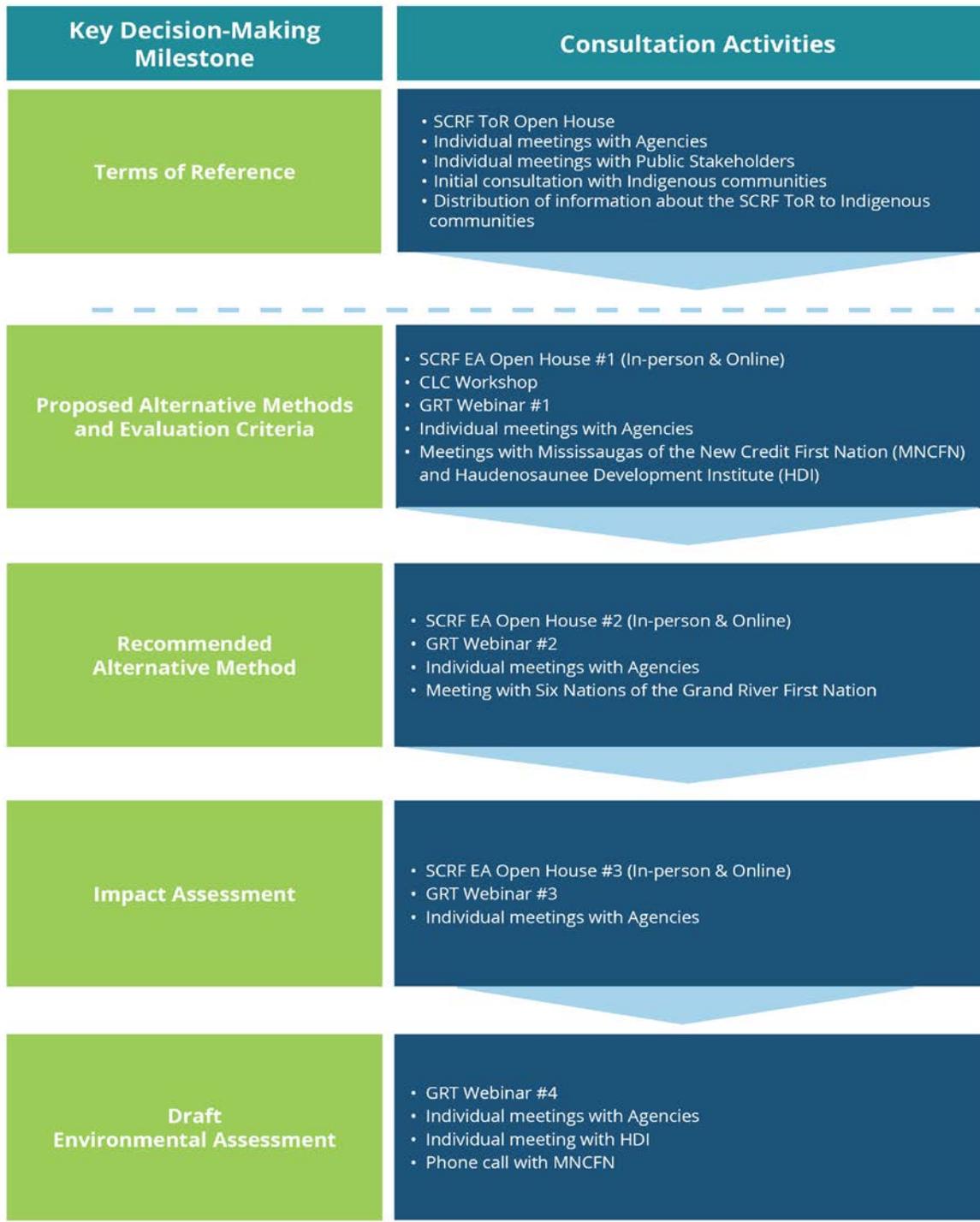


Figure 7.1 Consultation Key Milestones

7.3 Ongoing Consultation Activities

Terrapure undertook several consultation activities that lasted the duration of the EA and were used to engage all participant groups. Primarily, these activities were undertaken to increase the level of understanding of the SCRF, the Project, and of the EA process; and, included easy-to-understand, plain language communications tools. Specifically, this included:

- Project website (**Section 7.3.1**)
- Social media (**Section 7.3.2**)



- Educational videos (**Section 7.3.3**)
- Media relations (**Section 7.3.4**)
- Toll-free telephone number (**Section 7.3.5**)

Further, Terrapure implemented an adaptive management strategy to consultation, adding activities as necessary. For example, Terrapure heard from community members during the ToR that it would be beneficial to have access to videos as a tool for understanding the complexities of the environmental protection measures required of the SCRF, if the EA was approved. As a result of this suggestion, Terrapure produced three videos that described environmental protection at the SCRF, the waste acceptance process, and the proposed capacity increase details.

Each of these activities are further described in the following subsections.

7.3.1 Project Website

A project specific website (www.terrapurestoneycreek.com) was launched during the ToR stage and maintained throughout the EA process. The website was established to provide clear and accurate information to participants. During the SCRF EA process, Terrapure posted up-to-date information on the website about project activities, available documents for review, and notices of upcoming consultation opportunities to provide feedback and comment.

In addition, participants were able to submit questions, comments or feedback directly on the website and subscribe to project notifications.

Finally, the project website was used to host three Online Open Houses to augment the In-Person Open Houses. The Online Open Houses are further described in **Section 7.6.4**.

7.3.2 Social Media

In addition to a project specific website, Terrapure was active on social media throughout the EA process. Through engagement on Facebook ([@TerrapureStoneyCreek](https://www.facebook.com/TerrapureStoneyCreek)) and Twitter ([@TerrapureSCRF](https://twitter.com/TerrapureSCRF)), Terrapure was able to:

- Increase awareness of the project, key dates for consultation opportunities, potential benefits of the project to the community and ongoing operational activities.
- Increase the level of active communication throughout the EA process.
- Allow Terrapure to engage meaningfully with hard to engage demographics, by responding to concerns and comments raised on social media.

Although the SCRF social media accounts received limited interaction and new followers during the EA phase, there were a few noteworthy engagement moments, including posts with invitations to the Public Open Houses, promotion of the Heritage Green Community Trust funds, and the educational videos.

7.3.3 Educational Videos

In response to comments received from the public during the ToR, Terrapure created two educational videos: SCRF Environmental Protection, and SCRF Waste Acceptance Process. These two videos were developed and published in November 2017, shortly after the Notice of Commencement. As of December 2018, the SCRF Environmental Protection video received 139 views, and the SCRF Waste Acceptance Process received 219 views.

At the third Open House on June 19, 2018, Terrapure released a new video which provided further details about the preferred undertaking. Specifically, the video described the changes from the existing approved to the preferred Undertaking, including changes to the footprint (i.e., horizontal and vertical alterations), moving on-Site operational infrastructure, and the phasing plan for landfilling.

The videos can be accessed and viewed at: <http://bit.ly/SCRFvideos>.

7.3.4 Media Relations

At key milestones throughout the preparation of the EA, Terrapure engaged with the media to provide updates and answer questions about the progress of the SCRF EA. A representative from the Stoney Creek News was in attendance at each of the Public Open Houses. Following each Public Open House, a related article was published in the Stoney Creek News.

In addition to articles published in the Stoney Creek News, Terrapure participated in in-person interviews on Cable 14 News on December 19, 2017, and March 27, 2018.

7.3.5 Toll-Free Telephone Number

The dedicated project specific toll-free telephone number (1-844-898-2380) established during the ToR phase was continued during the EA phase. The purpose of the toll-free telephone number was to handle inquiries related to the SCRF EA.

Phone calls received were primarily related to a stakeholder looking for additional information after receiving an invitation(s) to an upcoming Public Open House.

7.4 Agencies

7.4.1 Agencies Consulted

During the ToR, Terrapure consulted broadly with review agencies, including federal departments, provincial ministries and agencies, and regional and local agencies. From the original 18 review agencies contacted¹, only 12 responded with interest in reviewing the ToR. As such, the following 12 agencies were consulted during the preparation of the SCRF EA:

Table 7.1 Review Agencies Involved in Preparation of the EA

Review Agency	Rationale for the Agency's Involvement
Federal and Provincial Agencies	
Environment and Climate Change Canada (ECCC)	Their mandate includes preserving and enhancing the quality of the natural environment including water, air, soil, flora, and fauna which may be affected by the proposed undertaking.
Ministry of Agriculture, Food and Rural Affairs (OMAFRA)	Their mandate includes supporting Ontario's agri-food sector, enforcing and improving food safety and strengthening Ontario's rural communities. Since the preliminary study area includes a rural environment that may be affected by the proposed undertaking, OMAFRA was consulted as part of the EA process.
Ministry of Economic Development and Growth (MEDC)	Their mandate includes helping to grow a strong, innovative economy that provides jobs and prosperity for all Ontarians. Since the Undertaking has the potential to affect the economic environment, MEDC was consulted.
Ministry of Environment, Conservation, and Parks (MECP)	Their mandate includes protecting, restoring and enhancing the environment to ensure public health and environmental quality, which may be affected by the proposed Undertaking. In addition, MECP is responsible for administering the <i>Environmental Assessment Act</i> , which the proposed Undertaking is subject to.
Ministry of Natural Resources and Forestry (MNRF)	Their mandate is to oversee the province's natural resources and work to safeguard Ontario's provincial parks, forests, fisheries, wildlife, mineral aggregates, Crown lands and waters. The MNRF is responsible for

¹The six agencies not included in the SCRF EA confirmed that they would not be involved in reviewing the SCRF EA during the Terms of Reference and requested to be removed from the contact list.



Table 7.1 Review Agencies Involved in Preparation of the EA

Review Agency	Rationale for the Agency's Involvement
	administering the <i>Endangered Species Act</i> and since the project has the potential to affect Species at Risk (SAR) including the Eastern Meadowlark, Barn Swallow, and Butternut, the MNRF was consulted.
Ministry of Tourism, Culture and Sport (MTCS)	Their mandate includes the conservation of archaeological resources and promotion of heritage conservation. Since the project has the potential to have an impact on archaeological and cultural resources, MTCS was consulted.
Ministry of Transportation (MTO)	Their mandate includes overseeing the provincial transit and transportation system. Since there is the potential for transportation impacts as a result truck traffic associated with the undertaking, the MTO was consulted.
Ontario Provincial Police (OPP)	They were consulted as part of the EA process to determine if the proposed Undertaking affects provincial policing activities within their jurisdiction.
Municipal and Regional Agencies	
City of Hamilton, including the Mayor, Councillors, and the following departments: planning, economic development, water, public health, transportation, and city manager	Since the proposed Undertaking is situated within the City of Hamilton, City staff and Councillors were consulted as part of the EA process to ensure their various interests were duly considered. In addition, two City Councillors represent the City of Hamilton on the Terrapure SCRF Community Liaison Committee (refer to Section 7.6.6).
Hamilton Conservation Authority (HCA)	HCA manages the natural environment with the City of Hamilton and Province of Ontario protecting water sources, guarding against flooding and erosion, managing conservation and recreational lands, and promoting environmental stewardship and education. Since the proposed Undertaking is situated within the Stoney/Battlefield Creek watershed, they were consulted as part of the EA process to ensure their interests were duly considered.
Hamilton Wentworth Catholic District School Board (HWCDSB)	Since the proposed Undertaking is situated within the school district boundaries of the HWCDSB, they were consulted as part of the EA process to ensure their interests of truck traffic, truck speeds and student safety were duly considered.
Hamilton Wentworth District School Board (HWDSB)	Since the proposed Undertaking is situated within the school district boundaries of the HWDSB and a proposed elementary school is proposed northwestern of the SCRF, they were consulted as part of the EA process to ensure their interests were duly considered.

Staff from government ministries and agencies who contribute to the review of the Environmental Assessment documentation are collectively known as the Government Review Team (GRT).

From the 12 agencies consulted during the preparation of the SCRF EA, some agencies, including the City of Hamilton, the Hamilton-Wentworth Catholic District School Board, the Hamilton-Wentworth District School Board, Ministry of Agriculture, Food, and Rural Affairs, and the Ministry of Environment, Conservation, and Parks were more substantially interested and involved.



7.4.2 Overview of Consultation Activities with Agencies

A number of consultation activities took place with review agencies throughout the SCRF EA process, including the following:

- Circulation of the Notices of Commencement and Public Open Houses (see **Section 7.6.3**)
- Four GRT Webinars (**Section 7.4.3**)
- Individual meetings (**Section 7.4.4**)
- Circulation of draft reports (**Section 7.4.5**)
- Circulation of the Draft Environmental Assessment and posting of the Final Environmental Assessment (**Sections 7.10 and 7.11**)

7.4.3 GRT Webinars

GRT webinars were held immediately after Public Open Houses and were an opportunity for agencies to receive an update on the project and ask questions. All members of the GRT received an invitation to participate. Summaries of the GRT webinars can be found in **Vol. 3 – Appendix A**.

7.4.3.1 GRT Webinar #1

Date: December 8, 2018 at 2:00 p.m.

Attendees:

- City of Hamilton (Community Planning)
- City of Hamilton (Public Health)
- City of Hamilton (Public Works)
- Hamilton Conservation Authority
- Hamilton-Wentworth Catholic District School Board
- Hamilton-Wentworth District School Board
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of the Environment, Conservation, and Parks (Approvals Branch)
- Ministry of the Environment, Conservation, and Parks (West Central Region)
- Ministry of Natural Resources and Forestry
- Ministry of Tourism, Culture, and Sport

Purpose: Provide agencies with an overview of the project, detail the role of the GRT during the EA, discuss the approval of the Amended ToR, recap the Public Open House #1 and outline the next steps for the project.

Questions and Comments: A question was raised by the City of Hamilton's Department of Public Health looking for clarification on what the health assessment will include. Terrapure explained that they will be using the Annual Community Health Review as the basis for the health assessment in this EA.

7.4.3.2 GRT Webinar #2

Date: March 23, 2018 at 2:00 p.m.

Attendees:

- City of Hamilton (Community Planning)
- City of Hamilton (Public Health)
- Ministry of Agriculture, Food, and Rural Affairs

Purpose: Provide a project update including presenting the results of the Alternative Evaluation Assessment, the details of the Public Open House #2, upcoming review timelines and next steps.



Questions and Comments: None of the GRT members asked questions during this call. The GRT was informed that they would receive an email with an electronic copy of the Draft Alternative Assessment Report, with a specific request to review and provide comment on the relevant technical information by April 27, 2018.

7.4.3.3 GRT Webinar #3

Date: June 20, 2018 at 1:00 p.m.

Attendees:

- Ministry of Agriculture, Food, and Rural Affairs
- To accommodate scheduling conflicts, a separate webinar was held with City of Hamilton Staff on June 28, 2018

Question and Comments:

The Ministry of Agriculture, Food, and Rural Affairs had no comments or questions during this call. Terrapure requested the review agencies provide their comments on the Draft Impact Assessment Report by July 20, 2018.

The City of Hamilton staff asked Terrapure to elaborate on the timeframe for MECP review and process, to provide the visual cross-sections, to explain progressive capping and when the process will begin, and to discuss the assessment for the property value and property taxes.

7.4.3.4 GRT Webinar #4

Date: October 3, 2018

Attendees:

- Hamilton Conservation Authority, Ministry of Tourism, Culture, and Sport, and Ministry of Natural Resources and Forestry
- To accommodate scheduling conflicts, a separate webinar was held with staff from the City of Hamilton earlier on October 3, 2018.

Purpose: To present an overview of the Draft EA Report, and provide details for review timelines and next steps for the EA.

Questions and Comments:

The Ministry of Tourism, Culture, and Sport asked if any Indigenous communities have shown interest and/or see value in the SCRF.

The City of Hamilton asked if a domestic well survey will be conducted to better characterize the wells in the area, if any changes are being made to the sewage discharge permit, and if hydraulic conductivity testing was being incorporated to the Draft EA Report.

7.4.4 Individual Meetings

In-person meetings and conference calls were held with individual review agencies on an as needed basis to discuss the project and provide project updates. These meetings primarily coincided with key milestones and provided an opportunity for review agencies to discuss their comments on the progress of the SCRF EA including regarding the Existing Conditions, Alternative Methods, Preferred Alternative, and Detailed Impact Assessment and comments on the SCRF Draft EA. Summaries of meetings with agencies can be found in **Vol. 3 – Appendix A**.

Specifically, meetings were held with the following agencies:

Table 7.2 Individual Meetings with Review Agencies During the SCRF EA

Date of Meeting	Name of Agency or Organization	Meeting Purpose
24-Nov-2017	Ministry of the Environment, Conservation and Parks	Discuss the upcoming SCRF EA process based on the Amended Approved ToR.
8-Jan-2018	City of Hamilton	Review and discuss any outstanding comments submitted during the SCRF ToR.
17-Jan-2018	Ministry of Tourism, Culture, and Sport	Discussion with Terrapure on MTCS's mandate, a review of the Alternative Methods, and if any of the Alternatives would go beyond the previously disturbed quarry lands.
1-Feb-2018	Ministry of Agriculture, Food and Rural Affairs	Discussion regarding the Land Use Existing Conditions Report.
5-Mar-2018	Ministry of the Environment, Conservation, and Parks	Meeting with Regional MECP staff to discuss proposed administrative amendments to the existing SCRF ECA.
13-Mar-2018	Hamilton-Wentworth Catholic District School Board	Present the comparative evaluation on the Alternative Methods and discuss concerns such as traffic, road safety, and increased urbanization.
26-Mar-2018	City of Hamilton	SCRF EA project update and review and discussion of key milestones and review timelines for the City of Hamilton.
20-Apr-2018	Ministry of the Environment, Conservation, and Parks	SCRF EA project update with technical review team at the MECP to discuss the Comparative Evaluation of the Alternative Methods and upcoming review timelines.
1-May-2018	City of Hamilton	Meeting with Mayor to provide an update on the SCRF EA and the involvement to-date by the City of Hamilton staff.
24-May-2018	Ministry of the Environment, Conservation, and Parks	Meeting to discuss SCRF EA Closure Planning.
26-Jul-2018	Hamilton-Wentworth Catholic District School Board	Meeting to further discuss the SCRF EA with the context of reiterated requested that all truck traffic associated with the Facility be prohibited on First Road West because of student safety associated with walk-ins from existing and future residential developments north and west of Green Mountain Road West to separate schools south of Mud Street.
08-Aug-2018	City of Hamilton	Meeting with new City Manager, Mike Zegarac, to provide an overview of the SCRF EA and the involvement to-date by City of Hamilton staff and upcoming milestones and review periods.
15-Nov-2018	MECP	Meeting to discuss a proposed administrative amendment to the existing SCRF ECA.
22-Nov-2018	MECP	Meeting to discuss comments on SCRF Draft EA from the MECP's senior waste engineer.

Table 7.2 Individual Meetings with Review Agencies During the SCRF EA

Date of Meeting	Name of Agency or Organization	Meeting Purpose
22-Nov-2018	City of Hamilton	Meeting to discuss comments/questions from the City about the SCRF Draft EA.
26-Nov-2018	MECP	Meeting to discuss comments on SCRF Draft EA from the MECP Project Officer.
27-Nov-2018	MECP	Meeting to discuss comments on SCRF Draft EA from the MECP senior noise engineer.
6-Dec-2018	City of Hamilton	Meeting to discuss City of Hamilton comments received regarding potential noise impacts on surrounding residential developments.
11-Dec-2018	OMAFRA	Call to discuss OMAFRA comments on the Draft EA.
13-Dec-2018	MECP	Meeting to discuss the Ramp Removal Plan as part of the existing SCRF ECA.
13-Dec-2018	MECP	Meeting to discuss comments on SCRF Final EA from the MECP Project Officer.
20-Dec-2018	City of Hamilton	Meeting to discuss City of Hamilton comments received on SCRF Draft EA.

7.4.5 Circulation of Draft Reports

Terrapure proactively circulated draft reports to agencies for their review and comment throughout the SCRF EA. This was done to ensure the potential impacts of the Undertaking related to their individual mandates were considered and addressed. Specifically, the following draft documents were circulated for review and comment:

- Draft Air, Odour, and Meteorology Work Plan and Draft Air, Odour, and Meteorology Existing Conditions Report – December 14, 2017
- Received correspondence from: City of Hamilton
- Draft Geology and Hydrogeology Work Plan and Draft Geology and Hydrogeology Existing Conditions Report – December 14, 2017
- Received correspondence from: City of Hamilton
- Draft Land Use and Economic Work Plan and Draft Land Use and Economic Existing Conditions Report – December 14, 2017
- Received correspondence from: City of Hamilton, Ontario Ministry of Agriculture, Food and Rural Affairs, Ministry of the Environment, Conservation, and Parks
- Draft Natural Environment Work Plan and Draft Natural Environment Existing Conditions Report – December 14, 2017
- Received correspondence from: Ministry of Natural Resources and Forestry
- Draft Noise Work Plan and Draft Noise Existing Conditions Report – December 14, 2017
- Received correspondence from: City of Hamilton, Ministry of the Environment, Conservation, and Parks
- Draft Surface Water Work Plan and Draft Surface Water Existing Conditions Report – December 14, 2017
- Received correspondence from: City of Hamilton



- Draft Traffic Work Plan and Draft Traffic Existing Conditions Report – December 14, 2017
- Draft Archaeological and Built Heritage Work Plan – December 14, 2017
- Received correspondence from: Ministry of Tourism, Culture, and Sport
- Draft Conceptual Design Report – December 14, 2017
- Draft Alternative Methods Report – March 29, 2018
- Received correspondence from: Ministry of Natural Resources and Forestry, City of Hamilton (Council, Planning, Public Works, Legal, Capital Budgets), Hamilton-Wentworth Catholic District School Board, Hamilton-Wentworth District School Board, Ministry of Tourism, Culture, and Sport, Conservation Hamilton
- Draft Facility Characteristics Report – June 25, 2018
- Draft Air, Odour, and Meteorology Detailed Impact Assessment Report – June 25, 2018
- Draft Geology and Hydrogeology Detailed Impact Assessment Report – June 25, 2018
- Received correspondence from: Hamilton Conservation Authority, City of Hamilton
- Draft Land Use and Economic Detailed Impact Assessment Report – June 25, 2018
- Received correspondence from: City of Hamilton
- Draft Natural Environment Detailed Impact Assessment Report – June 25, 2018
- Draft Noise Existing Conditions Detailed Impact Assessment Report – June 25, 2018
- Received correspondence from: City of Hamilton
- Draft Surface Water Detailed Impact Assessment Report – June 25, 2018
- Received correspondence from: Hamilton Conservation Authority
- Draft Traffic Detailed Impact Assessment Report – June 25, 2018
- Received correspondence from: Hamilton-Wentworth District School Board, City of Hamilton

In addition, to accommodate their review timelines, a preliminary draft of the SCRF Environmental Assessment Report was provided to City of Hamilton Staff for review and comment in July and August, 2018. This was done proactively prior to the Draft SCRF Environmental Assessment Report being prepared to ensure staff could report on their comments to the City of Hamilton Planning Council before Council broke for the 2018 municipal election.

Comments provided by review agencies on the Draft SCRF Environmental Assessment Report is described in **Section 7.10**.

7.4.6 Consultation with City of Hamilton Council and Planning Committee

The SCRF is located in Ward 9 of the City of Hamilton, which, until December 3, 2018, was represented on City of Hamilton Council by Councillor Doug Conley. With a change in council as a result of the 2018 municipal elections, Councillor Brad Clark began representing Ward 9 on December 3, 2018. Terrapure kept Councillors Conley and Clark informed throughout the EA process, primarily through informal telephone calls and in-person discussions.

In addition, staff from the City of Hamilton and representatives from Terrapure presented to the City of Hamilton Council and Planning Committee during review of the Draft EA. The purpose of these staff reports and delegations was to keep City of Hamilton Council apprised of the City staff's involvement in the EA process, as well as provide an opportunity for Council members to provide comments and ask questions for consideration by City staff and Terrapure.



Specifically, staff reports and delegations were made at the following meetings:

Date of Meeting	Meeting Type	Purpose
14-Aug-2018	City of Hamilton Council Planning Committee	Terrapure addressed Committee and spoke to the currently existing compensation agreement and indicated the company was agreeable to beginning a discussion regarding a new compensation agreement with the City for the proposed undertaking, should it be approved. Committee decided to table any discussion regarding a new compensation agreement until the SCRF EA process is complete.
18-Sept-2018	City of Hamilton Council Planning Committee	City staff presented to council with Terrapure as a delegate. The purpose of the presentation was to inform Council of staff comments on the Preliminary Draft SCRF EA. City staff asked that Planning Committee endorse staff comments submitted to Terrapure and that the report be adopted as formal comments on the Preliminary Draft EA. Terrapure was present to answer questions as needed.

The 14-Aug-2018 City of Hamilton Council Planning Committee Minutes can be found in **Vol. 3 – Appendix A** and the 18-Sept-2018 City of Hamilton Council Planning Committee Minutes can be found in **Vol. 3 – Appendix L**.

7.4.7 Consideration of Comments Received and Issues Raised

In light of the numerous consultation activities carried out by Terrapure with review agencies during the preparation of the SCRF EA, various comments were received reflecting a number of issues. In response, Terrapure considered these comments and attempted in good faith to resolve the raised issues so that both Terrapure and the interested parties(s) had an agreeable resolution during the SCRF EA.

As noted in **Section 7.4.1**, agencies that were more interested and involved included the City of Hamilton, the Hamilton-Wentworth District School Board, Ministry of Agriculture, Food, and Rural Affairs, and the Ministry of Environment, Conservation, and Parks. A summary of the comments received from these agencies and how those comments were considered is described in the following subsections. The following subsections exclude comments received on the SCRF Draft EA, which are described in **Section 7.10**.

A description of comments received from all review agencies and how they were considered by Terrapure is included in **Table 7.3**. This table is organized by review agency in accordance with Section 4.3.7 of the Ministry of the Environment’s Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014).

Copies of written correspondence with review agencies can be found in **Vol. 3 – Appendix B**.

7.4.7.1 City of Hamilton

As the host municipality of the proposed SCRF project, Terrapure regularly communicated and consulted with staff and Councillors at the City of Hamilton throughout the EA process. The City of Hamilton has particular interest related to traffic, property value, noise, impacts to surrounding residential developments. As a result of this consultation the following comments were received and changes were made to the SCRF EA:

- Request to include a section that references to the existing compensation agreement as part of the Land Use and Economic Existing Conditions Report.
- A section on existing compensation was added.
- The Residential Development Activity should include a reference to residential development proposals currently being reviewed by the City of Hamilton that fall within the Study Area.



- A Residential Development Activity section was added to the Land Use and Economic Existing Conditions Report.
- Change the nearest residential dwelling to 60 m in the Noise Existing Conditions Report
- The location of the nearest dwelling was changed to 60 m.
- Reference historical background noise to substantiate the ambient sound level as part of the Noise Control Study in the future.
- References to the background noise reports were added.
- Add a figure identifying location of approved residential developments to the north, which must be included as a sensitive receptor.
- A figure identifying the residential properties was added to identify as a sensitive receptor.

Additionally, the City of Hamilton provided comments on the SCRF Draft EA which are described in **Section 7.10.2**.

7.4.7.2 Hamilton-Wentworth District School Board

The Hamilton-Wentworth District School Board is proposing an elementary school site located at the northwest corner of Green Mountain Road and First Road West. Presently, it is anticipated that the new school will open by 2023. Their concerns, as stated during the ToR and reinforced during the SCRF EA, are with any potential adverse effects of the proposal on the planned elementary school including air quality, noise, traffic, groundwater and leachate. In response, potential impacts on the proposed elementary school were assessed as part of the SCRF EA found in **Section 6.3.3**.

Additionally, the Hamilton-Wentworth District School Board provided comments on the SCRF Draft EA which are described in **Section 7.10.2**.

7.4.7.3 Ministry of the Environment, Conservation, and Parks

As a technical review agency and the coordinator of the Ministry review of the SCRF EA Report, the MECP plays a critical role in the SCRF EA project. Terrapure provided the MECP Project Officer with frequent updates by phone and email, which also provided Terrapure the opportunity to address any concerns or respond to questions from the MECP.

Separate from the SCRF EA process, Terrapure had discussions with the Hamilton District Office and the Environmental Assessment and Permission Branch via email, telephone calls, and meetings regarding ongoing operations at the SCRF and the existing Environmental Compliance Approval. As a result of these discussions, the MECP issued an administrative amendment to the existing SCRF Environmental Compliance Approval on September 24, 2018, and Terrapure submitted an application for a second ECA amendment in December 2018 (see **Section 1.3**).

Additionally, the MECP provided comments on the SCRF Draft EA, which are described in **Section 7.10.2**.



Table 7.3 Review Agency Comments and Consideration by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
Hamilton Conservation Authority	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	8-Dec-2017	GRT Meeting	Conservation Hamilton participated in the GRT Meeting #1 Webinar	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting
	N.A.	N.A.	N.A.	Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies	14-Dec-2017	Email
				Thank you for participating in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Surface Water, Terrestrial and Aquatic/Natural Environment and Geology & Hydrogeology Work Plans and Draft Existing Condition Reports and the Draft Conceptual Design Report for your review. The Work Plans and Existing Condition Reports attached are for the disciplines that reflect your Agency's jurisdictional mandate. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plans attached were previously circulated to you during the Terms of Reference process and are the final versions that were included as part of the Amended Approved Terms of Reference. We are passing on these work plans as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used. Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you.	14-Dec-2017	Email
	19-Jan-2018	Email	Thank you for emailing me the meeting request and advising that you are now a key contact person on the project. We are very appreciative that you are keeping us in loop regarding the project flow. We also understand that it was GHD's recommendation to setup separate meetings with all interested parties including the Hamilton Conservation Authority. At this stage of the design, we believe that it is not necessary to setup a meeting or teleconference as we will rely on the MECP and City of Hamilton commenting issues related to surface water quality and quantity controls respectively. However, we would request GHD keeping us informed about further changes in the project including the surface drainage, groundwater and leachate sampling and other monitoring programs. If we will find that it is necessary to discuss project constrains with GHD and owners, we will request a meeting or teleconference.	N.A.	N.A.	N.A
	24-Apr-2018	Email	It is our understanding that the Assessment of Landfill Expansion Alternatives emailed to us on the 29th of March, 2018, recommends to adopt Alternative 5 for the landfill expansion. It is also our understanding that a PCSWMM model developed for the alternatives comparison demonstrates that the uncontrolled flow volumes will be increased for all range of storm events as a result of the re-development. However, a SWM facility within the landfill likely is intended to provide appropriate quantity control of the surface runoff that can be generated within the landfill. Recommendations related to the surface water quality control and groundwater and leachate management also seem reasonable. Therefore, we have no further comment on the selected alternative. Please continue keeping us informed about the project updates.	Thank you for the email and we appreciate your engagement in this process. We will continue to provide you applicable documents and keep you informed of any project updates.	24-Apr-2018	Email
	N.A.	N.A.	N.A	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
	N.A	N.A	N.A	I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest report for review. For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and	29-Mar-2018	Email



				<p>to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the Preferred Alternative (Option #5).</p> <p>I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018.</p> <p>In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>		
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
	N.A.	N.A.	N.A.	<p>Good Afternoon,</p> <p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below:</p> <p>Draft Detailed Impact Assessment Reports for the Preferred Option</p> <ul style="list-style-type: none"> • Air Quality and Odour • Geology and Hydrogeology • Land Use and Economic • Terrestrial and Aquatic Environment • Noise • Surface Water • Traffic • Design & Operations • Facility Characteristics Report <p>We would appreciate your comment and review by Friday July 20th 2018.</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	25-June-2018	Email
	N.A.	N.A.	N.A.	<p>I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports).</p> <p>As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018.</u></p> <p>Thank you for your interest and engagement in this project.</p>	18-Jul-2018	Email
19-Jul-2018	Email		<p>We provide the following comments for your consideration</p> <p>Calculations supporting the sediment settling and dispersion lengths are recommended to demonstrate that the forebays are designed as per the MOE Guideline, 2003 recommendations</p> <p>The MOE Guideline, 2003 recommends to demonstrate that the drawdown time does not exceed 48 hours.</p> <p>It is recommended to check velocities in the forebays as per the MOE Guideline, 2003 in order to demonstrate that the average velocity in both forebays is less than 0.15m/s.</p> <p>It is recommended to discuss whether or not hydrocarbons from the truck/wheel wash area will discharge to the SWM facility, and if so, is any additional treatment proposed?</p> <p>A safe overland spillway from the pond is recommended to divert flows that may exceed the 100-year storm event or in case of the system clogging.</p>	<p>Thank you for your comments and feedback. Please find responses in the attached letter.</p> <p>The current SWM pond is a theoretical conceptual design. During detailed design, the sediment settling and dispersion lengths will be calculated to ensure that the forebays are designed appropriately. The Stormwater Management System is considered Major Work under the Site's ECA, and thus requires that the detailed design and specifications be submitted to the MECP for review and approval prior to construction. Details of the existing stormwater management system (i.e., Phase 1) are provided in a report entitled "Stormwater Management Design Report, Phase 1, Newalta Stoney Creek Landfill" (Gartner Lee Limited, June 21, 2007).</p> <p>The current SWM pond is a theoretical conceptual design. During detailed design, the drawdown time will be calculated to ensure it does not exceed 48 hours. The Stormwater Management System is considered Major Work under the Site's ECA, and thus requires that the detailed design and specifications be submitted to the MECP for review and approval prior to construction. Details of the existing stormwater management system (i.e.,</p>	Aug-2018	Email/Letter



			<p>The stability of the berm separating the SWM pond from Green Mountain Road West and First Road West may need to be investigated in order to demonstrate that the berm is designed to withstand the anticipated hydrostatic and hydrodynamic forces.</p> <p>We have no comments on the hydrogeology report.</p>	<p>Phase 1) are provided in a report entitled " Stormwater Management Design Report, Phase 1, Newalta Stoney Creek Landfill" (Gartner Lee Limited, June 21, 2007)</p> <p>Once the proposed SWM pond is constructed, the truck/wheel wash will not discharge to the SWM facility, therefore no additional treatment is required. The truck/wheel wash system operates separately from the SWM facility, and all impacted water is discharged to the sanitary sewer</p> <p>The current SWM pond is a theoretical conceptual design. During detailed design, an overland flow spillway can be designed in order to safely divert flows greater than the 100-year storm. The existing Phase 1 Stormwater Management System includes an overflow weir from the detention pond that discharges into a separate retention pond for the truck/wheel wash system. The detailed design of the Phase 2 Stormwater Management System will include an overland spillway to divert flows that may exceed the 100-year storm event or in case of the system clogging.</p> <p>During detailed design the stability of the berm separating the SWM pond from Green Mountain Road West and First Road West. Can be investigated to ensure the berm can withstand the anticipated hydrostatic and hydrodynamic forces. The detailed design of the Phase 2 Stormwater Management System will include a stability assessment of the proposed berms in order to ensure that they are able to withstand the anticipated hydrostatic and hydrodynamic forces.</p>		
City of Hamilton	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	5-Dec-2017	Email	Thank you! I think we have about 7 people who intend on coming so far.	Good afternoon Government Review Team, We have not heard back from you about the Government Review Team Meeting for the Terrapure Stoney Creek Regional Facility Environmental Assessment. The details are as follows: Date: December 8, 2017 Time: 2:00 pm to 3:00 pm Location: Webinar Meeting Kindly confirm your attendance and we will provide you with an appointment/link for the Webinar.	5-Dec-2017	Email
	7-Dec-2017	Open House	City of Hamilton Staff participated at the SCRF EA Open House #1	Terrapure hosted the SCRF EA Open House #1	7-Dec-2017	Open House
	8-Dec-2017	GRT Meeting	City of Hamilton Staff participated at the GRT Meeting #1 webinar	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2017	GRT Meeting
	14-Dec-2017	Email	Thank you for this information. Attached is a draft copy of the summary of comments comparing our March 10th, 2017 comments to the approved ToR. I am expecting potentially some more comments from staff so this is still a draft chart. Once I have heard back from everyone I will send an updated version to you so you have time to prepare for the January 8th meeting with City staff.	Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies	14-Dec-2017	Email
	8-Jan-2018	Meeting	<p>Purpose of the meeting was to meet with representatives from the City of Hamilton to review and discuss outstanding comments previously submitted by the City on the SCRF ToR</p> <p>In addition, the group discussed ideas for how Terrapure can consult with new residents in Empire Development</p> <p>Overview of City's Comments Received: GHD and Terrapure reviewed the written responses to the 11 comments</p> <p>Visual Impacts: Question on if fencing will be part of the solution. Terrapure indicated that ideally berms and vegetation is better.</p> <p>Draining, servicing impacts, and future urbanization: On the 20 years of reporting of surface quality monitoring completed by Terrapure that gets distributed to Matt Lawson at the City who hires a toxicologist to review and who has never had any issues</p> <p>Transportation and Traffic: About the current average truck traffic being between 70-80 trucks/day with a 250 max</p>	Terrapure provided the City with an update on the status of the SCRF EA and went through the comments response table submitted by the City. Terrapure answered and discussed any outstanding questions for clarification.	8-Jan-2018	Meeting



		<p>Discussed the need for a review of current agreement with City of Hamilton: Terrapure and the City can continue to have discussions although they are subject to the approval of the EA and noted that the MECP has not been involved in these previous discussions</p> <p>Discussed submission timeline for the E.</p> <p>Next Steps: The City representatives will provide comments on the Draft Existing Conditions Report by the end of January 2018</p>			
8-Jan-2018	Email	<p>Thank you for coming in today and addressing the comments and questions from staff directly. Please send me a PDF copy of your PowerPoint presentation to circulate to the City Staff. I will be setting up another meeting in three weeks for staff only, to consolidate our comments regarding your draft existing conditions reports. All feedback received will be communicated to you directly at the end of the month.</p> <p>With regards to further public consultation to residents who are not yet living in the area, we agree with Sally's suggestion that having a notification sign (similar to a development application notification sign) posted in an area of the Site that is visible to future residents driving by is the most efficient. Many home buyers check out the progress of their property every few weeks in anticipation of their move-in date and hopefully they will notice the sign when they swing by.</p>	<p>Please find attached formal responses from Terrapure to the comments provided in your December 14, 2017 email.</p> <p>Let me know if you have any questions or concerns.</p>	26-Jan-2018	Email
14-Dec-2017	Email/Letter	<p>Impacts on approved and planned residential development to the north of the Facility if a reduced distance between the residual material and the residential developments is approved by MECP:</p> <p>The EA should include the Holding Zone as one of the indicators in the evaluation criteria regarding the "Effect on Existing Land Uses" and "Effect on approved/planned land uses".</p> <p>"Effect on approved/planned land uses" is not included in the Land Use Work Plan, but is included in Appendix D-7 Economic Environment Work Plan, unclear why the differentiation is made under the Economic Environment Work Plan but not the Land Use Work Plan</p> <p>Preliminary study area boundary is 1.5 km (1500 metres), which is beyond the former 160 metre holding zone radius</p>	<p>The areas within the holding zone are included as "approved/planned land uses"</p> <p>The "effect on the approved/planned land uses" is included in the Economic Environment Work Plan and reflects the "environment" definition in the EA Act & MECP's Code of Practice</p> <p>Correct, the study area boundary is 1.5km</p>	26-Jan-2018	Email/Letter
		<p>Need for a Landfill Impact Assessment to be carried as part of the EA:</p> <p>Staff requests that 6.2.6.2 Investigative Studies should include a Landfill Impact Assessment, or similar detailed study regarding the potential effects and compatibility of the Alternative Methods on the approved residential developments north of Green Mountain Road West.</p> <p>The list provided in 6.2.6.2 does state, "The investigative studies include, but are not limited to, the following..."</p>	<p>The Land Use and Social Environment Existing Conditions report include details on the Landfill Impact Assessment</p> <p>For context purposes, in 2010, a Landfill Impact Assessment (LIA) was completed by the owner of lands to the north of the SCRF as part of the draft plan of subdivision conditions. This LIA was prepared by MTE Consultants, peer reviewed (at the request of the City) by AMEC and submitted to the City to satisfy the condition to develop lands to the north of the SCRF as residential housing.</p> <p>The LIA determined that no Impact Management Measures were required to be placed on the proposed development lands beyond 500 m from the limit of fill at the SCRF, which under the SCRF's original approval which was in place at the time was 30 m from the property boundary. Therefore, the current potential proposed changes to the SCRF should not affect the clay barrier requirements. Regardless, it should also be noted that Terrapure revised the ToR to include additional alternative methods for consideration in the SCRF EA.</p> <p>Terrapure is carrying out studies that will evaluate the potential effects on the environment, similar to the types of studies that would be undertaken through an LIA. The key difference is that an LIA is undertaken by a developer wishing to develop residential properties within close proximity to an existing or closed landfill, while Terrapure is subject to the Ontario <i>Environmental Assessment Act</i> and the process laid out in this legislation and O. Reg. 101/07 (Waste Management Regs).</p>		
		<p>Visual Impacts: A comprehensive visual impact assessment must be included in the EA:</p> <p>Visual impacts from increased height of the landfill must be studied in detail. Staff requests that 6.2.6.2 Investigative Studies should include a "detailed visual assessment". Is included in the Land Use Work Plan Appendix D-4, but not as an Investigative Study</p> <p>Niagara Escarpment Commission (NEC) should be contacted regarding any proposed changes to the maximum height and associated visual impacts.</p>	<p>As part of the SCRF EA, a visual assessment will be carried out, where view sheds will be analyzed and appropriate screening measures determined. Screening measures may include earth berms, vegetation, and fencing, which would be used to ensure that views of the SCRF are minimized/mitigated from the surrounding community. Detailed visual assessment is included as part of Land Use Investigative Study</p> <p>The NEC was notified of the commencement of the SCRF EA Terms of Reference (ToR) process and was invited to comment on the Draft ToR. The NEC has confirmed that the SCRF is not located within the Niagara Escarpment Plan Area and is outside the area of Development Control. For this reason, the NEC has indicated that they will not be commenting on the draft ToR.</p> <p>The NEC correspondence is found in the Record of Consultation of the Minister Approved ToR.</p>		



		<p>Air Quality and Noise Impacts: The dwellings in the approved residential development to the north side of Green Mountain Road must be considered as “sensitive receptors” in these studies. Not specifically included, but Appendix D-5 Table 5.1 states the following under indicators, “Number of off-site receptors potentially affected (residential properties, public facilities, businesses, and institutions)”</p> <p>Financial Assessment. An assessment of potential changes in property value and assessment value must be included in the EA: Evaluation and indicator criteria does not specify temporary and/ or long-term impacts to approved and planned land uses Evaluation and indicator criteria does not specifically include an assessment of potential changes to residential property value</p> <p>Drainage, servicing impacts, and future urbanization of roads abutting the subject lands: The Surface Water Resources work plan does not include a potential spillage contingency plan. The Surface Water Resources work plan does not speak about future water quality and quantity monitoring plan.</p> <p>Transportation and traffic, specifically the items expected to be addressed during the EA phase: Transportation work plan does not explicitly state in the boundaries of the traffic impact analysis, but it is assumed that it will be the same as the preliminary study area for the SCRF EA which extends 1500 m (or 1.5 km) from the four roads that border the existing SCRF (i.e., Upper Centennial Parkway to the east, Mud Street West to the south, First Road West to the west, and Green Mountain Road West to the north) (page 23 of the PDF or 31 of PDF) Specific truck routes are not identified in Transportation work plan Transportation is listed in the list of Investigative Studies (p. 34 or 42 of PDF). Truck Route Master Plan is not identified in work plan Pedestrian and cyclist impacts are not identified in work plan Clarity on if the work plan will assess ultimate service ability versus predicted service</p> <p>Source water protection, specifically the items expected to be addressed during the EA phase: The Geology and Hydrogeology work plan does not clearly outline leachate collection system and future leachate chemistry monitoring details as requested in City’s previous comments Further details regarding future monitoring plan for all monitoring stations has not been included Work plan appears to be relying on existing data and not additional field work investigation. The work plan should include additional geology and hydrogeology investigation (borehole work) to document existing/baseline conditions of groundwater systems Work plan does not include groundwater quantity impact assessment</p> <p>Confusing/conflicting information on the total amount of waste/fill: The SCRF’s total approved disposal capacity under the Environmental Protection Act (EPA) approvals is 6,320,000 m3 for residual materials, with an additional allowance for acceptance of approximately 2,000,000 m3 of industrial fill/soils, for a site total of 8,320,000 m³ Increasing the approved capacity of the SCRF by 3,680,000 m³ additional post-diversion solid, non-hazardous industrial residual material The limit in question relates to residual material waste</p> <p>EA Process: Pre-determination of the “Alternatives To” and the exclusion of a null option:</p>	<p>Residences in Empire Victory residential development are included as sensitive receptors in the noise and air quality existing conditions reports and will analyzed as part of the alternative methods evaluation as well.</p> <p>Areas within the holding zone are included as “approved/planned land uses”. In April 2017, Terrapure committed to working with the City of Hamilton to design a property value assessment (e.g., research, consult with experts – land economists, etc.) for implementation during the Impact Assessment of the Preferred Method stage of the SCRF</p> <p>Existing Stormwater Contingency and Remedial Action Plan is in place in accordance with ECA 5400-7DSSHU Please refer to Surface Water Existing Conditions Report for the monitoring plan</p> <p>The Traffic Impact Analysis boundaries are 1.5km There is no change proposed to the maximum number of vehicles to the Site per day or annually. The service ability is addressed in the Existing Conditions report With respect to pedestrian and cyclist impacts, this will be factored in to the potential for traffic collisions indicator.</p> <p>For the leachate collection system and future chemistry monitoring details, please refer to the Geology and Hydrogeology Existing Conditions Report Additional future monitoring, if required, will be identified as part of the Impact Assessment No additional borehole work is anticipated based on existing groundwater monitoring well network Effect on groundwater flow is included as an evaluation criteria</p> <p>The proposed Undertaking is an expansion of the existing SCRF so as to increase its approved capacity by 3,680,000 m³ to receive additional post-diversion solid, non-hazardous industrial residual material. The proposed Undertaking (which is subject to the Ontario Environmental Assessment Act) relates to post-diversion solid, non-hazardous industrial residual material Currently, there are alternative methods that maintain the existing approvals at the Site for industrial fill and there are alternative methods that do not include the industrial fill. The evaluation of the alternative methods is currently underway.</p> <p>“Null Option” is included to represent the benchmark</p>		
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		<p>"Null Option" was added - Section 5.1 Description of the Alternative Methods of Carrying Out the Undertaking (p. 22 or p. 30 of PDF)</p> <p>It is not explicitly listed as an alternative that will be evaluated through the EA process. It appears the 6 alternatives remain the same and that the "Null Option" is considered a base for comparison only</p>	<p>The "Do Nothing" option does not address the Purpose of the Undertaking and is therefore not a viable option; however it will be utilized in the alternative methods evaluation as a benchmark against all other alternative methods.</p>		
		<p>Need for a review of current agreements with City of Hamilton:</p> <p>The Economic work plan does refer to defining costs of services to customers and economic benefits to local municipality, which may capture reviewing existing compensation agreements. Clarification is needed</p> <p>The Economic work plan does not directly address the impacts to existing compensation agreements nor does it mention revisiting them</p>	<p>Terrapure is willing to review these specific arrangements with the City while the SCRF EA is being carried out</p> <p>Any revisions to the Trust and Royalty Program would be subject to EA Act approval being received from the Minister for the Proposed Undertaking</p>		
31-Jan-2018	Email/Letter	<p>Air and Odour Existing Conditions Report & Atmospheric Environmental Work Plan: Include a figure that indicates the location of receptors within 1.5 km and 5.0 km of the subject Site</p>	<p>A figure that indicates the location of receptors will be added within the 1.5 km of Site. Indicating receptors at the 5.0 km mark fall outside of the Preliminary Study Area identified in the Minister Approved Terms of Reference. Further, given the type of facility, the operational data and through professional air quality experts, the 1.5 km preliminary study is determined to be appropriate and reasonable to establish existing conditions to complete an effects assessment. The Air Quality team will undertake dispersion modelling using MECP guidance regarding receptor spacing and extent (ADGMO v3, February 2017, PIBs #5165e03) within the 1.5 km study area. The sources at the SCRF are ground-based (re-suspended road dust, material handling by trucks, loaders, and dozers), therefore maximum predicted concentrations are anticipated to be predicted on or very near the property boundary. The property 1.5 km radius out from the property boundary is anticipated to fully encompass the region most likely to experience any potential effects from Site operations as it relates to air quality.</p>	20-Feb-2018	Email/Letter
		<p>Geology & Hydrogeology Existing Conditions Report & Work Plan: Relying too heavily on secondary sources (previous studies) to establish existing conditions</p>	<p>Terrapure collects monitoring data on an annual basis and has done so for over 20-years. Therefore, the existing conditions report for Geology/Hydrogeology is based on both primary and secondary sources. Copies of the Annual Monitoring Report are provided to both the MECP and the City of Hamilton for review.</p> <p>Further, it should be noted that during the Alternative methods evaluation and the impact assessment stages of the EA, predictive modelling will be undertaken to determine the overall net effects and impacts to Geology and Hydrogeology.</p>		
		<p>Geology & Hydrogeology Existing Conditions Report & Work Plan: There should be consideration/discussion regarding future growth as there are several developments approved yet to be built, and other development proposals under review</p>	<p>Future growth and development is considered and discussed within the Land Use report and will be assessed further during the Alternative methods evaluation and impact assessment stage of the EA.</p>		
		<p>Land Use and Economic Environment Existing Conditions Report & Work Plan: Include a section that references existing compensation agreements with the City of Hamilton</p>	<p>A section on the existing compensation agreements will be added.</p>		
		<p>Land Use and Economic Environment Existing Conditions Report & Work Plan: There is no reference to conducting a Visual Impact Assessment of the 6 alternative methods. Utilize the baseline photographic information collected from selected visual receptors/ viewpoint areas and show a superimposed visual change to the landscape based on each proposed Alternative Method and Impact Management Measures to manage potential impacts (i.e. screening, buffering/filtering) at each viewpoint</p>	<p>We agree with your comment and provided existing viewsheds within the Land Use existing conditions report. We have also completed renderings for each of the footprint options from various viewsheds, which were presented at Public Open House #1 and are available on the project website.</p> <p>It should be noted that visual impacts will be considered during the alternative methods evaluation stage, which will also identify visual Impact Management Measures.</p>		
		<p>Land Use and Economic Environment Existing Conditions Report & Work Plan: Residential Development Activity section should also include reference to residential development proposals currently being reviewed by the City of Hamilton within the study area:</p> <ul style="list-style-type: none"> • UHOPA-17-01/ZAC-17-001 – 15 Ridgeview Drive – 97 Units • ZAC-17-077 – 50 Green Mountain Road West – 189 Units • ZAC-16-056 – 157 Upper Centennial Parkway – 52 Units • UHOPA-16-27/ZAC-16-066 – 464 First Road West – 135 Units • More information can be obtained at map.hamilton.ca/development 	<p>Residential development activity will be added to the report.</p>		
		<p>Noise Existing Conditions Report: On page 2 the report states that the nearest residential dwelling is 100 m northeast of the property. On page 5 the report states that the nearest residential building is 120 m from the property. Both of these comments are incorrect. The nearest residential dwellings are located approximately 60 m to the south of the property.</p>	<p>The location of the nearest dwelling will be corrected to 60 m.</p>		



		<p>Noise Existing Conditions Report: On page 5, the report identifies "historical background noise studies" indicated the ambient sound levels to be 63dBA to 67 dBA. These "historical background noise studies" should be identified, and the data must be provided to substantiate the ambient sound level as part of the Noise Control Study in the future.</p> <p>Noise Existing Conditions Report: A figure identifying the locations of the recently approved residential developments to the north, which must be included as sensitive receptors, should be provided.</p> <p>Surface Water Existing Conditions Report & Work Plan: Relying too heavily on secondary sources (previous studies) to establish existing conditions</p> <p>Traffic Existing Conditions Report & Transportation Work Plan: No comments</p> <p>Natural Environment Existing Conditions Report & Terrestrial Aquatic Environment Work Plan: No comments</p> <p>Design & Operations Work Plan: No comments</p> <p>Miscellaneous Comments: Staff feel strongly that there should be signage on Terrapure's Site, similar to that of a development application sign to notify new home owners who are not yet living in the study area of the EA process underway (as discussed in the January 8th meeting with City Staff)</p> <p>Miscellaneous Comments: Consider providing push notification to smart phones advising people driving by that there is an EA and a link to how they can stay informed</p>	<p>References to the background noise reports will be added.</p> <p>A figure identifying the residential properties will be added and identified as sensitive receptors.</p> <p>Terrapure collects monitoring data on an annual basis and has done so for over 20 years. Therefore, the existing conditions report for surface water is based on both primary and secondary sources. Copies of the Annual Monitoring Report are provided to both the MECP and the City of Hamilton for review.</p> <p>During the Alternative methods evaluation and the impact assessment stages of the EA, predictive modelling will be undertaken to determine the overall net effects and impacts to Surface Water.</p> <p>Acknowledged</p> <p>Acknowledged</p> <p>Acknowledged</p> <p>Thank you for the suggestion. As we discussed with the City, Terrapure has been exploring a number of potential ways to communicate with new homeowners in the study area, in the interest of being as transparent as possible in sharing information with potentially interested stakeholders.</p> <p>Thank you for the suggestion. Upon considering the concept of providing push SMS notification, we do not believe it is technologically possible nor legal to track the location of mobile phone users without their permission or send mobile phone users unsolicited SMS messages.</p>		
			<p>I am emailing because we would like to schedule a meeting with you, Christine and Steve to go over a few items regarding the Terrapure SCRF EA. Some of the items we would like to discuss include;</p> <p>Review of comments/responses on draft existing conditions, address any outstanding comments/questions;</p> <p>Review project schedule and review timeline for upcoming reports; and,</p> <p>Discuss content of upcoming Public Open House #2 on March 22, 2018</p> <p>Please provide a time and location that works for you, Christine and Steve and let us know if you have any other items you would like to discuss. One hour should be sufficient to go over these items.</p>	01-Mar-2018	Email
N.A.	N.A.	N.A.	<p>Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018</p>	08-Mar-2018	Email
22-Mar-2018	Open House	<p>City of Hamilton Staff attended and participated in the SCRF EA Open House #2 on March 22, 2018</p>	<p>Terrapure hosted the SCRF EA Open House #2</p>	22-Mar-2018	Open House
23-Mar-2018	GRT Meeting	<p>City of Hamilton Staff participated in the GRT Meeting #2 Webinar.</p>	<p>The purpose of the meeting was to provide a project update including presenting the results of the Alternative Evaluation Assessment, the details of the Public Pen House #2, upcoming review timelines and next steps.</p>	23-Mar-2018	GRT Meeting
26-Mar-2018	Meeting	<p>Purpose of the meeting was to discuss remaining key milestones and timelines for review by the City of Hamilton.</p> <p>The City of Hamilton highlighted specific key dates including the planning committee meeting in September 2018 and a reminder for the upcoming municipal election.</p>	<p>Terrapure provided details of the progress of the SCRF EA including anticipated remaining timelines and review milestones.</p>	26-Mar-2018	Meeting
N.A.	N.A.	N.A.	<p>As mentioned, here are the key milestone dates we are driving towards for your internal planning purposes:</p> <ul style="list-style-type: none"> - Comments back from GRT/Stakeholders on Recommended Option – April 27 - Public Open House to present detailed design and impact assessment results – Second last week of June - Draft EA Report – published in late August to late September (6 weeks) 	30-Mar-2018	Email



				- Revise Draft EA Report based on comments received from GRT/ Stakeholders – Nov-Dec (Oct would be used for receiving comments on Draft) - Finalize and submit EA to MECP – 1st week of Jan		
19-Apr-2018	Email	Thank you for sending this. I will ensure staff and Councillors receive it.		Please find attached a matrix of the visual renderings as you requested. It has also been uploaded to the website document library here: http://www.terrapurestoneycreek.com/document-library/ I hope this is what you were looking for and can assist in showing what each of the options would look like more easily to city staff and councillors. Let me know if you have questions.	19-Apr-2018	Email
27-Apr-2018	Email	Please see the attached PDF letter containing staff comments regarding the latest Draft Alternative Methods Evaluation Report. Let me know if you have any comments or need clarification on anything.		I just wanted to send a friendly reminder that the comments on the Alternative Methods Report are due back to us by this Friday April 27th 2018. Please let me know if you have questions/concerns.	23-Apr-2018	Email
N.A.	N.A.	N.A.		As part of our commitments made during the Terms of Reference (ToR) phase of the EA we committed to working with the City of Hamilton to determine financial value/assessment of the properties surrounding the landfill and how they are/have been potentially impacted. We committed to completing this research and findings during the next phase (Impact Assessment) of the EA and therefore is something we would like to get started on very soon given the tight schedule. Attached is the comment (last row) from the City as well as our response/commitment. To get the ball rolling, I think it may be best to set up a phone call or in person meeting so that we can determine the best approach for completing this research.	24-Apr-2018	Email
01-May-2018	Meeting	Meeting with the City of Hamilton and the Mayor to provide an update on the process, the recommended option selected, what we heard from the public at the 2nd Open House. City staff provided the details to the Mayor regarding the comments submitted on the Draft Alternative Methods Report. Discussed the terms of the existing Royalty Program.		Terrapure provided an update on the status of the SCRF EA progress and answered clarifying questions	1-May-2018	Meeting
27-Apr-2018	Email/Letter	City of Hamilton – Council Members: Council have expressed concerns that a null and void option was not reviewed as a 7th Alternative Option for base comparison purposes.		Thank you for your comment. Within the Alternative Methods Report a 'do nothing' or "null and void" option was discussed in Section 4.1.1 . The "Do Nothing" option was used as a matter of best practice, in order to establish a "benchmark" when evaluating and assessing the advantages and disadvantages of 6 alternative landfill footprint options (Alternative Methods) that were considered and evaluated. While the 'do nothing' option was included and assessed as described above, it should be noted that it does not address the Purpose of the Undertaking as described in the Approved Amended Terms of Reference and therefore is not a viable option. The Do Nothing option was also assessed during the Terms of Reference as part of the Alternatives To/Options to address the economic opportunity, which was included as Supporting Document #1 to the Amended ToR.	24-May-2018	Email/Letter
		City of Hamilton – Planning and Economic Development Department, Community Planning Section, Development Planning Section: Within the conclusion section of this report there should be a section regarding next steps which should include assessing impacts this EA will have on existing agreements with the City and Heritage Green Community Trust. It is imperative that this be reviewed as part of the Environmental Assessment process.		As the existing agreements relate to the current approvals at the SCRF and therefore come to an end when the current capacity for residual materials is reached, Terrapure has committed to meeting with the City to discuss the possibility of establishing a new host/compensation agreement in relation to the proposed undertaking. We understand that a meeting between Terrapure and the City (through Finance and Legal departments) is being coordinated to occur within the next few weeks.		
		Public Works Department, Environmental Services: From a technical standpoint, staff have no issues with the listed options.		Thank you for your comment.		
		Planning and Economic Development Department, Infrastructure Planning: Overall we concur with their preferred option 5 as this option allows Terrapure to achieve their economic goals while minimizing impacts.		Thank you for your comment.		
		Public Health, Health Hazards Program: Public Health Services' staff have reviewed the report "Draft Alternative Methods Report Assessment of Landfill Expansion Alternatives" for the Stoney Creek Regional Facility Environmental Assessment and provide the following comments: 1. The Evaluation of expected human health impact, based upon indicators of leachate, groundwater, surface water, and soil quality for all alternative options are expected to have no net effect on human health. 2. The evaluation of expected human health impacts based upon the indicator of air quality indicates that 'option 3' is preferred. That said, all alternative options are indicated to present 'low potential for adverse effects with the continuation of the existing Site's Impact Management		Thank you for your comment. Summary tables including parameters of Pm 2.5 and 10 and Tsp and VOCs will be provided at the detailed impact stage/assessment for the preferred alternative (Alternative #5) once further modeling has been undertaken.		



		Measures augmented with additional Best Management Practices, where proposed, and ongoing monitoring." 3. If summary tables or charts for modelled end values be included for all 6 options. Parameters would include Pm2.5 and 10, Tsp and VOCs. Full modelling datasets are not required.				
		City Manager's Office, Dispute Resolution Section (Legal Services): The EA should consider revisiting the Compensation Agreements as part of the proposed reconfiguration of the Site.		As the existing agreements relate to the current approvals at the SCRF and therefore come to an end when the current capacity for residual materials is reached, Terrapure has committed to meeting with the City to discuss the possibility of establishing a new host/compensation agreement in relation to the proposed undertaking. We understand that a meeting between Terrapure and the City (through Finance and Legal departments) is being coordinated to occur within the next few weeks.		
		Corporate Services (Capital Budgets): Compensation agreements have not been mentioned. It should be included once the decision of which alternative option has been finalized.		Terrapure has committed to meeting with the City to discuss the possibility of establishing a new host/compensation agreement in relation to the proposed undertaking. We understand that a meeting between Terrapure and the City (through Finance and Legal departments) is being coordinated to occur within the next few weeks. It should be noted though, that this process will occur in parallel with the EA process.		
N.A.	N.A.	N.A		Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
19-Jun-2018	Open House	City Staff attended the SCRF EA Open House #3		Terrapure hosted the SCRF EA Open House #3	19-Jun-2018	Open House
20-Jun-2018	Email	I have a meeting from 9 – 12 on Tuesday. So could one of the following work: 9 – 10 am Wednesday June, 27th 9 – 10 am Thursday June, 28th 10 - 11 am Thursday June, 28th		For the update call/webinar as we discussed last night how is next Tuesday (26th) sometime between 9am and 2pm or Wednesday (27th) at 2pm. We would need an hour. Let me know what works best for you and other staff. Below is the agenda and presentation content: Agenda Items: 1. Welcome and Introductions 2. EA Process 3. Summary of Technical Work/Reports 4. Preferred Option 5. Detailed Impact Assessment Results and Impact Management Measures 6. Cumulative Effects and Climate Change 7. Overview of Open House # 3 8. Upcoming Review/Project Milestones 9. Questions and Discussions	20-Jun-2018	Email
N.A.	N.A.	N.A		I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below: Draft Detailed Impact Assessment Reports for the Preferred Option <ul style="list-style-type: none"> • Air Quality and Odour • Geology and Hydrogeology • Land Use and Economic • Terrestrial and Aquatic Environment • Noise • Surface Water • Traffic • Design & Operations • Facility Characteristics Report We would appreciate your comment and review by Friday July 20th 2018. Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.	25-Jun-2018	Email



28-Jun-2018	Meeting	<p>The City of Hamilton and City councillors asked clarifying questions about the status of the project, upcoming review timelines, and the detailed impact assessment results.</p> <p>Some of the discussion questions included:</p> <p>Can you elaborate on the timeframe for MECP review and process?</p> <p>Can you provide the visual cross-sections and explain them?</p> <p>Can you explain progressive capping and when you will begin the process?</p> <p>Have you done a Traffic Impact Study?</p> <p>How did you come up with 2.5m? Can you reduce to 1.5m</p> <p>Is there any way to restrict the truck limit to around 100 per day instead of 250?</p> <p>How often have you reached the 250 limit or how close have you gotten?</p> <p>When will the Heritage Green Community Trust be discussed?</p> <p>What about assessing property value and property taxes? How was this done?</p>	<p>Terrapure presented the EA process, the technical work completed, the detailed impact assessment of the preferred option, how cumulative effects and climate change were incorporated as well as an overview of the Open House #3 and the upcoming project milestones and next steps.</p> <p>In addition, Terrapure answered questions asked by City of Hamilton staff and councillors.</p>	28-Jun-2018	Meeting
N.A.	N.A.	N.A	<p>See below for summary of the EA Phase and anticipated timelines. I hope this helps in understanding when you can expect to comment/review. I also attached the flow diagram on review timelines from the EA Codes of Practice (this is the one we were looking at during the Open House)</p> <p>EA Phase</p> <p>Pre-submission or Draft EA – Terrapure committed to a pre-submission/draft in the Terms of Reference. This will be for 5 weeks for review and comment by stakeholders (including the City, comments come directly to Terrapure)</p> <p>August 24th 2019 to September 28th 2018</p> <p>After Pre-submission - Terrapure will make changes and addresses comments on draft EA to finalize for submission</p> <p>October 1st 2018 to December 2018</p> <p>Final EA is submitted with the Notice of Submission – 7 week review period for stakeholder review of Final version of EA from date of Notice (City will provide comments to MECP at this time)</p> <p>Jan 4th 2019 to Feb 22nd 2019</p> <p>Notice of Completion of Ministry Review of EA – 5 week review period for Ministry to review Final EA and the comments received during the 7 week period, Ministry posts their review (in the form of a review document) at the end of 5 week period. The review is focused on things like, did the proponent undertake the EA in accordance with the approved Terms of Reference, what are advantages/disadvantages to the environment, what consultation was undertaken and how was it incorporated into the EA, etc.)</p> <p>Feb 22nd 2019 to March 29th 2019</p> <p>Public Inspection of Ministry Review – 5 weeks for public to comment on the Ministry's review (City can comment here as well)</p> <p>March 29th 2019 to May 3rd 2019</p> <p>Minister Review and Decision - Minister has 13 weeks after the 5 week public inspection review period to make a decision</p> <p>May 3rd 2019 to August 2nd 2019</p>	29-Jun-2018	Email
N.A.	N.A.	N.A	<p>I wanted to just send a friendly reminder that we are looking to get any comments and feedback on the detailed impact assessment reports for the SCRF EA by this <u>Friday July 20th 2018</u>. Thank you for coordinating and let me know if you need anything for me.</p>	18-Jul-2018	Email
20-Jul-2018	Email/Letter	<p>Attached are our staff and council comments on the Detailed Impact Assessment Reports (Draft for Discussion).</p> <p>Please advise when you anticipate having your responses and updated reports to us by.</p> <p>Further, when will the preliminary draft EA report for the purposes of my report going September 18th be sent? I've already technically missed my first internal deadline so the sooner the better, as I will need to send out components to the various experts for their technical review to ensure their comments and questions have been addressed or not.</p>	<p>Please find attached a copy of our responses to City Staff comments on the draft Impact Assessment Reports (July 20, 2018).</p> <p>I will send a separate email with the request for the Noise information.</p> <p>Any questions, please let me know.</p>	03-Aug-2018	Email/Letter
20-Jul-2018	Letter	<p>Planning and Economic Development Department, Community Planning Section, Development Planning Section:</p>	<p>As per Section 6.3, "As a conservative approach for the purpose of the intersection operational analysis, based on the 250 daily maximum vehicles permitted to deposit waste at the Site and the generally random arrival and departure times of SCRF vehicles as noted</p>		



		<p>In the Traffic Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated June 19, 2018, the summary of 7.1 Potential Effects on Traffic, states that with the 2023 future conditions intersection analysis, the operational impact is expected to be negligible. The current maximum allowable vehicles today is 250 vehicles, whereas the Site currently receives on average 100 vehicles per day. Please provide more detail on the analysis leading to the opinion that increasing the vehicular traffic by 1.5 times will be negligible.</p>	<p>above, the intersection analysis considers 250 SCRF vehicles arriving and departing over the Site's ten operating hours in an even distribution." The Future Background Condition analyzes the study intersections without the SCRF vehicles at the future horizon year, and the subsequent Future Total Condition analyzes the intersections with the addition of the SCRF vehicles (250 per day, as a conservative measure, not the current 100 per day estimated). Therefore the results of the analysis, as described in Potential Effects on Traffic, describes the change in operations with the added 250 SCRF vehicles per day. As stated in Section 7.1, the operational impact is negligible.</p>		
		<p>Planning and Economic Development Department, Community Planning Section, Development Planning Section: With regards to the Noise Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated June 19, 2018, the following comments and questions should be addressed:</p>			
		<p>A Noise Impact Assessment must be signed and stamped by a qualified professional, preferably an engineer specializing in environmental acoustics. Ensure that future versions meet this requirement.</p>	<p>The report was provided in a draft format for review and discussion purposes. The final version of the report will be stamped.</p>		
		<p>Please provide the background noise studies which were conducted to identify the ambient sound level of 62 dBA based on local traffic volumes. This is critical because the measured sound levels at POR 1 exceed the MOECP sound level limit but are deemed to comply with the ambient sound level limit of 62 dBA. The background study needs to be reviewed to confirm the ambient sound level.</p>	<p>GHD's background sound level assessment of the area along Green Mountain road (POR1) was recently updated based on GHD's Traffic Detailed Impact Assessment Report, which included future volumes for Red Hill Residential Development – Phase 1 & Phase 2 as well as the Victory Development. GHD used the forecasted traffic volumes (2023) based on turning counts for vehicles travelling on Green Mountain Road. Note that the development only becomes a point of reception once the development is built and it is therefore reasonable to use the increased traffic from the development to develop site-specific limits. GHD relied on forecasted AM and PM peak traffic counts to calculate an hourly daytime average to determine a revised sound level limit of 60 dBA at POR1.</p>		
		<p>Page 8 identifies POR 3 as being located approximately 130 m south of the Site. It appears that POR 3 is actually 60 m south of the Site limits. Please clarify.</p>	<p>GHD has changed the distance in the report to be from the façade of POR3 to the property line (60m) and not to the working face (130m).</p>		
		<p>Please provide the CadnaA modelling information which was used to calculate the sound levels at each POR. This should be provided as an appendix to the report.</p>	<p>GHD updated the report to include this background assessment as well as provide the CadnaA modelling inputs used in the assessment. We will send this in a subsequent email for distribution.</p>		
		<p>Table 6.1 on page 16 - is the Site specific noise limit 62 or 63 dBA? On page 5 it was listed as 62 dBA, but the table indicates both values. Again, this stresses the need for the background noise studies, as indicated above, to clarify the ambient sound level limit.</p>	<p>The Site specific limit for POR1 has been revised based on updated traffic data to be more conservative with a limit of 60 dBA. The other POR's (POR3&4) have a limit of 63 dBA due to the road traffic from Mud Street on the opposite side of the Site.</p>		
		<p>The study concludes that noise Impact Management Measures will not be required. However, the previous study "Draft Alternative Methods Report Assessment of Landfill Expansion Alternatives, March 22, 2018" had identified that noise mitigation in the form of a berm on the north side would be required for any of the options. Please provide further explanation.</p>	<p>The previous study was based on existing ambient conditions and did not take into account the future volume of traffic due to the new subdivision. Through further analysis based on additional documentation obtained throughout the EA process and through application of a greater level of design within the Facility Characteristic Report (FCR), the revised modeling allows for continuation of the existing berm. This is based on new traffic results, which have influenced the background noise volumes/ limits.</p>		
		<p>Page 18, section 6.3 Net Effects, includes the statement "There are some residences to the north which may experience a noise level increase of +5 dBA from the existing conditions". This is vague -which residences will be impacted (how many), and does this require mitigation? Impacted residences should be plotted on a figure.</p>	<p>The net effect for the future residences at POR1 will ~ +5 dBA from existing impacts which are either at or below the MECPL limit of 55 dBA at the same location (currently not occupied). The expected impacts from the Site are estimated to be 60 dBA at the worst-case location POR1 during Phase 4 as detailed on Table 6.3. A noise contour plot was included in the report to show the impact to the north on Figure 6.1.</p>		
		<p>Public Works Department, Source Water Protection: The following comments are provided regarding the Geology and Hydrogeology Impact Assessment Report and the Design & Operations Detailed Impact Assessment (Draft for Discussion), both prepared by GHD, dated June 19, 2018:</p>			
		<p>Clay Liner construction details should be provided discussing how the liner was continued after being capped. What Quality control or testing was completed to ensure seamless construction and similarity of source material?</p>	<p>The base liner system is constructed in phases that are sized to accommodate current waste disposal needs. A temporary berm is constructed surrounding each phase to ensure that full containment of waste and leachate is maintained at all times. New phases are carefully connected to existing phases to ensure that a continuous base liner system is constructed. Clay liners are connected by benching successive lifts to ensure that no seams are present. The geomembrane liner is fused together using specialized welding equipment. Pipes are connected using electro-fusion couplings. Quality assurance/quality control measures for the construction of the base liner system are outlined in technical specifications that are subject to Ministry approval. This includes both field and laboratory testing of all base liner system components such as geosynthetics, soils, aggregate, and piping. Clay is obtained from on-site stockpiles that were derived from the original quarry overburden, ensuring similarity of source material.</p>		



		<p>Off-Site domestic water quality information should be provided to Hamilton Water, Source Water Protection.</p>	<p>Originally, six domestic wells existed near the Site. Three wells were decommissioned for subdivision development, permission to sample two of the other wells has been denied, and the private well monitored most consistently (Private Well 1) has not been accessible due to subdivision construction since 2015. As this property was sold and is intended for subdivision development, it is assumed the domestic well will be decommissioned. Accordingly, there is no recent domestic water quality data available for the vicinity of the SCRF. Historical domestic water quality data can be provided to Hamilton Water, Source Water Protection, upon request.</p>				
		<p>Details pertaining to the establishment of true background water quality and RUC calculations should be provided.</p>	<p>The values used in preparation of the Reasonable Use criteria were primarily derived from the original March 1997 submission to the MECP, updated by adjusting background concentrations to reflect natural variations. The MECP Guideline B-7 and B-7-1 Incorporation of the Reasonable Use Concept into the MECP Groundwater Management Activities and Determination of Contaminant Limits and Attenuation Zones (MECP, 1994) recommends that Reasonable Use criteria be updated once every three to five years to account for natural fluctuations in background water quality. The Reasonable Use criteria used in the detailed impact assessment were consistent with those calculated for the 2016 and 2017 Annual Monitoring Reports for the Site. Background water quality is updated using data from monitoring locations located in an upgradient position relative to the SCRF.</p>				
		<p>Clay liner leachate compatibility testing should be provided. Clay liner hydraulic performance under the range of pressures associated with the range of waste depths proposed should be assessed.</p>	<p>Clay liner/leachate compatibility testing carried out as part of the original EA indicated that the clay was mineralogically stable and that permeability was not impacted due to contact with leachate. Although no significant changes have been observed in either the clay or the leachate since this time, additional compatibility testing is currently being undertaken to confirm that there are no effects on the permeability of the clay liner. Further details will be provided in the Draft EA Report.</p> <p>Both in-situ and laboratory hydraulic conductivity testing are undertaken during the construction of the clay liners. These tests have been carried out over a range of operating conditions (e.g., cell pressure, head pressure, effective consolidation pressure) that are representative of both the current and expanded landfill. Results of this testing have shown that hydraulic conductivity values below the required 5×10^{-8} cm/s are consistently being achieved.</p>				
		<p>Planning and Economic Development Department, Real Estate: The Land Use and Economic Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated June 19, 2018, appears to have gaps within the analysis regarding tax and property valuation impacts. During the draft Terms of Reference phase, staff had recommended that Terrapure and its consultants undertake some research on the impacts of landfill developments on property value and consult with an expert such as a Land Economist. It was recommended that they also include an assessment of the impact on the City's tax assessment base. Further, it was recommended that they engage a land economist and an appraiser to complete this detailed analysis.</p>	<p>Terrapure is currently conducting research into potential effects to the City of Hamilton property tax base within 1500m of the Stoney Creek Regional Facility (SCRF). Terrapure has been collecting and reviewing an inventory of historical sales records of residential properties within the 1500m study area pre and post- 1996 (i.e. when the landfill was first developed and under operation) to determine pricing trends and outside influences. Identification of any potential effects to the City's tax assessment will be determined and presented in the Draft EA Report.</p>				
		<p>Public Health, Health Hazards Program: At this point Public Health Services staff has no formal detailed comments as it deals with the environmental technical reports. However, future comments may be expected upon our review of the modified Human Health Risk Assessment Report (HHRA).</p>	<p>Thank you for your comment.</p>				
		<p>Corporate Services (Capital Budgets): There are no comments regarding the draft detail impact assessments. However, we express that future discussions regarding compensation agreements should consider the details of the preferred alternative option and design and these agreements should be finalized before the completion of the EA</p>	<p>Thank you for your comment. Terrapure welcomes discussions on the compensation agreements with Staff and Council, which will consider the details of the preferred option.</p>				
	N.A.	N.A.	<p>As per the request and our response letter in the email that passed moments ago:</p> <table border="1"> <tr> <td> <p>Please provide the CadnaA modelling information which was used to calculate the sound levels at each POR. This should be provided as an appendix to the report.</p> </td> <td> <p>GHD updated the report to include this background assessment as well as provide the CadnaA modelling inputs used in the assessment. We will send this in a subsequent email for distribution.</p> </td> </tr> </table> <p>Please find attached the files as promised. Any questions, please let me know.</p>	<p>Please provide the CadnaA modelling information which was used to calculate the sound levels at each POR. This should be provided as an appendix to the report.</p>	<p>GHD updated the report to include this background assessment as well as provide the CadnaA modelling inputs used in the assessment. We will send this in a subsequent email for distribution.</p>	03-Aug-2018	Email
<p>Please provide the CadnaA modelling information which was used to calculate the sound levels at each POR. This should be provided as an appendix to the report.</p>	<p>GHD updated the report to include this background assessment as well as provide the CadnaA modelling inputs used in the assessment. We will send this in a subsequent email for distribution.</p>						
08-Aug-2018	Email	<p>PHS is aware GHD recently submitted to City Planning two additional chapters 6/8 -including more info on the impact assessment component.</p>	<p>The Chapters submitted to the Planning Department included all information contained in the Impact Assessment Reports. Chapter 6 is the impact assessment itself and Chapter 8 relates to the monitoring. No new information on Human Health was included in these chapters - it was the same information as the stand-alone report that you and your department reviewed, but merely a consolidation of all impact assessment reports into a</p>	08-Aug-2018	Email		



			<p>Is any other technical information anticipated for the Human Health Detailed Impact Assessment? I infer that's the catchphrase capturing a modified HHRA going forward.</p> <p>If so - what and when? Has any input been given by the MECP on what is required around this subject area (human health) or is this still yet to be determined as the EA moves forward.</p>	<p>single Chapter for the EA Report. We were providing this to the City so they had the chance to review the "pre-draft" EA Report in order to ensure we hit the Committee Meeting date in September to provide a report to Committee and Council. We anticipate the Draft EA Report will be formally posted for public and agency comment at the end of August/Beginning of September, but we do not anticipate new information on Human Health at this time.</p> <p>Hope this helps clarify things.</p>																
	N.A.	N.A.	N.A.	<p>We received a voicemail asking about our timelines and asked me to forward along our anticipated schedule.</p> <p>Please see below.</p> <table border="1"> <thead> <tr> <th>EA Phase</th> <th>Anticipated Timeline</th> </tr> </thead> <tbody> <tr> <td>Draft EA Available for Review – Terrapure committed to making the draft EA available in the Terms of Reference. This will be for 7 weeks for review and comment by stakeholders (including the City, comments come directly to Terrapure)</td> <td>August 31st 2019 to October 24th 2018</td> </tr> <tr> <td>After Draft Review - Terrapure will make changes and address comments on draft EA to finalize for submission</td> <td>October 24th 2018 to December 2018</td> </tr> <tr> <td>Final EA is submitted with the Notice of Submission – 7 week review period for stakeholder review of Final version of EA from date of Notice (City will provide comments to MECP at this time)</td> <td>Jan 4th 2019 to Feb 22nd 2019</td> </tr> <tr> <td>Notice of Completion of Ministry Review of EA – 5 week review period for Ministry to review Final EA and the comments received during the 7 week period, Ministry posts their review (in the form of a review document) at the end of 5 week period. The review is focused on things like, did the proponent undertake the EA in accordance with the approved Terms of Reference, what are advantages/disadvantages to the environment, what consultation was undertaken and how was it incorporated into the EA, etc.)</td> <td>Feb 22nd 2019 to March 29th 2019</td> </tr> <tr> <td>Public Inspection of Ministry Review – 5 weeks for public to comment on the Ministry's review (City can comment here as well)</td> <td>March 29th 2019 to May 3rd 2019</td> </tr> <tr> <td>Minister Review and Decision - Minister has 13 weeks after the 5 week public inspection review period to make a decision</td> <td>May 3rd 2019 to August 2nd 2019</td> </tr> </tbody> </table>	EA Phase	Anticipated Timeline	Draft EA Available for Review – Terrapure committed to making the draft EA available in the Terms of Reference. This will be for 7 weeks for review and comment by stakeholders (including the City, comments come directly to Terrapure)	August 31 st 2019 to October 24 th 2018	After Draft Review - Terrapure will make changes and address comments on draft EA to finalize for submission	October 24 th 2018 to December 2018	Final EA is submitted with the Notice of Submission – 7 week review period for stakeholder review of Final version of EA from date of Notice (City will provide comments to MECP at this time)	Jan 4 th 2019 to Feb 22 nd 2019	Notice of Completion of Ministry Review of EA – 5 week review period for Ministry to review Final EA and the comments received during the 7 week period, Ministry posts their review (in the form of a review document) at the end of 5 week period. The review is focused on things like, did the proponent undertake the EA in accordance with the approved Terms of Reference, what are advantages/disadvantages to the environment, what consultation was undertaken and how was it incorporated into the EA, etc.)	Feb 22 nd 2019 to March 29 th 2019	Public Inspection of Ministry Review – 5 weeks for public to comment on the Ministry's review (City can comment here as well)	March 29 th 2019 to May 3 rd 2019	Minister Review and Decision - Minister has 13 weeks after the 5 week public inspection review period to make a decision	May 3 rd 2019 to August 2 nd 2019		
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Hamilton-Wentworth Catholic District School Board (HWCDSB)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter														
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email														
	08-Dec-2017	GRT Meeting	HWCDSB attended the GRT#1 Webinar	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting														
	N.A.	N.A.	N.A.	Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies	14-Dec-2017	Email														
	24-Jan-2018	Email	Thank you for sending the reports to us. I have forwarded them to our Planning Department Staff for their review and thoughts. If we have any comments I will get them back to you by the 31st.	<p>In mid-December you received an email from my colleague as a follow up to a meeting you attended for the Terrapure Stoney Creek Regional Facility Environmental Assessment on December 8th, 2017. The email included several reports for your review including; Land Use & Economic Work Plan and Draft Existing Condition Report and the Draft Conceptual Design Report.</p> <p>If you have any comments or questions on these reports please provide by Wednesday January 31st, 2018. If you would like to schedule a meeting or phone call to discuss, please respond back and we can have this set up.</p> <p>Alternatively, if you would like to be removed from the project contact/distribution list please let me know.</p> <p>If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version</p>	24-Jan-2018	Email														



				that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used.		
31-Jan-2018	Email	Nicole and I have reviewed the documents and think that it would be worthwhile to be able to meet with you. If you are able to provide some dates, we can proceed to set something up.		No problem, we would be happy to meet and discuss. Please let me know a date/time and location that work for you and Nicole and I will get it scheduled.	1-Feb-2018	Email
N.A.	N.A.	N.A		Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
13-Mar-2018	Meeting	HWCDSD provided information and questions including: Public School planned for North of Heritage Green Passive Park In review of Secondary Plan, no need for addition Catholic school, but potential for addition to St. Paul and replacement at St. James with larger school As residential development increases, so will need for additional school capacity, no defined timeline Ministry of Education reviews need for capital project and St. James was identified as a high priority but no funding received yet Approval process usually 1.5 years to build Interested in project safety including safe streets, sidewalks, and bus routes Would like to see safety be addressed in Traffic Impact Assessment		Presented the comparative evaluation of the Alternative Methods Discussed urbanization, traffic, road safety Informed of next Open House and GRT webinar	13-Mar-2018	Meeting
N.A	N.A	N.A		Sorry for the delay, but I wanted to pass along my meeting notes from our discussion on the 13th regarding the Terrapure EA and traffic impacts. Please let me know if you have any questions, comments or additions. Also, here is the link to our project website which contains all of the reports/documents completed so far: http://www.terrapurestoneycreek.com/document-library The most recent report and the topic of our last public open house (march 22) is the DRAFT Alternative Methods Evaluation report which highlights the results of our net effects analysis of each option on the various environmental components including Traffic and also states the reasoning behind choosing the selected/ preferred Option #5. Please feel free to browse the document and let me know if you have questions or would like to discuss in person/phone call. Thank you again for your engagement and interest in this project.	28-Mar-2018	Email
25-Apr-2018	Email	We are reviewing the report and will have comments to you by Friday		I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest report for review. For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the preferred Option (Option 5). I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018. In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/ Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.	29-Mar-2018	Email
27-Apr-2018	Email/Letter	Thank you for providing us with an opportunity to review the Terrapure Stoney Creek Regional Facility Environmental Assessment and Alternative Methods Report. We have completed our review and the following are our comments. Terrapure is seeking the approval to increase the capacity for post diversion solid and non-hazardous industrial residual materials by		Thank you for your comment and information regarding the local schools and buses. Based on current information from the City of Hamilton, no sidewalks are being proposed fronting the SCRF. Sidewalks will be on the north side of Green Mountain Road, and the west side of First Road. In addition, Site trucks will not be utilizing Green Mountain Road – same as is the case today. Trucks will enter the Site from Centennial Parkway, and exit the Site on First	24-May-2018	Letter



		<p>3,680,000 m³ at the Stoney Creek Regional Facility (SCRF). The proposed additional capacity would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within the Hamilton and the Greater Toronto Area. Option 5 has been identified as the preferred option.</p> <p>The Stoney Creek Regional Facility is located at 65 Green Mountain Road West. The developing residential community immediately adjacent to the north of the Facility is accommodated at St. James Catholic Elementary School, St. Paul Catholic Elementary School and Bishop Ryan Catholic Secondary School. Students are bused to these schools on a daily basis. Through the development of the community, it is expected that First Road West will become urbanized with municipal sidewalks. As a result, and in accordance to the Transportation policy of the Board, the provision of school bus transportation services is expected to be reduced in the area. Therefore, students are expected to rely on other modes of transportation, including walking, cycling etc. to and from school.</p> <p>The Stoney Creek Regional Facility relies entirely on industrial truck traffic for the operation of the Facility and up to 250 vehicles are anticipated to continue to operate at the Facility on a daily basis. Industrial truck traffic is not considered compatible with neighbourhood residential and pedestrian traffic.</p> <p>Based on the above and in order to ensure student safety, we request that all truck traffic associated with the Facility be prohibited on First Road West. It is our understanding that the truck traffic is currently prohibited on Green Mountain Road West.</p>	<p>Road, heading south. This is as per the existing approvals for the Site (Environmental Compliance Approval).</p> <p>Further, students attending St. James will likely be walking the length of First Rd West to cross at Mud Street. At this time there is no pedestrian crossing at Mud Street at this location (signalized intersection) but we believe it appropriate that for the City to install pedestrian signals and painted crosswalk once a sidewalk is constructed for the length of the west side of First Rd W. Further, there are pathways for active transportation through the Heritage Green Community Park that students may choose to utilize over the sidewalk on the west side of First Road West.</p> <p>The Facility is permitted to accept a maximum of 250 trucks per day, however, on average the Site sees approximately 70 trucks per day.</p> <p>Terrapure takes safety to the surrounding community seriously and we would be pleased to discuss this important issue with you further to provide up-to-date information on the sidewalks being planned on the west side of First Road West.</p>		
N.A.	N.A.	N.A	<p>Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018</p>	04-Jun-2018	Email & Mailed Letter
N.A.	N.A.	N.A	<p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below. As you have indicated previously, of most interest to you will likely be the Traffic report which discusses traffic impacts in the areas as well as proposed mitigation and safety measures.</p> <p>We would appreciate your comment and review by Friday July 20th 2018.</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p> <p>Report Links: Draft Detailed Impact Assessment Reports for the Preferred Option Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report</p>	25-Jun-2018	Email
N.A	N.A	N.A	<p>I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports). As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018.</u></p> <p>Thank you for your interest and engagement in this project.</p>	18-Jul-2018	Email
19-Jul-2018	Letter	Thank you for providing us with an opportunity to review the latest Terrapure Stoney Creek Regional Facility Environmental Assessment Reports. We have completed our review and re-affirm our comments of April 27, 2018. We have also received a request from your consultant team	N.A	N.A	N.A



			for a meeting next week, which we understand will provide an update to the project.			
	26-Jul-2018	Meeting	In advance to the meeting, in their April 27, 2018 correspondence, the HWCDSB requested that all truck traffic associated with the Facility be prohibited on First Road West because of student safety associated with walk-ins from existing and future residential developments north and west of Green Mountain Road West to separate schools south of Mud Street.	The purpose of the meeting was to further discuss the Terrapure Stoney Creek Regional Facility Environmental Assessment (SCRF EA) with the context of the March 13, 2018 meeting held with the HWCDSB and their reiterated comments of July 19, 2018.	26-Jul-2018	Meeting
	N.A.	N.A.	N.A.	Please find attached our follow up correspondence to our meeting held with Mr. Daly and yourself for your review. Thanks again for meeting with us and we look forward to hearing from you in near future. In the mean-time, please contact us if you have any questions on the preceding information or the project in general.	08-Aug-2018	Email
	N.A.	Letter	The provision of school bus transportation services is expected to be reduced in the area of the SCRF with the urbanization of First Road West in accordance to the Board's Transportation policy. Therefore, students are expected to rely on other modes of transportation, including walking, cycling, etc. to and from school. As a result, the HWCDSB requested that all truck traffic associated with the SCRF be prohibited on First Road West.	We would like to reiterate the fact that trucks exiting the SCRF must do so via First Road West and travel southbound towards Mud Street West before turning east or west at the signalized intersection. This truck route is as per the existing approvals for the Site (Environmental Compliance Approval). Since First Road West would remain the existing exit for trucks leaving the Site, Terrapure would be willing to request that the City post a speed limit of 40 km/hr on First Road West to enhance road safety. Terrapure is not aware of any other City sponsored safety related aspects associated with the urbanization of First Road West beyond a much wider pavement platform for traveling vehicles and a sidewalk on the west side of the road to separate pedestrians from vehicular traffic. However, as previously mentioned by Terrapure, we still believe that it is appropriate for the City to install pedestrian signals and painted crosswalk at the reconstructed First Road West and Mud Street intersection as part of urbanizing First Rd West.	08-Aug-2018	Letter
Hamilton-Wentworth District School Board (HWDSB)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	8-Dec-2017	GRT Meeting	HWDSB participated at the GRT Meeting #1	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting
	N.A.	N.A.	N.A.	Thank you for participating in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Land Use & Economic Work Plan and Draft Existing Condition Report and the Draft Conceptual Design Report for your review. If you would like to review other Work Plans and Existing Condition Reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on the Work Plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used. Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you.	14-Dec-2017	Email
	N.A.	N.A.	N.A.	In mid-December you received an email from my colleague as a follow up to a meeting you attended for the Terrapure Stoney Creek Regional Facility Environmental Assessment on December 8th, 2017. The email included several reports for your review including; Land Use & Economic Work Plan and Draft Existing Condition Report and the Draft Conceptual Design Report. If you have any comments or questions on these reports please provide by Wednesday January 31st, 2018. If you would like to schedule a meeting or phone call to discuss, please respond back and we can have this set up. Alternatively, if you would like to be removed from the project contact/distribution list please let me know. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used.	24-Jan-2018	Email
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	N.A.	N.A.	N.A.	<p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest report for review. For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the preferred Option (Option 5).</p> <p>I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018.</p> <p>In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	29-Mar-2018	Email
	25-Apr-2018	Email	Thank you for the continued summary/update on the SCRF EA. HWDSB has no additional comments other than those expressed regarding the Terms of Reference – letters dated February 2017 and November 2016. HWDSB looks forward to continued updates.	Thank you for your continued engagement on this project and process. We appreciate the HWDSB taking the time to review the summary and update. We will be sure to send you future project updates.	24-May-2018	Letter
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
	N.A.	N.A.	N.A.	<p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below:</p> <p>Draft Detailed Impact Assessment Reports for the Preferred Option</p> <ul style="list-style-type: none"> Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report <p>We would appreciate your comment and review by Friday July 20th 2018.</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	25-Jun-2018	Email
	N.A.	N.A.	N.A.	<p>I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports). As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018.</u></p> <p>Thank you for your interest and engagement in this project.</p>	18-Jul-2018	Email
Ministry of Natural Resources and Forestry (MNR)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
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8-Dec-2017	GRT Meeting	MNRF participated at the GRT Meeting #1	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting
N.A.	N.A.	N.A.	<p>Thank you for participating in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Surface Water, Terrestrial and Aquatic/Natural Environment and Geology & Hydrogeology Work Plans and Draft Existing Condition Reports and the Draft Conceptual Design Report for your review.</p> <p>The Work Plans and Existing Condition Reports attached reflect the MNRF's jurisdictional mandate. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plans attached were previously circulated to you during the Terms of Reference process and are the final versions that were included as part of the Amended Approved Terms of Reference. We are passing on these work plans as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used.</p> <p>Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you.</p>	14-Dec-2017	Email
18-Dec-2017	Email	<p>MNRF staff have reviewed the natural environment work plan, and have no comments to add. Once the work has been completed, MNRF staff can provide assistance as required (e.g. advice regarding species at risk, mitigation, etc.).</p> <p>Would you mind clarifying what the conference call in January would be for? Please let us know how we can be of further assistance.</p>	Thank you for confirming that you have reviewed the natural environment work plan, and that you have no comments to add. The purpose of the conference call in January is to go through the Natural Environment Existing Condition Report with you to obtain any feedback or comments that you may have.	18-Dec-2017	Email
09-Mar-2018	Email	I will not be attending. Thank you,	Terrapure provided an email to the GRT with an invitation to the SCRf EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
N.A.	N.A.	N.A.	<p>I wanted to touch base to provide you an update on the Terrapure SCRf EA project and to provide you the latest report for review. For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the preferred Option (Option 5).</p> <p>I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018.</p> <p>In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	29-Mar-2018	Email
27-Apr-2018	Email	<p>Thank you for the opportunity to review the latest report as part of the Terrapure Stoney Creek Regional Facility EA and the Information Gathering Form (IGF) submitted April 2, 2018. Our review was undertaken to assess the potential impacts of the proposal on species protected under the Endangered Species Act, 2007 (ESA 2007). Please find Ministry of Natural Resources and Forestry (MNRF) comments below:</p> <p>Eastern Meadowlark: Based on a review of the information, MNRF staff have determined the activities associated with this project, as they are currently proposed, will adversely affect Eastern Meadowlark and its habitat and therefore would be prohibited under Section 9 (species protection) and/or Section 10 (habitat protection) of the ESA 2007 without authorization from MNRF.</p> <p>This project may be eligible for online registry under Section 23.6 of O.Reg. 242/08. An email from Lisa Horn at GHD (April 26, 2018) indicated that the area of habitat for Eastern Meadowlark would be approximately 11.5 hectares. The regulation stipulates that impacts less than 30 hectares in size may be eligible to register if the rules in regulation are followed. More information is available on the MNRF's website: https://www.ontario.ca/page/bobolink-and-eastern-meadowlark-habitats-and-land-development.</p>	<p>Thank you for the response. Our natural environment scientists and technical team are in the process of developing a plan to address Eastern Meadowlark and habitat and will continue to engage and consult with the MNRF during the next stage of the EA – the Impact Assessment. Our team are aware of the online registry process and prior to any work commencing, the team will register the work with MNRF through the online registry. The Guelph MNRF office will continue to be sent project updates and any applicable changes that may affect the Natural Environment.</p>	24-May-2018	Letter



			<p>If the rules in regulation cannot be met, the proponent may require a permit under section 17(2)(c) to provide an overall benefit to the species. Please be advised that applying for a permit does not guarantee approval.</p> <p>Barn Swallow: The information gathering form did not identify any features currently being used by Barn Swallow for nesting. If further studies show that nests are present on any anthropogenic structures that are being removed or relocated, the proposed work may be eligible to be registered if the project parameters meet the criteria described in Section 23.5 of O.Reg. 242/08. If no impacts to nests are anticipated, the activities will not likely contravene the ESA 2007, and no authorization would be required with respect to this species.</p> <p>Please be advised that it is your responsibility to comply with all other relevant provincial or federal legislation, municipal by-laws, other MNRF approvals or required approvals from other agencies.</p> <p>Should any of the project parameters change, please notify the MNRF Guelph District office immediately to obtain advice on whether the changes may require authorization under the ESA 2007.</p>			
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
	27-June-2018	Email	<p>Our Management Biologist, has had the opportunity to review the updated reporting (Terrestrial and Aquatic Environment), and can provide the following comments:</p> <p>From an Endangered Species Act (ESA) perspective, the project team has identified the need to register for the impacts to Eastern Meadowlark, and if nesting Barn Swallows are found, the need to follow the ESA to register has been identified.</p> <p>At this time, there do not appear to be any other requirements under the ESA. Please note, however, that the ESA is dynamic legislation, with species being uplisted and downlisted, and any changes should be considered throughout the whole process.</p>	<p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below:</p> <ul style="list-style-type: none"> Draft Detailed Impact Assessment Reports for the Preferred Option Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report <p>We would appreciate your comment and review by Friday July 20th 2018.</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	25-Jun-2018	Email
Ministry of the Environment, Conservation and Parks (MECP)	14-Nov-2017	Email	<p>I would like to take this opportunity to inform you that the Minister of the Environment and Climate Change has approved the amended Terms of Reference for the proposed Stoney Creek Landfill Facility Expansion, with amendments. Please find attached the Notice of Approval and accompanying cover letter. A hard copy of the Notice and cover letter will be sent by mail to Ms. Kim Bailey of Terrapure Environmental.</p> <p>In closing, I would like to extend an invitation to Terrapure Environmental to meet with Ministry of the Environment and Climate Change staff to discuss the next steps in the approvals process. Should you have any questions or concerns, or to set up a meeting, please feel free to contact me at your earliest convenience.</p>	N.A.	N.A.	N.A.
	15-Nov-2017	Email	<p>Thank you for your e-mail, and follow-up phone call. As requested, I have reviewed the draft Notice and have made some suggested edits for your consideration. As discussed during our phone call, the intent of these edits is to ensure that the preamble of the Notice is not interpreted as presupposing the outcome of the EA process, and that the language used reflects the template wording in the Ministry's Codes of Practice.</p>	<p>Following up with you with regards to the Notice of EA Commencement and to make a request to meet with you as part of initiating the Stoney Creek Regional Facility EA now that the Minister has approved the Amended Terms of Reference.</p> <p>With that in mind, please find attached our proposed Notice of EA Commencement for your review prior to us issuing in the newspaper and posting it on the Project's website. The Notice is based on the Ministry's Codes of Practice reflecting the particulars of this EA.</p>	15-Nov-2017	Email



		In addition, I have secured a boardroom for the proposed meeting on Friday November 24, 2107. The boardroom has been reserved from 9:30 am to 11:00. I will send out a formal meeting invite shortly. Should you have any questions or concerns, please feel free to contact me at your earliest convenience.	In terms of the meeting, I understand that you are currently available on Friday, Nov. 24th. As a result, we can meet with you at your offices anytime btw 10:30 am and 2:30 pm on that day. Please confirm a time that works best for you within that time slot		
N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
17-Nov-2017	Email	The copy of the ToR is in hand and we will have it available should anyone wish to review it here at the District.	Just wanted to let you know that we are sending a copy of the Approved amended ToR for the Stoney Creek Regional Facility EA to your attention as Gavin Battarino wanted us to put a copy on public display at the Hamilton District Office. The Notice of Commencement (EA) will appear in the paper tomorrow and Saturday. I'll give you a shout as well.	16-Nov-2017	Email
24-Nov-2017	Meeting	The project officer provided further details for the amendments to the Approved Terms of Reference and			
N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
05-Dec-2017	Email	Thank you very much for the summary of how stakeholders were notified about the commencement of the EA process; and, engagement opportunities.	<p>As requested in your recent meeting with the project team, below is a summary of how stakeholders were notified of the commencement of the EA and of this week's Open House. Please let me know if you have any questions on this</p> <p>Notice of Commencement</p> <p>The Notice of Commencement was placed in the Hamilton Spectator on November 17 and 18, 2017 and in the Stoney Creek News on November 23, 2017</p> <p>November 17, 2017 - the Notice of Commencement was:</p> <ul style="list-style-type: none"> sent by registered mail and email to Indigenous Communities sent by registered mail to over 40 Adjacent Property Owners. sent by email to Review Agencies, along with the initial invitation for the GRT Meeting on December 8 sent by email to the public (142 people) and by mail to people on the Stakeholder Contact List that we did not have an email for (~30 people). <p>Advertised on Facebook and Twitter project account</p> <p>Posted on the website</p> <p>November 30, 2017 - follow calls were made for both the Notice of Commencement and Public Open House to Indigenous Communities</p> <p>Notice of Open House</p> <p>Notice of Open House was placed in the Hamilton Spectator on November 23, 2017, the Stoney Creek News on November 30, 2017 and will run in Hamilton Spectator again on December 2, 2017.</p> <p>November 21, 2017 - the Notice of Public Open House was sent by mail to people on the Stakeholder Contact List that we did not have an email for (~30 people).</p> <p>November 22, 2017 - the Notice of Public Open House was sent by registered mail to Indigenous Communities and Adjacent Property Owners.</p> <p>November 22, 2017 - a mobile sign announcing the Open House was placed south of the south-west corner of Upper Centennial Parkway and Green Mountain Road on Terrapure property (see photo below).</p> <p>November 22 -24 - the postcard version of Open House Notice was sent by unaddressed mail to 7,256 residences and businesses within 1.5 km of the Site</p> <p>November 23, 2017 - the Notice was place on the website and advertised on Facebook and Twitter project accounts</p> <p>November 23, 2017 - the post card version of Open House Notice was sent by addressed mail out to 690 residences in Victory Ridge and Penny Lane Estates</p> <p>November 24, 2017 - the Notice was emailed to Indigenous Communities and the public (142 people)</p> <p>November 28, 2017 - the Notice was sent to GRT with a another invitation for the GRT meeting on December 8, 2017</p> <p>November 29, 2017 - the Notice was advertised again on the Facebook and Twitter project accounts</p> <p>November 30, 2017 - follow calls were made for both the Notice of Commencement and Public Open House to Indigenous Communities</p>	05-Dec-2017	Email



				November 30, 2017 – story in the Stoney Creek News on the Open House (https://www.thespec.com/community-story/7968847-open-house-seeks-feedback-on-taro-dump-expansion-bid/)																						
N.A.	N.A.	N.A.		Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting																				
13-Dec-2017	Email	For the purposes of efficiency, I would suggest that GHD distribute the materials to all relevant members of the GRT and MECP technical reviewers. I would ask that once the materials have been distributed, that you please send me an e-mail confirming this; and, that the e-mail include a list that identifies each member of the GRT and each MECP technical reviewer to whom the materials were sent.		Terrapure provided the Project Officer with email updates with the details of materials distributed.																						
14-Dec-2017	Email	The Ministry of Indigenous Relations and Reconciliation (MIRR) has replaced the Ministry of Aboriginal Affairs. As part of this change, the role of MIRR has changed with respect to the EA process. In particular, the MECP now provides advice and guidance to proponents about those Indigenous communities that are to be consulted, and the requirements Indigenous consultation.		Thank you for letting us know about the change in the MIRR's role in the EA process. Based on this change we will remove the MIRR from the Project Contact List.	18-Dec-2017	Email																				
19-Dec-2017	Email	I understand that as part of the follow-up to the GRT meeting that Terrapure Environmental held on December 8, 2017, the Work Plans, Existing Conditions Reports and the Conceptual Design Report were circulated to members of the GRT for review. Please note that although ministry staff can provide advice and guidance in terms of whether these materials meet or address ministry legislative requirements or expectations, approval or "sign off" of these materials by the ministry cannot take place until the final EA is submitted. Accordingly, ministry staff will, where appropriate, provide an opinion as to whether these materials meet or address the ministry's legislative requirements and expectations. Based on the conclusions of the ministry's review, we can work towards determining whether there is a need to meet. Should you have any questions or concerns, please feel free to contact me at your earliest convenience.		Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies	14-Dec-2017	Email																				
N.A.	N.A.	N.A.		As requested, this email is to confirm that the Conceptual Design Report and certain Work Plans and Existing Condition Reports that reflect agencies' jurisdictional mandate were distributed to the GRT on December 14, 2017. The materials were sent to the following agencies:	14-Dec-2017	Email																				
				<table border="1"> <thead> <tr> <th>Agency</th> <th>Recipients</th> </tr> </thead> <tbody> <tr> <td>Conservation Hamilton</td> <td>Alex Nizharadze Scott Peck</td> </tr> <tr> <td>City of Hamilton</td> <td>Tiffany Singh</td> </tr> <tr> <td>City of Hamilton - Public Health</td> <td>Matthew Lawson Roger Finkenbrink</td> </tr> <tr> <td>MECP</td> <td>Barbara Slattery Natalie Stacey Anthony Martella Husein Awad Michael Spencer Ian Parrott Yousouf Kalogo</td> </tr> <tr> <td>HWDSB</td> <td>Bob Fex Ellen Warling Davis Anderson Jeff Beattie Pat Hudyma Todd White</td> </tr> <tr> <td>HWCDSD</td> <td>Nicole Pereira Patrick Daly Paul DiFrancesco Mary Nardini</td> </tr> <tr> <td>MTCS</td> <td>Dan Minkin</td> </tr> <tr> <td>OMAFRA</td> <td>Jackie Van de Valk</td> </tr> <tr> <td>MCI</td> <td>Chis Stack</td> </tr> </tbody> </table>	Agency	Recipients	Conservation Hamilton	Alex Nizharadze Scott Peck	City of Hamilton	Tiffany Singh	City of Hamilton - Public Health	Matthew Lawson Roger Finkenbrink	MECP	Barbara Slattery Natalie Stacey Anthony Martella Husein Awad Michael Spencer Ian Parrott Yousouf Kalogo	HWDSB	Bob Fex Ellen Warling Davis Anderson Jeff Beattie Pat Hudyma Todd White	HWCDSD	Nicole Pereira Patrick Daly Paul DiFrancesco Mary Nardini	MTCS	Dan Minkin	OMAFRA	Jackie Van de Valk	MCI	Chis Stack		
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Environment and Climate Change Canada	Rob Dobos															
			Please let me know if you have any questions.													
31-Jan-2018	Email	I have reviewed the noise document: "Draft Noise Existing Conditions Report" for the Terrapure Stoney Creek Regional Facility and have no additional noise comments on this file at this time.	N.A.		N.A.	N.A.										
N.A.	N.A.	N.A	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018		08-Mar-2018	Email										
20-Apr-2018	Meeting	<p>SCRF EA Update Meeting</p> <ul style="list-style-type: none"> - Provide an update on where Terrapure is at in the process, outcomes of the last Open House on March 22, 2018. - Reviewed next steps - Reviewed stakeholder engagement/Indigenous consultation - Reviewed timelines for agency review during the Impact Assessment 			20-Apr-2018	Meeting										
18-May-2018	Email	<p>Thank you very much for notifying the Ministry about the availability of the Public Open House #2 Summary Report. The Ministry appreciates being kept abreast about the various consultation and engagement opportunities that form part of the current environmental assessment process; and, their results.</p> <p>Should you have any questions or concerns please feel free to contact me at your earliest convenience.</p>	<p>The Public Open House #2 Summary report is now available on the Project Website (www.terrapurestoneycreek.com) or by clicking here.</p> <p>The report summarizes the Public Open House held as part of the Stoney Creek Regional Facility Environmental Assessment. This was the second of three open houses that will be held during this EA. The Public Open House #2 included an In-Person Open House held on March 22, 2018 and an Online Open House held between March 22 and April 20, 2018.</p> <p>We have started planning the final Public Open House #3. It is currently planned for Tuesday June 19, 2018 as the date. More details to come!</p>		18-May-2018	Email										
24-May-2018	Meeting	Meeting to discuss closure planning.	Meeting to discuss closure planning.		24-May-2018	Meeting										
N.A.	N.A.	N.A	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018		04-Jun-2018	Email & Mailed Letter										
22-Jun-2018	Telephone call	SCRF EA update meeting on the draft Impact Assessment reports	SCRF EA update meeting on the draft Impact Assessment reports		22-Jun-2018	Telephone call										
02-Aug-2018	Telephone call	SCRF EA update meeting on the progress of the draft EA and anticipated availability of the draft EA documentation for review.	SCRF EA update meeting on the progress of the draft EA and anticipated availability of the draft EA documentation for review.		02-Aug-2018	Telephone call										
02-Aug-2018	Email	<p>Please be advised that the submission and review of a draft Environmental Assessment document is not a requirement under the Environmental Assessment Act; however, the Ministry of the Environment, Conservation and Parks encourages proponents to submit a draft document to the Ministry, and any relevant members of the Government Review Team and Aboriginal communities, so that any potential issues of concern can be identified and possibly addressed before an Environmental Assessment is submitted formally.</p> <p>Should a proponent wish to submit a draft Environmental Assessment document to the Ministry of the Environment, Conservation and Parks, it is recommended that the proponent submit a formal request to the Ministry asking that a review of the draft be carried out, and clearly indicate when the proponent anticipates submitting the draft. It is the Ministry's expectation that a minimum of three weeks advance notice be given prior to the submission of a draft Environmental Assessment document, so that Ministry staff can allocate the time and resources needed to carry out the review. Please be advised, that in order to ensure that the Ministry has an adequate amount of time to review the draft Environmental Assessment, it is the Ministry's expectation that a minimum of five to six weeks be provided for the completion of the review.</p>	<p>As discussed yesterday please find attached Terrapure's formal notification of intent to submit the Draft Environmental Assessment Report for the Stoney Creek Regional Facility EA.</p> <p>Please contact me if you have any questions. I look forward to your reply.</p>		03-Aug-2018	Email/Letter										
08-Aug-2018	Telephone call	SCRF EA update on Indigenous consultation.	SCRF EA update on Indigenous consultation.		08-Aug-2018	Telephone call										
08-Aug-2018	Email	Please let us know if you hear anything from HCCC about what this means for EA consultation processes. We will let you know if we hear anything further as well.	We were advised by HCCC that the process remains the same and that we are to address the application to an unnamed Director. Aaron Detlor and Brian Doolittle are still with HDI, Hazel Hill is not. With this in mind, we submitted the development application today to		15-Aug-2018	Email										



				facilitate HDI's involvement in the SCRF EA and are scheduling a meeting for early September.										
09-Aug-2018	Email/Letter	Thank you for your letter of August 3, 2018, on behalf of Terrapure Environmental, requesting that the Ministry of the Environment, Conservation and Parks carry out a review of the draft Environmental Assessment for the proposed expansion of the Stoney Creek Regional Facility. Please find attached the Ministry's response to the request. Should you have any questions or concerns, please feel free to contact me at your earliest convenience.		Thank you for your August 9, 2018 letter regarding our request. Please find attached our confirmation that we will be making the draft Environmental Assessment available on August 31, 2018 for a 7 week review period, ending on October 24, 2018. A hard copy of this letter is being sent to you today. I appreciate your assistance with this matter.	10-Aug-2018	Email/Letter								
13-Aug-2018	Email	Thank you for your submission of the draft notice. The notice was reviewed and was found to include the required information as outlined in the Ministry's Code of Practice: Preparing and Reviewing Environmental Assessments in Ontario. Should you have any questions or concerns, please feel free to contact me at your earliest convenience.		Following up on this letter, please find attached our proposed Notice for release of the Draft Environmental Assessment for your information.	10-Aug-2018	Email								
15-May-2018	Meeting	Meeting to discuss the proposed ECA Amendment for the Terrapure Stoney Creek Regional Facility		Meeting to discuss the proposed ECA Amendment for the Terrapure Stoney Creek Regional Facility	15-May-2018	Meeting								
26-Jul-2018	Email	<p>As previously noted, I've completed the site volume verification for the SCRF using the following information:</p> <ul style="list-style-type: none"> Figure 3 of the 1995 Design and Operations Report was used to generate the surface for the bottom of waste, the contours for the base grading surface in Figure 3 were raised 3 metres to account for the leachate collection layer, and the side walls are sloped at 3(H):1(V); Top of waste contours were generated using Figure 6 of the 1995 D & O report, the final contour elevations were lowered by 1 metre for the final cover; The total site capacity, which is the airspace between the bottom of waste and top of waste contours, was calculated using Autodesk Civil 3D to be 6.46 million cubic metres. <p>In 2013, the ECA was amended to approve the footprint reconfiguration. You indicated that the total waste volume based on the revised base grading plan and final waste contours is approximately 6.4 million cubic metres, which is very close to the site volume as calculated above. As such, upon thorough review of the original site design, as well as the more recent reconfiguration and ECA amendment, the following comments are provided:</p> <ol style="list-style-type: none"> Conditions 10 and 22 of the ECA amendment dated November 22, 2013 states that the landfill Site waste final contours shall not exceed those outlined on Figure 5 of the report "Newalta Stoney Creek Landfill Reconfiguration Supporting Documentation" prepared by AECOM dated August 2013. This is the most recent approval related to final waste contours and was based on the information submitted by Newalta. We found no ground to warrant the change of the final waste contours approved in 2013 as a result of this review; According to the 2013 AECOM report, as a result of the footprint reconfiguration, 1.5 million cubic metres of fill or soil is required to fill the northern portion of the site outside of the reduced waste footprint. This area is more than adequate to accommodate any unsuitable soil on site. 	<p>We have undertaken immediate action to confirm the total waste volume currently in the SCRF and to demonstrate that we are in compliance with the limits outlined in the ECA.</p> <p>An aerial topographic survey will be undertaken at the site the week of August 6th, as soon as weather conditions permit. Following this we will undertake an assessment of the current waste volume based on a comparison of the surveyed surface and the approved final cover contours from the 2013 reconfiguration. We expect to provide an updated assessment to the MECP the week of August 13th. We understand the importance of maintaining confidence in the site and will seek to expedite this process as much as possible.</p> <p>We remain confident that the SCRF continues to operate in compliance with the ECA and that the site has not exceeded the approved capacity. Records indicate that the site has received approximately 100,000 m3 of waste to date in 2018. This is well within the remaining capacity estimates noted in the 2017 AMR and discussed in detail during multiple meetings and other correspondence with MECP staff.</p> <p>We would still like to sit down with MECP staff to understand the rationale behind your recent findings and to outline a plan for actions going forward. We remain available on August 7th as originally proposed and would appreciate the opportunity to discuss this matter further with you.</p>	01-Aug-2018	Email									
N.A.	N.A.	N.A.		<p>In response to your request we have prepared the attached isopach drawing showing a cut/fill analysis between the contours from the 2018 topographical survey and the 2013 approved final waste contours. The table below summarizes our current estimate of the remaining waste capacity:</p> <table border="1"> <tr> <td>Item</td> <td>Volume (m3)</td> </tr> <tr> <td>Cut/Fill Analysis Based on 2018 Topographic Survey and 2013 Approved Final Waste Contours</td> <td>-12,500</td> </tr> <tr> <td>Final Cover</td> <td>84,000</td> </tr> <tr> <td>Topsoil Stockpiles</td> <td>8,500</td> </tr> </table>	Item	Volume (m3)	Cut/Fill Analysis Based on 2018 Topographic Survey and 2013 Approved Final Waste Contours	-12,500	Final Cover	84,000	Topsoil Stockpiles	8,500	01-Aug-2018	Email
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			<p>Pre-Existing Unsuitable Material 180,500</p> <p>Access Ramp/Roads 110,000</p> <p>Estimated Waste Receipts (February - July 2018) -85,000</p> <p>Total Waste Capacity Remaining 285,500</p> <p>Hopefully this addresses your concerns and demonstrates that the site is well with the approved maximum waste capacity. In light of this, we note that there should be no immediate need to conduct an updated topographic survey and request that the MECP consider revoking this requirement in order to prevent undue effort and cost.</p>																
03-Aug-2018	Teleconference	Call to discuss the ECA A181001 Amendment Application regarding the SCRF Capacity	Call to discuss the ECA A181001 Amendment Application regarding the SCRF Capacity	03-Aug-2018	Teleconference														
N/A	N/A	N/A	<p>I wanted to extend our thanks for the conference call this afternoon – it really helped to clear up some of the confusion and get us all on the same page. We certainly agree that full transparency is critical to bring this to matter to resolution. As we understand it, the path forward will generally include the following:</p> <ul style="list-style-type: none"> • MECP will render a decision on the current ECA amendment application, which will only include the proposed waste volume adjustment to 6,500,000 m³ • Pending resolution on the current application, Terrapure will submit a subsequent ECA amendment application to reflect proposed final waste contours that are in alignment with the agreed upon waste capacity <p>As discussed, we will also be completing an aerial survey of the site next week and will provide an updated assessment of the waste volume and remaining capacity relative to the currently approved contours.</p>	03-Aug-2018	Email														
2018-Aug-11	Email	<p>Thanks for providing the updated letter to address my comments. As per our conversation, now are in agreement on the total site capacity and the remaining volume. Attached please find attached the draft ECA amendment for this application. Please let us know if you have any comments.</p> <p>We also clarified that the remaining capacity of 180,000 m³ includes 110,000 m³ for ramp/roads, which need to be removed to utilize this volume. In addition, according to the August 7 2018 topographic survey illustrated on Figures 1 and 2, there is a fairly large area in the centre of the landfill, where waste has been placed to 5-6 metres above the 2013 approved final contours. Terrapure shall provide a plan to the ministry and take action to relocate the overfilled waste to the northern area, in order to bring the site back to compliance with the ECA.</p>	<p>As requested by the Ministry of the Environment, Conservation and Parks (MECP), Terrapure has recently undertaken an aerial topographic survey of their Stoney Creek Regional Facility (SCRF) in order to prepare an updated assessment of the remaining waste capacity. The following figures have been attached for reference:</p> <ul style="list-style-type: none"> • Figure 1 – Cut/Fill Assessment • Figure 2 – Aerial Image <p>The aerial survey was conducted on August 7th, 2018 – the aerial image and the contours shown in Figure 2 reflect site conditions at that time. The cut/fill analysis presented in Figure 1 is based on a comparison between the existing contours (from the August 7, 2018 survey) and the current approved final waste contours (as approved during the 2013 reconfiguration). Since the aerial survey only captures surface elevations, manual adjustments are then required to remove non-waste materials from the surveyed surface in order to accurately reflect only the waste volume. A summary of these deductions and the resultant waste capacity remaining are presented in the table below.</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Volume (m3)</th> </tr> </thead> <tbody> <tr> <td>Cut/Fill Analysis Based on August 7, 2018 Topographic Survey and 2013 Approved Final Waste Contours</td> <td>-134,000</td> </tr> <tr> <td>Final Cover</td> <td>84,000</td> </tr> <tr> <td>Topsoil Stockpiles</td> <td>40,000</td> </tr> <tr> <td>Pre-Existing Unsuitable Material¹</td> <td>80,000</td> </tr> <tr> <td>Access Ramp/Roads</td> <td>110,000</td> </tr> <tr> <td>Total Waste Capacity Remaining</td> <td>180,000</td> </tr> </tbody> </table>	Item	Volume (m3)	Cut/Fill Analysis Based on August 7, 2018 Topographic Survey and 2013 Approved Final Waste Contours	-134,000	Final Cover	84,000	Topsoil Stockpiles	40,000	Pre-Existing Unsuitable Material ¹	80,000	Access Ramp/Roads	110,000	Total Waste Capacity Remaining	180,000	10-Sept-2018	Letter
Item	Volume (m3)																		
Cut/Fill Analysis Based on August 7, 2018 Topographic Survey and 2013 Approved Final Waste Contours	-134,000																		
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Pre-Existing Unsuitable Material ¹	80,000																		
Access Ramp/Roads	110,000																		
Total Waste Capacity Remaining	180,000																		



				<p>Notes:</p> <p>1. Total allowance for pre-existing unsuitable material of 180,500 m3, less 100,500 m3 which is already accounted for in the 2013 approved final contour volume of 6,420,000 m3. Based on pending MECP approval of an increase to the total approved capacity to 6,500,000 m3.</p> <p>The remaining waste capacity at the SCRF as of August 7, 2018 was estimated to be 180,000 m3. Based on a comparison of the survey surfaces between January 25 and August 7, 2018, a difference of approximately 118,000 m3 was observed. Accounting for an increase of 31,500 m3 in the topsoil stockpile volume between the surveys, approximately 86,500 m3 of waste was landfilled during this period.</p> <p>Based on waste receipts between January 25 and August 6, 2018, approximately 146,266 tonnes of waste was landfilled during this period, resulting in a corresponding waste density of approximately 1.7 tonnes/m3. Based on waste receipts between August 7, 2018 and August 31, 2018, approximately 20,407 tonnes of waste was landfilled during this period. Based on the calculated density of 1.7 tonnes/m3, it is estimated that an additional 12,004 m3 of capacity has been consumed in August. As such, it is estimated that the remaining waste capacity of the SCRF as of September 1, 2018 is approximately 167,996 m3.</p> <p>Going forward it is understood that an estimate of the remaining waste capacity (calculated based on tonnage receipts) will be provided to the MECP by the 5th of each month. Aerial topographic surveys will continue to be carried out at least once per year to confirm the actual airspace consumed and reported each year. It is also understood that pending changes to the ECA for the SCRF will necessitate further discussion with the MECP to confirm how these values are calculated.</p>		
2018-Sept-25	Email	<p>Attached is a copy of the Environmental Compliance Approval (ECA) A181008 Notice 14 issued on September 24, 2018 to Revolution Environmental Solutions Acquisition GP Inc., as general partner for and on behalf of Revolution Landfill LP sent by email at 5.00pm. The attached replaces the paper copy of the ECA that was previously sent by mail. If you experience any issues with retrieving the attached ECA, please contact me at 416-314-1564. For additional contact information, please see my signature below.</p> <p>Please reply back to this email within 5 business days confirming you have received the ECA.</p> <p>Thank you,</p>				
2018-Nov-15	Meeting	<p>Meeting to review and discuss the EA submission and review timelines and to discuss the ECA amendments including:</p> <ul style="list-style-type: none"> - Capacity Correction - Waste Contours - Ramp/Road Removal Plan - Materials Management Plan - Phase 8 construction - Capacity Increase - Updated Draft ECA 	<p>Meeting to review and discuss the EA submission and review timelines and to discuss the ECA amendments including:</p> <ul style="list-style-type: none"> - Capacity Correction - Waste Contours - Ramp/Road Removal Plan - Materials Management Plan - Phase 8 construction - Capacity Increase - Updated Draft ECA 	2018-Nov-15	Meeting	
2018-Dec-13	Meeting	<p>Meeting to discuss a proposed administrative amendment to the existing SCRF ECA.</p>	<p>Meeting to discuss a proposed administrative amendment to the existing SCRF ECA.</p>	2018-Dec-13	Meeting	
2018-Nov-07	Email	<p>Thanks again for forwarding the email below to us. We have brought it to the (Acting) Director's attention, so there is no need for you to forward it. We will be responding directly to the Haudenosaunee Development Institute (HDI) as their request is predominantly part of the substantive aspects of consultation that are the Crown's responsibility. Below we offer some background and a proposed path forward.</p> <p>As you may know, the Crown has a duty to consult, and potentially accommodate, when it takes an action or makes a decision that could impact an established or credibly asserted Aboriginal or treaty right.</p> <p>The proposed project is located in the area covered by the Nanfan Treaty of 1701. It is Ontario's view that the Nanfan Treaty provides for the continuation of hunting and fishing rights by the Six Nations of the Grand River. For the purposes of consultation at the present time, the Six Nations are represented by the Elected Chief and Council and by the Haudenosaunee Confederacy Chiefs Council (HCCC) and/or the HDI.</p>	<p>We understand that the Director of the Environmental Approvals Branch is to be informed when an Aboriginal community has identified potential impacts to aboriginal or treaty rights (Section 4.1.1. of the Codes of Practice for EAs). On other projects we have been advised to send an email to the Director at EAASIBGen@ontario.ca with the subject line "Potential Duty to Consult". With this in mind, we'd like to request that the Director be notified. Please advise if you would like us to send the email or if you will notify the Director, copying Blair and myself.</p>	2018-Oct-31	Email	



			<p>Because the final environmental assessment has not been reviewed by this ministry, we are not yet in a position to comment on the extent to which accommodation may be required for any infringement on an Aboriginal or treaty right. However, it seems unlikely at this time that the undertaking proposed would impact Aboriginal or treaty rights, such as the ability to hunt or fish. Nonetheless, we must wait for the conclusion of the environmental assessment process to make this determination.</p> <p>As stated, we will be contacting the HDI to further understand the issues raised (below). In the meantime, we encourage you to continue consulting with the Six Nations of the Grand River, as represented by both the Elected Chief and Council and HCCC/HDI, on the environmental assessment, including the site tour as requested below.</p>			
Ministry of Tourism, Culture, and Sport (MTCS)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	8-Dec-2017	GRT Meeting	MTCS participated in the GRT Meeting #1 Webinar	Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.	8-Dec-2018	GRT Meeting
	15-Dec-2017	Email	Thank you for forwarding these materials. Unfortunately I won't be around at all between January 4 and 12. I would be available for a call the week of January 15th, if you'd like. If that's too late for your schedule I can find some time next week.	Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies	14-Dec-2017	Email
	17-Jan-2018	Teleconference	<p>Discussion on the MTCS mandate for this project and reference to the existing documentation provided by the Ministry of Culture, Tourism and Recreation (now known as MTCS) in 1994 with regarding no concerns with landfill proposal from a cultural heritage perspective due to the fact that there was low potential for impacting cultural heritage given the Site is an exhausted quarry pit.</p> <p>This was agreed upon but the MTCS questioned the alternatives that go beyond the original approved footprint that we have put forward for analysis – do any of the proposed alternatives go beyond the licensed quarry area/ previously disturbed lands by quarry operations. While it would still be a low archaeological potential, having this information would be helpful in addressing the MTCS mandate on this undertaking.</p> <p>MTCS agreed with this approach and asked that GHD ensure consideration of the adjacent properties when completing the cultural heritage screening in terms of potential sites and impacts from a visual perspective (i.e. height increase for some options).</p>	Terrapure proposed and committed to send copies of the Archaeological and Cultural Heritage screenings to MTCS with supporting documentation (i.e. extent of quarrying operations/ license, etc.) for their review and schedule a follow-up call after reviewing the information.	17-Jan-2018	Teleconference
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
	N.A.	N.A.	N.A.	<p>We wanted to provide you an update on the Terrapure SCRF EA project and would appreciate your review/comment on some items.</p> <p>For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic analysis is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option and the technical team will then begin a detailed impact assessment of the preferred Option (Option 5).</p> <p>I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. Within the report, Section 5.10 describes and summarizes the analysis of each Option from an Archeology and Built Heritage perspective. Due to the fact that Option 5 is essentially going back to the Original approved footprint, which was an excavated quarry pit (See attached Quarry Permit License) it was determined that there will be no effects to any archeologically significant resources. In addition, as identified in the attached memo on Designated Cultural Heritage Buildings/Sites, there is only one building (Billy Green House) within the local study area that is a designated cultural heritage building but will not be disrupted or displaced by the expanding footprint/slight height increase. I have also attached the Screening Checklists for your review.</p>	27-Mar-2018	Email



				Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so. In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/		
	27-Apr-2018	Email	Thank you for the opportunity to review the alternative methods evaluation report. Given that none of the alternatives carry likely impacts to cultural heritage resources, I have no concerns.	Thank you for the email. We appreciate your engagement in this process and taking the time to review the document. We will continue to provide you applicable documents and keep you informed of any project updates.	24-May-2018	Letter
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
	N.A.	N.A.	N.A.	I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below: Draft Detailed Impact Assessment Reports for the Preferred Option Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report If you have comments on any of the reports listed above in this email, please provide by Friday July 20th 2018. Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.	25-Jun-2018	Email
	N.A.	N.A.	N.A.	I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports). As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018.</u> Thank you for your interest and engagement in this project.	18-Jul-2018	Email
Ministry of Transportation (MTO)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	N.A.	N.A.	N.A.	Sorry you were not able to participate in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Transportation Work Plan and the Draft Traffic Existing Condition Report and the Draft Conceptual Design Report for your review. The Work Plan attached reflects your Agency's jurisdictional mandate. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used. Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you. Please let me know if you have any questions.	14-Dec-2017	Email
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
	N.A.	N.A.	N.A.	I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest report for review. For the last several months our Technical team has	29-Mar-2018	Email



				<p>been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the preferred Option (Option 5).</p> <p>I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018.</p> <p>In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>		
	N.A.	N.A.	N.A.	<p>A few weeks ago I sent the email below providing you a summary and update on the Stoney Creek Regional Facility Environmental Assessment (SCRF EA) and the most recent report (Alternative Methods Report) available for comment/feedback.</p> <p>If you have comments on the attached report please provide them to me by this Friday April 27th 2018.</p> <p>Thank you for your interest and engagement in this project and if you have any questions please let me know.</p>	23-Apr-2018	Email
	N.A.	N.A.	N.A.	<p>Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018</p>	04-Jun-2018	Email & Mailed Letter
	N.A.	N.A.	N.A.	<p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below:</p> <ul style="list-style-type: none"> Draft Detailed Impact Assessment Reports for the Preferred Option Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report <p>We would appreciate your comment and review by Friday July 20th 2018.</p> <p>Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>	25-Jun-2018	Email
	N.A.	N.A.	N.A.	<p>I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports).</p> <p>As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018</u>.</p> <p>Thank you for your interest and engagement in this project.</p>	18-Jul-2018	Email
Ontario of Agriculture, Food and Rural Affairs (OMAFRA)	N.A.	N.A.	N.A.	<p>Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment</p>	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	<p>Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017</p>	28-Nov-2017	Email
	8-Dec-2018	GRT Meeting	OMAFRA participated in the GRT Meeting #1 Webinar	<p>Terrapure hosted the GRT Meeting #1. The purpose of the meeting was to provide agencies with an overview of the project, discuss the role of review agencies, discuss the approval of the Amended Terms of Reference, recap the Public Open House #1, and the next steps for the project.</p>	8-Dec-2018	GRT Meeting



N.A.	N.A.	N.A.	<p>Good Afternoon,</p> <p>In mid-December you received an email from my colleague as a follow up to a meeting you attended for the Terrapure Stoney Creek Regional Facility Environmental Assessment on December 8th, 2017. The email included several reports for your review including; Land Use & Economic Work Plan and Draft Existing Condition Report and the Draft Conceptual Design Report.</p> <p>If you have any comments or questions on these reports please provide by Wednesday January 31st, 2018. If you would like to schedule a meeting or phone call to discuss, please respond back and we can have this set up.</p> <p>Alternatively, if you would like to be removed from the project contact/distribution list please let me know.</p> <p>The Work Plan attached reflects OMAFRA's jurisdictional mandate. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used.</p>	14-Dec-2017	Email
01-Feb-2018	Teleconference	<p>Discussion regarding the Agriculture section in the Land Use Report including:</p> <p>Land use report did not mention or list agricultural lands or farms in LSA Would like to see list of farms and farm operations within the LSA Need to address other factors such as; how would surface water be affected and how will this affect agriculture, how will transportation affect agriculture? Table 4.1 in CDR – What criteria/indicators will be used to assess agriculture, how will business/economics be assessed? Do not clump agriculture in with other businesses, ensure you look at agricultural businesses separate than commercial for example. Better organization of reports on website would be appreciated, organize so you can see what phase of the EA process you are in, possibly provide dates within title of report.</p>	<p>Terrapure let OMAFRA know that these factors will be assessed as part of alternative methods evaluation</p> <p>The criteria and indicators will be used (as listed in ToR).</p>	01-Feb-2018	Teleconference
N.A.	N.A.	N.A.	<p>Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018</p>	08-Mar-2018	Email
23-Mar-2018	GRT Meeting	<p>OMFRA participated in the teleconference and provided additional comments following reviewing the Draft Alternative Methods Report.</p>	<p>Terrapure provided the details for the results of the comparative evaluation on the Alternative Methods as well as the details for the Public Open House on March 22, 2018.</p>	23-Mar-2018	GRT Meeting
N.A.	N.A.	N.A.	<p>Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018</p>	04-Jun-2018	Email & Mailed Letter
20-Jun-2018	GRT Meeting	<p>OMAFRA participated in the GRT Meeting #3</p>	<p>Terrapure provided an update regarding the SCRF EA Detailed Impact Assessment and an overview of the Public Open House #3</p>	20-Jun-2018	GRT Meeting
N.A.	N.A.	N.A.	<p>Good Afternoon,</p> <p>I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below:</p> <p>Draft Detailed Impact Assessment Reports for the Preferred Option</p> <ul style="list-style-type: none"> Air Quality and Odour Geology and Hydrogeology Land Use and Economic Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report <p>We would appreciate your comment and review by Friday July 20th 2018.</p>	25-Jun-2018	Email



				Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.		
	N.A.	N.A.	N.A.	I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports). As a friendly reminder we are looking for any feedback and comments to be sent by no later than this Friday July 20 th , 2018. Thank you for your interest and engagement in this project.	18-Jul-2018	Email
Ontario Provincial Police (OPP)	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	20-Nov-2017	Email & Mailed Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 on December 7, 2017 and invitation to GRT Meeting #1 on December 8, 2017	28-Nov-2017	Email
	N.A.	N.A.	N.A.	Good morning, Sorry you were not able to participate in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Transportation Work Plan and the Draft Traffic Existing Condition Report and the Draft Conceptual Design Report for your review. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used. Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you. Please let me know if you have any questions.	14-Dec-2017	Email
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #2 on March 22, 2018 and a GRT specific webinar on March 23, 2018	08-Mar-2018	Email
	N.A.	N.A.	N.A.	Good Morning, I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest report for review. For the last several months our Technical team has been assessing the expansion options (6 total) and Terrapure recently hosted a public open house (March 22, 2018) to present the technical assessment of the alternative options and to let the public know that the most preferred option from a technical, environmental, social and economic perspective is Option #5. Over the next several weeks Terrapure will be receiving feedback on the selected option from the public and the technical review team and will then begin a detailed impact assessment of the preferred Option (Option 5). I have attached the Draft Alternative Methods Report for your review and comment. This report provides a description of each of the potential expansion Options and also summarizes the technical/environmental analysis of each of the Options. Detailed analysis supporting the results can be found in Appendix B of the report. We would appreciate your review and comments by April 27th, 2018. In addition if you would like to view any additional materials/reports please go to the project website here: http://www.terrapurestoneycreek.com/document-library/ Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.	02-Mar-2018	Email
	N.A.	N.A.	N.A.	Terrapure provided an email to the GRT with an invitation to the SCRF EA Public Open House #3 on June 19, 2018 and a GRT specific webinar on June 20, 2018	04-Jun-2018	Email & Mailed Letter
	N.A.	N.A.	N.A.	I wanted to touch base to provide you an update on the Terrapure SCRF EA project and to provide you the latest reports for review. For the last several months our Technical team has been completing a detailed impact assessment of the preferred Option #5 (Reconfiguration and Height Increase) and outlining the proposed Impact Management Measures and monitoring plans. Over the next several weeks Terrapure will be receiving feedback on the detailed impact assessment and proposed Impact Management Measures from the public and the government review team and will then begin to draft the Environmental Assessment Report. Several reports have been completed (located on Project Website here: http://www.terrapurestoneycreek.com/document-library/) or can be found through direct links below: Draft Detailed Impact Assessment Reports for the Preferred Option Air Quality and Odour Geology and Hydrogeology Land Use and Economic	25-Jun-2018	Email



				<p>Terrestrial and Aquatic Environment Noise Surface Water Traffic Design & Operations Facility Characteristics Report</p> <p>We would appreciate your comment and review by Friday July 20th 2018. Thank you very much for taking the time to engage with us on the project and please let me know if you have questions or comments on anything I have provided. If you would like to schedule a meeting/phone call to discuss we would be happy to do so.</p>		
	N.A.	N.A.	N.A.	<p>I am contacting you because you received the email below a few weeks ago providing an update on the <i>Stoney Creek Regional Facility Environmental Assessment (EA)</i> and links to the most recent reports available for review (Detailed Impact Assessment Reports). As a friendly reminder we are looking for any feedback and comments to be sent by no later than <u>this Friday July 20th, 2018</u>. Thank you for your interest and engagement in this project.</p>	18-Jul-2018	Email
Environment and Climate Change Canada	N.A.	N.A.	N.A.	<p>Terrapure provided an email with electronic links to the Conceptual Design, Work Plans and Existing Conditions Reports to review agencies</p>	14-Dec-2017	Email
	18-Dec-2017	Email	<p>As indicated in our response to Gavin Battarino of the Ontario Ministry of Environment & Climate Change (on February 8, 2017) regarding the Terms of Reference for the Terrapure Stoney Creek Regional Facility, Environment & Climate Change Canada will not be participating in this provincial environmental assessment review.</p>	<p>Thank you confirming that Environment & Climate Change Canada will not be participating in the provincial environmental assessment review for the Terrapure Stoney Creek Regional Facility. We will remove you from the Project Contact List.=</p>	21-Dec-2017	Email
Ministry of Economic Development and Growth	N.A.	N.A.	N.A.	<p>Sorry you were not able to participate in the GRT meeting on December 8, 2017. As a follow up from this meeting please see attached the Land Use & Economic Work Plan and Draft Existing Condition Report and the Draft Conceptual Design Report for your review. The Work Plan attached reflects the Agency's jurisdictional mandate. If you would like to review other Work Plans or reports, we would be happy to send them to you or you can view them on the Project website here. The Work Plan attached was previously circulated to you during the Terms of Reference process and is the final version that was included as part of the Amended Approved Terms of Reference. We are passing on this work plan as a reminder of the proposed methodology of the assessment and the criteria and indicators that will be used. Once you have reviewed the attached material we would like to set up a meeting with you either in-person or by conference call. Please advise on a date between January 4 and January 12, 2017 that works best for you. Please let me know if you have any questions.</p>	14-Dec-2017	Email
	14-Dec-2017	Email	<p>Thank you for sharing information on the Terrapure Stoney Creek Regional Facility Environmental Assessment and for the invitation to December 8, 2017 meeting. As a general practice, the Ministry of Economic Development and Growth provides comments only on those proposals that have a significant regional or province wide supply chain economic development and/or employment impact. Examples include a major mineral development, energy infrastructure or manufacturing investment, or other proposals where business stakeholders have come forward to the Ministry and expressed a strong interest. Beyond this scope, the Ministry lacks the technical expertise to comment on Environmental Assessments in detailed fashion. If you would still like to discuss, my schedule is currently open January 4, 5, 8 and 9.</p>	<p>Thank you for your email indicating that this project is not within the scope that the Ministry of Economic Development and Growth usually provides comments. Can you please confirm if we can remove the Ministry of Economic Development and Growth from the Project Contact List.</p>	21-Dec-2017	Email
	27-Dec-2017	Email	<p>It would be appropriate to remove MEDG from the contact list.</p>	N.A.	N.A.	N.A.

7.5 Indigenous Communities

7.5.1 Indigenous Communities Consulted

Indigenous communities identified during the ToR for continued consultation during the preparation EA include:

- Haudenosaunee Development Institute on behalf of Haudenosaunee Confederacy Chiefs Council
- Métis Nation of Ontario
- Mississaugas of the New Credit First Nation
- Six Nations of the Grand River First Nation

The preceding Indigenous communities were identified for consultation during the ToR. As described in Section 9.1.1 in the Minister-approved ToR (Vol 1. - Appendix C) these Indigenous communities were identified following a review of the following:

- Aboriginal and Treaty Rights Information System (ATRIS)
- Previous Environmental Assessments conducted by Terrapure
- Previous Environmental Assessments carried out in the vicinity of the SCRF

In addition, as described in Section 9.1.1 in the Minister-approved ToR (Vol 1. - Appendix C), on June 21, 2016, MECP identified the Mississaugas of the New Credit First Nation, Six Nations of the Grand River, and Haudenosaunee Confederacy Council as potentially interested in the project/activity.

The following **Table 7.4** provides a description for why each Indigenous community identified was engaged as part of the EA process, including the Indigenous rights, asserted rights or interests that prompted the initial engagement with each of the communities identified, and how any potentially affected Indigenous rights, asserted rights or interests were confirmed, considered and addressed during the EA process.

Table 7.4 Indigenous Communities Consulted During the SCRF EA

Indigenous Rights, Asserted Rights or Interests that Prompted Initial Engagement	How Potentially Affected Indigenous Rights, Asserted Rights or Interests were Considered
<p>Haudenosaunee Development Institute (HDI) on behalf of Haudenosaunee Confederacy Chiefs Council (HCCC)</p> <p>During a meeting on November 20, 2018, HDI indicated their interest in the natural environment, including groundwater, terrestrial and aquatic environment, and air and the potential impacts as a result of the Undertaking. In addition, the SCRF is located in the area covered by the Nanfan Treaty of 1701. As communicated by the MECP, "it is Ontario's view that the Nanfan Treaty provides for the continuation of hunting and fishing rights by the Six Nations of the Grand River."² (December 17 2018 letter from Annamaria Cross, included in Vol. 3 - Appendix N)</p>	<p>With respect to effects on the natural environment:</p> <ul style="list-style-type: none"> • No net effect on groundwater quality or quantity are anticipated, since groundwater will continue to be managed and protected by existing environmental controls. • The temporary loss of vegetation and wildlife habitat and disturbance to terrestrial species will be minimized through implementation of the impact management measures. • The temporary loss of on-site aquatic habitat and disturbance to aquatic biota in stormwater infrastructure due to regrading activities will be

² Six Nations' members are represented by both the Elected Chief and Council (Six Nations of the Grand River First Nation) and by the Haudenosaunee Confederacy Chiefs Council



Table 7.4 Indigenous Communities Consulted During the SCRF EA

Indigenous Rights, Asserted Rights or Interests that Prompted Initial Engagement	How Potentially Affected Indigenous Rights, Asserted Rights or Interests were Considered
	<p>minimized through the implementation of the impact management measures.</p> <ul style="list-style-type: none"> The SCRF will meet air quality guidelines set out by the MECP <p>(See Section 6.7)</p> <p>With respect to hunting and fishing rights, since the proposed Undertaking has the same horizontal footprint as the original approved SCRF footprint (1996), there is no change in access to lands that may be used for traditional purposes (See Section 6.1.1).</p> <p>Further, the MECP provided the following assessment on potential impacts to the hunting and fishing rights of the Six Nations' members: "It is the ministry's view at this time that the project is not likely to impact the ability of Six Nations' members to exercise hunting rights in the Nanfan treaty area. The Terrapure Facility is an existing waste disposal site located on private land that has been incompatible with hunting rights and other traditional land use practices for many years."(December 17 2018 letter from Annamaria Cross, included in Vol. 3 - Appendix N).</p>
Métis Nation of Ontario	
<p>The Métis Nation of Ontario did not provide any information to Terrapure during the EA on their rights, asserted rights or interests (see Section 7.5.3).</p> <p>According to the Métis Nation of Ontario, "in Métis traditional harvesting territories, the Crown's duty to consult is triggered when it plans, undertakes or authorizes a policy, project or development that has the potential to affect the rights, interests or way of life of the regional Métis communities that rely on these territories."³</p>	<p>'No' to 'Low' net effects are anticipated across all environmental components considered for the implementation of the Preferred Landfill Footprint. Where there are net effects, a summary of impact management measures is provided (See Section 6.7).</p> <p>In addition, since the proposed Undertaking has the same horizontal footprint as the original approved SCRF footprint of the SCRF (1996), there is no change in access to lands that may be used for traditional purposes. (See Section 6.1.1)</p>
Mississaugas of the New Credit First Nation	
<p>The SCRF is located in the area covered by the Between the Lakes Purchase of 1792 (http://mncfn.ca/treaty3/). During a meeting on February 6, 2018 and subsequent comments on the Draft EA, the Mississaugas of the New Credit First Nation expressed their interest in conserving and preserving water and restoring watersheds, environmental protection, and potential archaeological resources (see Sections 7.5.4 and 7.10.2).</p>	<p>With respect to preserving water and restoring watersheds:</p> <ul style="list-style-type: none"> No net effect on groundwater quality or quantity are anticipated, since groundwater will continue to be managed and protected by existing environmental controls. Low net effects on surface water quality or quantitate are anticipated, since the existing stormwater management pond will be altered as required to treat runoff and stormwater from the pond will not be released to a surface water body until testing determines all discharge parameters have been met. <p>(See Section 6.7).</p>

³ Métis Nation of Ontario. Métis Consultation & Accommodation: A Guide for Government & Industry on Engaging Métis In Ontario. Accessed December, 2018 (http://www.metisnation.org/media/51974/duty_to_consult_guide.pdf)



Table 7.4 Indigenous Communities Consulted During the SCRF EA

Indigenous Rights, Asserted Rights or Interests that Prompted Initial Engagement	How Potentially Affected Indigenous Rights, Asserted Rights or Interests were Considered
	<p>With respect to environmental protection in general, 'No' to 'Low' net effects are anticipated across all environmental components considered for the implementation of the Preferred Landfill Footprint.</p> <p>With respect to archaeological resources, no net effects anticipated from an archaeological perspective since the proposed Undertaking occurs within previously excavated lands (See Section 6.7).</p>
Six Nations of the Grand River First Nation	
<p>During a meeting on April 6, 2018, the Six Nations of the Grand River indicated their interest in groundwater protection, the types of material accepted, and the closure plan (see Section 7.5.5).</p> <p>As noted above, the SCRF is located in the area covered by the Nanfan Treaty of 1701, which provides for the continuation of hunting and fishing rights by the Six Nations of the Grand River.</p>	<p>With respect to groundwater, no net effect on groundwater quality or quantity are anticipated, since groundwater will continue to be managed and protected by existing environmental controls (see Section 6.7).</p> <p>With respect to material accepted, the SCRF is only permitted to receive non-hazardous, residual materials (see Section 6.1.1).</p> <p>With respect to closure, the EA has reviewed the potential effects from a construction, operation, closure/post-closure planning perspective (see Section 6.6).</p> <p>With respect to hunting and fishing rights, since the proposed Undertaking has the same horizontal footprint as the original approved SCRF footprint (1996), there is no change in access to lands that may be used for traditional purposes (See Section 6.1.1).</p>

Recognizing that the Haudenosaunee Confederacy Chiefs Council, the Métis Nation of Ontario, the Mississaugas of the New Credit First Nation, and the Six Nations of the Grand River First Nation are separate communities with distinct interests, consultation was undertaken with each community individually. Input from each community was obtained through individual meetings, telephone calls, and written and email correspondence.

From the consultation activities carried out by Terrapure with Indigenous communities during the preparation of the SCRF EA, Terrapure considered comments received and attempted in good faith to resolve the raised issues so that both Terrapure and the Indigenous Community member had an agreeable resolution during the SCRF EA.

The following subsections describe how consultation was undertaken with each community, what, if any, comments were received, and how those comments were considered by Terrapure.

7.5.2 Haudenosaunee Development Institute

During the ToR, the Haudenosaunee Confederacy Chiefs Council confirmed by phone in January 2017 that all correspondence should be directed to the Haudenosaunee Development Institute (HDI).

With that direction in mind, Terrapure provided the Notice of EA Commencement to HDI on November 17, 2017, by email and registered letter. On November 24, 2017, Terrapure sent the Notice of the SCRF EA Public Open House #1 by email. That email also included an invitation for an in-person meeting at the convenience of HDI.

In response to that request, GHD, on behalf of Terrapure, met with HDI on March 8, 2018. The purpose of the meeting was for GHD to provide an introduction to the project, and for HDI to provide information on how they review these types of projects. HDI indicated that if they had an interest in this project, they would provide Terrapure with a development application. Once the application is submitted HDI would then review the project. HDI indicated that they could not review any project information until the application is received.



Terrapure provided the Notices of Open House #2 and Open House #3 to HDI on March 8, 2018, and June 5, 2018, respectively.

Following the March 8, 2018 meeting, Terrapure indicated by email that they would be interested in completing the development application to allow HDI to review the project. On August 15, 2018, Terrapure submitted a completed development application to HDI. Until submission of the Draft EA, HDI did not provide comments on the Project. Consultation with HDI on the SCRF Draft EA is described in **Section 7.10.2**.

Table 7.5 describes the email, letter and telephone correspondence with HDI. This table is organized by Indigenous community in accordance with Section 4.3.7 of the Ministry of the Environment's Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014). All correspondence and engagement with HDI from the Notice of EA Commencement to the availability of the SCRF Draft EA for review can be found in **Vol.3 – Appendix C**.

7.5.3 Métis Nation of Ontario

During the ToR, the Métis Nation of Ontario (MNO) indicated that they had no comments on the draft ToR, but requested to be kept informed on forthcoming reports and commenting opportunities during the EA.

With that direction in mind, Terrapure provided the Notice of Commencement to MNO on November 17, 2017 by email and registered letter. On November 24, 2017, Terrapure sent the Notice of the SCRF EA Public Open House #1 by email, which was followed up by a voicemail message on November 30, 2017. That email and voicemail message also included an invitation for an in-person meeting at the convenience of MNO.

Since no response to the above notifications were received, on January 30, 2018, Terrapure provided a project update by email, which included an invitation to review and provide comments on the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report. This was followed up by a phone call on February 25, 2018, at which point MNO advised that they will not be reviewing the documents provided, but would like to continue to be kept informed.

Terrapure provided the Notice of Open House #2 on March 8, 2018, by email and registered letter. Since no response to this letter was received, on May 9, 2018, Terrapure provided a project update by email, which included an invitation to review and provide comments on the Draft Alternative Methods Report. While MNO confirmed by phone on May 30, 2018, that they received the email, they did not indicate whether they were interested in reviewing the document.

Terrapure provided the Notice of Open House #3 on June 5, 2018, by email and registered letter. Since no response to this letter was received, on June 29, 2018, Terrapure provided a project update by email, which included an invitation to review the draft Impact Assessment Reports and Facility Characteristics Report. This was followed up by a phone call on July 13, 2018, where MNO confirmed they received the email and would follow-up.

MNO did not provide any comments for consideration in the SCRF EA. Consultation with MNO on the SCRF Draft EA is described in **Section 7.10.2**.

Table 7.5 describes the email, letter and telephone correspondence with MNO. This table is organized by Indigenous community in accordance with Section 4.3.7 of the Ministry of the Environment's Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014). All correspondence and engagement with MNO from the Notice of EA Commencement to the availability of the SCRF Draft EA for review can be found in **Vol.3 – Appendix D**.

7.5.4 Mississaugas of the New Credit First Nation

During the ToR, the Mississaugas of the New Credit First Nation (MNCFN) indicated that they wanted Terrapure to follow the Nation's best practices for consultation which includes:

- Engage early in the planning process, before decisions are made.
- Provide information in meaningful and understandable formats.
- Convey willingness to transparently describe the project and consider any MNCFN concerns.
- Recognize the significance of cultural activities and traditional practices of the MNCFN.
- Demonstrate a respect for MNCFN knowledge and uses of land and resources.
- Understand the importance of youth and elders in First Nation communities.
- Act with honour, openness, transparency and respect.
- Be prepared to listen and allow time for meaningful discussion.

With that direction in mind, Terrapure provided the Notice of Commencement to MNCFN on November 17, 2017, by email and registered letter. On November 24, 2017, Terrapure sent the Notice of the SCRF EA Public Open House #1 by email, which was followed up by a voicemail message on November 30, 2017. That email also included an invitation for an in-person meeting at the convenience of MNCFN.

In response to these notifications, MNCFN requested a meeting with Terrapure, which was held on February 6, 2018. Prior to this meeting, Terrapure provided the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report and invited the MNCFN to review and provide comments on those reports. At the meeting, MNCFN gave a presentation on the history of their people and Terrapure gave a presentation on the project and answered questions about the SCRF and Project, including:

- Where does the SCRF receive waste from?
- What was the feedback from the community at the Public Open House #1?
- What was the condition of approval of the ToR?
- Is rehabilitation part of the Environmental Assessment?
- When was the west landfill closed?

MNCFN indicated they would review the documents previously emailed and follow-up if they had any questions or comments. A summary of this meeting is included in **Vol 3. - Appendix E**. Following the meeting, Terrapure did not receive any comments from MNCFN on the documents provided.

Terrapure provided an update on the SCRF EA, as well as an invitation to the Public Open House #2 on March 22, 2018. Following this, Terrapure gave a project update by phone and email on April 11, 2018. This included an invitation to review the draft Impact Assessment Reports and Facility Characteristics Report. Emails were exchanged between Terrapure and MNCFN between April 11, and April 17, 2018.

Within that email exchange, it was agreed to have a conference call/Webex to present the impact assessment reports, once they were available in draft. As well, in response to a request from the MNCFN, Terrapure committed to invite MNCFN Field Liaison Representatives to participate in any future field surveys to be undertaken during the EA, and discuss involvement in post-EA monitoring activities once those monitoring requirements are established. No additional field surveys were undertaken during the EA.

Terrapure provided the Notice of Open House #3 on June 5, 2018, by email and registered letter. Following up on the earlier committed to setup a conference call to discuss the results of the impact assessment, Terrapure sent an email to MNCFN on June 29, 2018, to setup that conference call, which was followed up by a voicemail. That email also included links to the Impact Assessment



Reports and Facility Characteristics Report. In August 2018, the MNCFN confirmed by phone and email that there were no immediate concerns and to continue to provide them with updates on the project as the EA process continues.

Consultation with MNCFN on the SCRF Draft EA is described in **Section 7.10.2**.

Table 7.5 describes the comments received from MNCFN through correspondence (written and electronic), telephone calls, and meetings and how they were considered by Terrapure, as well as all email, letter and telephone correspondence with MNCFN. This table is organized by Indigenous community in accordance with Section 4.3.7 of the Ministry of the Environment's Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014). All correspondence and engagement with MNCFN from the Notice of EA Commencement to the availability of the SCRF Draft EA for review can be found in **Vol.3 – Appendix E**.

7.5.5 Six Nations of the Grand River First Nation

Terrapure provided the Notice of EA Commencement to Six Nations of the Grand River First Nation (Six Nations) on November 17, 2017, by email and registered letter. On November 24, 2017, Terrapure sent the Notice of the SCRF EA Public Open House #1 by email, which was followed up by a voicemail message on November 30, 2017. That email and voicemail message also included an invitation for an in-person meeting at the convenience of Six Nations.

Since no response to the above notifications were received, on January 30, 2018, Terrapure provided a project update by email, which included an invitation to review and provide comments on the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report. This was followed up by a voicemail on February 26, 2018. In response Six Nations responded to setup a meeting, which was held on April 6, 2018.

Prior to that meeting Terrapure provided the Notice of Open House #2 on March 8, 2018, by email and registered letter.

At the April 6, 2018 meeting, Six Nations provided information on the history of their people and their interest in the SCRF EA. Terrapure presented information on the SCRF EA, the proposed capacity increase, the alternatives and how they were evaluated to inform the recommended alternative.

At this meeting, Six Nations indicated their interest in groundwater, wetland recreation, and closure plan and their potential impacts as a result of the Undertaking. The impact assessment was not complete at this time; however, Terrapure did provide these details when it was available in June 2018 to indicate the impact assessment reviewed the potential effects from a construction, operation, closure/post-closure planning perspective and that there will be no net environmental effects from the Preferred Landfill Footprint on the geologic or hydrogeologic conditions. As an outcome of the meeting, Terrapure committed to continue to engage and provide updates as the EA continued to move forward.

On May 9, 2018, Terrapure provided a project update by email, which included an invitation to review and provide comments on the Draft Alternative Methods Report, Draft Existing Conditions Report, and Draft Conceptual Design Report. No response to this email was received.

Terrapure provided the Notice of Open House #3 on June 5, 2018, by email and registered letter. Since no response to this letter was received, on June 29 2018, Terrapure provided a project update by email, which included an invitation to review the draft Impact Assessment Reports and Facility Characteristics Report. No comments were received on the draft Impact Assessment Reports.

Consultation with Six Nations on the SCRF Draft EA is described in **Section 7.10.2**.

Table 7.5 describes the email, letter and telephone correspondence with Six Nations. This table is organized by Indigenous community in accordance with Section 4.3.7 of the Ministry of the Environment's Code of Practice for Preparing and Reviewing Environmental Assessments in



Ontario (January 2014). All correspondence and engagement with Six Nations from the Notice of EA Commencement to the availability of the SCRF Draft EA can be found in **Vol.3 – Appendix F**.

7.5.6 Consideration of Comments Received and Issues Raised

Table 7.5 describes the email, letter and telephone correspondence with Haudenosaunee Confederacy Chiefs Council, the Métis Nation of Ontario, the Mississaugas of the New Credit First Nation, and the Six Nations of the Grand River First Nation. This table is organized by Indigenous community in accordance with Section 4.3.7 of the Ministry of the Environment’s Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014).



Table 7.5 Indigenous Community Comments and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method	
Haudenosaunee Confederacy Chiefs' Council and Haudenosaunee Development Institute	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	17-Nov-2017	Email & Registered Mail Letter	
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 and an invitation for an in-person meeting at the convenience of the Indigenous community.	24-Nov-2017	Email	
	N.A.	N.A.	N.A.	Terrapure made follow up telephone calls and left voicemail to Indigenous Communities with information regarding the Notice of Commencement and Public Open House #1	30-Nov-2017	Voicemail	
	N.A.	N.A.	N.A.	Thank you for taking the time to speak with me yesterday. In our conversation you indicated that you are interested in setting up a meeting at your offices to further discuss the Terrapure Stoney Creek Regional Facility Environmental Assessment. As requested, please see Blair Shoniker's contact information below for you to set up a meeting.	01-Dec-2017	Email	
	01-Mar-2018	Email	Sorry for the delay in responding. March 2nd is not a good date for the HDI. Next week the 7th or 8th looks good. And I need to confirm this is just a discussion not consultation and did you have an agenda you wanted to propose? Let me know	The 8th would be good. It is a discussion not a consultation meeting. I would like to present material regarding the proposal for the Site. The purpose of the meeting is to determine if there is a need for engagement, and if you determine that there is a need--then we can have that discussion on how we engage for consultation purposes. I will bring a person with me that is well aware from a technical perspective of the project to make the presentation	01-Mar-2018	Email	
	8-Mar-2018	Meeting	The meeting purpose was information gathering and provided Terrapure an opportunity to meet with, introduce themselves and learn from HDI. HDI provided an overview of their process including three components: assessment, monitoring of operations, and land.	The meeting purpose was information gathering and provided Terrapure an opportunity to meet with, introduce themselves and learn from HDI. Terrapure provided background information about the Terrapure Site, the purpose of the SCRF EA and the consultation activities to date. Terrapure clarified what materials are accepted at the SCRF and what health studies have been completed.	8-Mar-2018	Meeting	
	N.A.	N.A.	N.A.	Terrapure provided an update on the SCRF EA as well as an invitation to the Public Open House #2 on March 22, 2018 where Terrapure will present the recommended option for the capacity increase based on technical feasibility, potential environmental impacts and input received from the public, agencies, and Indigenous groups.	8-Mar-2018	Email & Registered Mail	
	25-Apr-2018	Email	We were sidetracked a bit. Back on things this week. We will prepare the letter to Terrapure.	Just wondering if a letter has been prepared instructing Terrapure in regard to the process of engaging with HDI. Terrapure is prepared to enter into application process, and would like to understand the cost and schedule requirements. They do understand that HDI will not review documents before they enter into the application process. For your information to check up on Terrapure, there documents are available in their document Library http://www.terrapurestoneycreek.com/document-library . The following links are to the existing reports in the library. Draft Alternative Methods Reports Existing Conditions Reports * Air, Odour and Meteorology * Geology and Hydrogeology * Land Use and Economic Environment * Natural Environment * Noise * Surface Water * Traffic Draft Conceptual Design Report	25-Apr-2018	Email	
	N.A.	N.A.	N.A.	Any movement on dealing with the Terrapure proposal regarding the Site at Stoney Plain. Perhaps we should go take a look at the Site to get a better understanding of what is being developed there.	23-May-2018	Email	
	30-May-2018	Email	Good morning: Please see attachment. (HDI Engagement Package.PDF)	N.A.	N.A.	N.A.	N.A.
	N.A.	N.A.	N.A.	Terrapure provide an update on the SCRF EA as well as an invitation to the Public Open House #3 on June 19, 2018 where Terrapure will present the detailed impact assessment for the preferred option for capacity increase to the community.	5-Jun-2018	Email & Registered Mail	
	N.A.	N.A.	N.A.	Last time we spoke, it was in regard to the letter and map that was forwarded. The map that was sent of the Haldimand Tract and did not include the location of the Terrapure Site Stoney Creek. You were going to send over the proper location map, The Mitchel map?, which is not specific to the tract. Perhaps we can have a short discussion in the next couple of days.	03-Jul-2018	Email	
	06-Jul-2018	Telephone Call	Sending a better map outlining the Treaty areas of the Haudenosaunee.	RE: updating HDI Engagement Package map	06-Jul-2018	Telephone Call	
	08-Aug-2018	Telephone Call	Regarding the dissolution of the HDI Board. The process remains intact, the names will be changing.	Following confirmation of the appropriate process, Terrapure submitted the application to HDI to facilitate their participation in the EA	08-Aug-2018	Telephone Call	



Table 7.5 Indigenous Community Comments and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
Métis Nation of Ontario	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	17-Nov-2017	Email & Registered Mail Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 and an invitation for an in-person meeting at the convenience of the Indigenous community.	24-Nov-2017	Email
	N.A.	N.A.	N.A.	Terrapure made follow up telephone calls and left voicemail to Indigenous Communities with information regarding the Notice of Commencement and Public Open House #1	30-Nov-2017	Voicemail
	N.A.	N.A.	N.A.	Following up on our email below, I am writing to give you an update on the Terrapure Stoney Creek Regional Facility Environmental Assessment. As mentioned in our previous correspondence, we would be pleased to meet with the Métis Nation of Ontario at your office at your convenience to discuss the project, present the information provided at the Open House and bring our technical experts to answer any questions you may have. As part of this stage of the EA, below are links to the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report. As well, I have attached a copy of the MTCS Screening Checklist for Archaeological Potential. We are requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to send you printed or electronic copies directly. Work Plans (See Appendix D, pg 170) Geology and Hydrogeology Work Plan Surface Water Resources Work Plan Terrestrial and Aquatic Environment Work Plan Land Use Work Plan Atmospheric Environment Work Plan (including Air Quality, Odour and Noise) Transportation Work Plan Economic Work Plan Archaeology and Built Heritage Work Plan Design and Operations Work Plan Existing Conditions Reports Air, Odour and Meteorology Geology and Hydrogeology Land Use and Economic Environment Natural Environment Noise Surface Water Traffic Draft Conceptual Design Report For context, the Proposed Work Plans were included in the Amended Approved Terms of Reference. They outline the proposed methodology for the assessment and the criteria and indicators that will be used. The Draft Existing Conditions Reports document the results of site investigations and review of existing data sources. The Draft Conceptual Design Report presents the conceptual design for each of the six options. If you have any questions on the preceding information or would like to set up a meeting please contact me directly by phone at 416-866-2365 or 647-326-4302. Thank you in advance and I look forward to your reply.	30-Jan-2018	Email
	25-Feb-2018	Telephone	Requested to be kept in the loop of the SCRF EA but that the MNO would not be reviewing the Comparative Evaluation or the Archaeology Work Plan for the project but that the MNO would like to continue to be informed about the project	Phoned the MNO to provide an update on the SCRF EA, discuss the MNO's interest in the SCRF EA and to see if there were any questions or concerns about the project at this time. Committed to following up by email and continuing to engage and keep the MNO in the loop as the project progresses	25-Feb-2018	Telephone
	27-Feb-2017	Email	Thank you	Thanks for talking with me earlier this week. Just to confirm our conversation (and for our records), you will not be reviewing the materials below; however if someone from MNO would like to be further involved you will let me know. We will continue to keep you informed as the project progresses.	27-Feb-2018	Email
	N.A.	N.A.	N.A.	Terrapure provided an update on the SCRF EA as well as an invitation to the Public Open House #2 on March 22, 2018 where Terrapure will present the recommended option for the capacity increase based on technical feasibility, potential environmental impacts and input received from the public, agencies, and Indigenous groups. Included in the email was a request to confirm what material the MNO is interested in reviewing, if any.	8-Mar-2018	Email & Registered Mail
	09-May-2019	Email	Email Bounce backs from two MNO employees indicating that they no longer work at MNO and to contact the Chief Operating Officer of the MNO.	I am writing to keep you apprised of progress on this Environmental Assessment as per our earlier discussions. If more efficient to discuss over the phone please feel free to give me a call. Since I last emailed you in late January, we have completed the assessment of the Alternative Methods and identified the recommended option for Terrapure's proposed capacity increase – to reconfigure the Site within its existing property boundaries and increase the height. Currently, our technical experts are further developing the	9-May-2018	Email



Table 7.5 Indigenous Community Comments and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
				<p>landfill expansion design, refining the proposed Impact Management Measures to address any environmental effects, and developing monitoring plans.</p> <p>Below are links to the most recent documentation released and available for comment. If you'd like a quicker primer, I suggest taking a look at the Online Open House:</p> <p>Draft Alternative Methods Report – This report documents the method used to the evaluation the six options for the capacity increase, and the results of the evaluation from the perspective of the various environmental disciplines</p> <p>Air, Odour and Meteorology Existing Conditions Report – Has had minor updates to address comments from review agencies</p> <p>Land Use and Economic Environment Existing Conditions Report – Has had minor updates to address comments from review agencies</p> <p>I am again requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to send you printed or electronic copies directly.</p> <p>Next Steps</p> <p>We are currently in the Impact Assessment stage. We expect that the draft Impact Assessment Reports for each of the seven disciplines will be available in June for review and comment. We expect the Draft Environmental Assessment Report will be available for review and comment in early fall, followed by the Final Environmental Assessment Report.</p> <p>When we submit the Final Environmental Assessment Report to the Ministry of the Environment and Climate Change, both us and the Ministry will ask you for acknowledgment that your community is satisfied that its specific rights and interests have been adequately identified and considered during the Environmental Assessment. With that in mind, can you advise whether your community's rights and interests have been adequately considered up to this point in the EA?</p> <p>As previously discussed, I will continue to send you updates and links to EA documents and information for your review and comment. If you are not interested in reviewing or providing comment on specific documents, just let me know. If you do not have sufficient resources or capacity to participate, please let me know and we will work with you to identify a solution.</p>		
	30-May-2018	Telephone	At the time of the call, the MNO had not reviewed any of the materials provided by email about the SCRF EA. There has been a change in the staff at the MNO. There was interest in continuing to be kept engaged on the project.		30-May-2018	Telephone
	N.A.	N.A.	N.A.	Terrapure provide an update on the SCRF EA as well as an invitation to the Public Open House #3 on June 19, 2018 where Terrapure will present the detailed impact assessment for the preferred option for capacity increase to the community.	5-Jun-2018	Email & Registered Mail
	N.A.	N.A.	N.A.	<p>Following up on our phone call on May 30, I am writing to give you an update on this Environmental Assessment. I know my earlier emails got caught by your junk mail folder so I will give you a call early next week to confirm you received this.</p> <p>For the last several months the technical team has been completing a detailed impact assessment of the preferred option (reconfigure the Site within its existing property boundaries and increase the height), including outlining the proposed Impact Management Measures and monitoring plans. This is documented in several draft impact assessment reports, available for review and comment.</p> <p>Below are links to the most recent documentation that is available for review and comment. The Online Open House also provides a good summary of the information:</p> <ul style="list-style-type: none"> • Draft Impact Assessment Reports: Air Quality and Odour, Geology and Hydrogeology, Land Use and Economic, Terrestrial and Aquatic Environment, Noise, Surface Water, Traffic, Design & Operations • Facility Characteristics Report <p>All documents are always available in the Document Library section of the website.</p> <p>I am requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to send you printed or electronic copies directly. I will continue to send you updates and links to EA documents and information for your review and comment. If you are not interested in reviewing or providing comment on specific documents, just let me know.</p> <p>Next Steps</p> <p>The Draft Environmental Assessment (EA) Report will be available for review and comment from August 24 to September 28 (tentative). The review period for the Final EA Report is tentatively scheduled for January/February 2019. Please let me know if you are interested in reviewing the Draft and Final EA Report and have sufficient resources and capacity to do so; and if you are interested in meeting in-person or via webex when the Draft EA Report is available. If you do not have sufficient resources or capacity to review the Draft or Final EA Report we will work with you to identify a solution.</p>	29-Jun-2018	Email



Table 7.5 Indigenous Community Comments and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
				When we submit the Final Environmental Assessment Report to the Ministry of the Environment and Climate Change, both us and the Ministry will ask you for acknowledgment that your community is satisfied that its specific rights and interests have been adequately identified and considered during the Environmental Assessment. With that in mind, can you advise whether your community's rights and interests have been adequately considered up to this point in the EA?		
	13-Jul-2018	Telephone	Confirmed with MNO that they have received the email with the request to acknowledge the receipt of the SCRF EA documents and the MNO's interest in reviewing. Said would get back to Terrapure once back from vacation.	Followed up with email send on June 29, 2018 with request to confirm what materials the MNO is interested in reviewing.	13-Jul-2018	Telephone
	N.A.	N.A.	N.A.	Terrapure left a voicemail following up on the last email and telephone call regarding the MNO's interest in reviewing the SCRF EA documents.	26-Jul-2018	Telephone
Mississaugas of the New Credit First Nation	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	17-Nov-2017	Email & Registered Mail Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 and an invitation for an in-person meeting at the convenience of the Indigenous community.	24-Nov-2017	Email
	N.A.	N.A.	N.A.	Terrapure made follow up telephone calls and left voicemail to Indigenous Communities with information regarding the Notice of Commencement and Public Open House #1	30-Nov-2017	Voicemail
	19-Dec-2017	Email	Thank you for the notice on the Terms of Reference for the increase of materials for the Stoney Creek Regional Facility. We would like to meet with you to discuss this project. Does the capacity increase mean an expansion in lands? And what types of materials does the Facility accept? Please get in touch with me to schedule a meeting for the month of February.	Hi – thanks for the email. The expansion is limited to the lands that Terrapure currently owns and in some cases, the footprint would go back to the original approved footprint from the 1996 EA. The Facility accepts industrial waste only, and is not allowed to accept MSW or other putrescible (organic) wastes. We can certainly expand on these items when we meet and look forward to sitting down with you in February. I will provide some potential dates after I have checked with others on the team that would attend the meeting as well.	19-Dec-2017	Email
					<p>Hello,</p> <p>We are looking forward to meeting you next Tuesday. In preparation, please find attached our proposed agenda (see attached). Please let me know if you have any comments or revisions to this.</p> <p>Additionally, as part of this stage of the EA, below are links to the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report. As well, I have attached a copy of the MTCS Screening Checklist for Archaeological Potential. We are requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to bring printed copies to our meeting.</p> <ul style="list-style-type: none"> Work Plans (See Appendix D, pg 170) Geology and Hydrogeology Work Plan Surface Water Resources Work Plan Terrestrial and Aquatic Environment Work Plan Land Use Work Plan Atmospheric Environment Work Plan (including Air Quality, Odour and Noise) Transportation Work Plan Economic Work Plan Archaeology and Built Heritage Work Plan Design and Operations Work Plan Existing Conditions Reports Air, Odour and Meteorology Geology and Hydrogeology Land Use and Economic Environment Natural Environment Noise Surface Water Traffic <p>Draft Conceptual Design Report</p> <p>For context, the Proposed Work Plans were included in the Amended Approved Terms of Reference. They outline the proposed methodology for the assessment and the criteria and indicators that will be used. The Draft Existing Conditions Reports document the results of Site investigations and review of existing data sources. The Draft Conceptual Design Report presents the conceptual design for each of the six options.</p>	30-Jan-2018



Table 7.5 Indigenous Community Comments and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
	6-Feb-2018	Meeting	The following is a summary of comments and questions raised by MNCFN: Conserving and preserving water and restoring watersheds is currently an important issue for band members Where does the SCRF receive waste from? What was the feedback from the community? What was the condition of approval of the Terms of Reference? Is rehabilitation part of the Environmental Assessment? When was the west landfill closed? Fawn requested copies of any archaeological reports Caron noted that she will review the documents previously emailed and follow-up with GHD if she has any questions or comments.	Thank you in advance and please let me know if you have any questions. The SCRF receives waste from Ontario with nearly 50% of materials coming directly from City of Hamilton. Comments from the community has been primarily related to the height and when will the Site will close. The Minister amended Subsection 2.1.1 (Receiving Post Diversion Material at the SCRF) to state that Terrapure will examine and evaluate the feasibility and viability of implementing an onsite diversion program as part of the environmental assessment process. As part of the Environmental Assessment, we will consider potential effects on the environment associated with construction, operation and closure/post-closure. As well, separate from the EA Terrapure has initiated the process of consulting with the community on the closure of the Site and post-closure land use. The west landfill was closed and capped in 1998 and the current facilities (i.e. the dog park, trails, pollinator gardens, etc.) were built between 1998 and 2017. Katrina had previously sent the archaeological screening checklist GHD and Terrapure offered to have separate meetings, with appropriate technical experts, if this would be useful	6-Feb-2018	Meeting
	N.A.	N.A.	N.A.	Just wanted to thank you again on behalf of our team for taking the time yesterday to talk about our project and especially for sharing the history of the Mississaugas of the New Credit. The opportunity for us to learn and understand was really invaluable. I took notes of your questions about our project so I will type those up and circulate a meeting summary. I called your office and there is still space available for the Historical Gathering next week so I signed up to attend on Wednesday. Hopefully I will see you there. As promised here is the link to the Annual Report Highlights we referred to in the meeting: http://www.terrapurestoneycreek.com/s/Stoney-Creek-Regional-Facility-2016-Annual-Report-Highlights_digital-cwca.pdf When I come to the Historical Gathering next week I'll drop off a few copies. As well, if you or other staff are ever interested, we are more than happy to arrange a tour of the operating east landfill (the SCRF) and the closed west landfill. A few follow-up questions: • Do you have digital PDF copies of the three documents you shared (Treaties booklet, Past and Present history, and Rights, Responsibility and Respect)? • Caron – I understand you were working for Six Nations. Do you know who has taken over your role there? I'm having a hard time getting a hold of someone to setup a similar meeting.	7-Feb-2018	Email
	N.A.	N.A.	N.A.	Good afternoon, Attached is a summary of our meeting earlier this month. I've included a PDF of the presentation at the end. Caron – How is your review coming, do you have any questions or do you want to talk to any of our discipline leads? I couriered you a few copies of the Annual Report Highlights last week, let me know if you didn't receive them. By the way I attended the first day of the Historical Gathering. It was really interesting, kudos to everyone that put that on.	1-Mar-2018	Email
	N.A.	N.A.	N.A.	Terrapure provided an update on the SCRF EA as well as an invitation to the Public Open House #2 on March 22, 2018 where Terrapure will present the recommended option for the capacity increase based on technical feasibility, potential environmental impacts and input received from the public, agencies, and Indigenous groups.	8-Mar-2018	Email & Registered Mail
	11-Apr-2018	Telephone	MNCFN requested the links to the most recent documentation as part of the SCRF EA along with the link to the project website.	GHD called MNCFN with an update on the SCRF and to see if there was interest in reviewing the Draft Alternative Methods Reports or any other reports pertaining to the project at this time.	11-Apr-2018	Telephone
	N.A.	N.A.	N.A.	I had a quick chat with Caron today about this project. As you may have seen in the official notice we sent in March, we've identified the recommended option for Terrapure's proposed capacity increase – to reconfigure the Site and increase the height. The recommended option does not include any footprint expansion outside of the limits of the quarry that was previously disturbed. Between now and June, our technical experts are further developing the landfill expansion design, refining the proposed Impact Management Measures to address any environmental effects, and developing monitoring plans. I suggested to Caron that we setup a meeting in June to present those results for your feedback. Between June and August, we will be finalizing those details into a draft Environmental Assessment Report (which will also be available for review/comment). If you are in agreement with that approach I'll reach out to you again in mid-May to find a date that works for your team. Caron – As promised, here are the links to the most recent documentation released as part of this project. If you'd like a quicker primer, I suggest taking a look at the Online Open House (its officially open for comment until April 20, but if you need access after that I'm happy to provide):	11-Apr-2018	Email



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Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
				<ul style="list-style-type: none"> • Draft Alternative Methods Report – This report documents the method used to the evaluation the six options for the capacity increase, and the results of the evaluation from the perspective of the various environmental disciplines • Air, Odour and Meteorology Existing Conditions Report – Has had minor updates to address comments from review agencies • Land Use and Economic Environment Existing Conditions Report – Has had minor updates to address comments from review agencies <p>All project documentation is available in the document library.</p>		
	11-Apr-2018	Email	Can you tell us what field surveys still need to be done or monitoring on Site so Megan can get a contract signed for FLR participation? In terms of presenting your results you could send us the results to be reviewed then we could have a conference call to discuss them?	<p>Yes we could certainly send you the impact assessment reports then have a conference call/webex to discuss. I will be in touch when we have the impact assessment reports are complete.</p> <p>Regarding your other question of what field surveys still need to be done or monitoring on Site, we don't anticipate further field work at this time during the EA. Perhaps only confirmatory visits to look at where Impact Management Measures may occur for enhancing habitat/vegetation to replace that which will be temporarily removed. Would you like to have FLRs participate in those field visits? If so, please send me the details. Regarding monitoring, the post-EA monitoring requirements will be outlined in the impact assessment reports noted above. Once you have had a chance to review we can discuss your future involvement in that monitoring.</p> <p>As well, as we previously mentioned you are more than welcome to come for a tour of the Site.</p>	17-Apr-2018	Email
	05-Jun-2018	Email	Thank you for the invite but we will not be attending the Open House. Please let us know if there are in changes in the plans though.	Terrapure provide an update on the SCRF EA as well as an invitation to the Public Open House #3 on June 19, 2018 where Terrapure will present the detailed impact assessment for the preferred option for capacity increase to the community.	5-Jun-2018	Email & Registered Mail
	N.A.	N.A.	N.A.	<p>We had discussed setting up a conference call in July to present the results of the impact assessment. If you are still interested in that, do you have availability for either of the following times?</p> <ul style="list-style-type: none"> • Tuesday July 10, 8:30 - 9:30 am or 11:00 am - 12:30 pm • Friday, July 13, 10:30 am – 12:00 pm or 1:00 - 2:30 pm <p>If none of those times work I can find something else the following week.</p> <p>If you would like to review any documents separate from our conference call, the impact assessment is documented in several draft impact assessment reports, available for review and comment. Below are links to the most recent documentation that is available for review and comment. The Online Open House also provides a good summary of the information:</p> <ul style="list-style-type: none"> • Draft Impact Assessment Reports: Air Quality and Odour, Geology and Hydrogeology, Land Use and Economic, Terrestrial and Aquatic Environment, Noise, Surface Water, Traffic, Design & Operations • Facility Characteristics Report <p>All documents are always available in the Document Library section of the website.</p> <p>Next Steps</p> <p>The Draft Environmental Assessment (EA) Report will be available for review and comment from August 24 to September 28 (tentative). The review period for the Final EA Report is tentatively scheduled for January/February 2019. When we submit the Final Environmental Assessment Report to the Ministry of the Environment, Conservation and Parks, both us and the Ministry will ask you for acknowledgment that your community is satisfied that its specific rights and interests have been adequately identified and considered during the Environmental Assessment. With the above in mind, I have two requests:</p> <ul style="list-style-type: none"> • Please let me know if you are interested in reviewing the Draft and Final EA Report and have sufficient resources and capacity to do so; and if you are interested in meeting in-person or via webex when the Draft EA Report is available. If you do not have sufficient resources or capacity to review the Draft or Final EA Report we will work with you to identify a solution. • Can you advise whether your community's rights and interests have been adequately considered up to this point in the EA? <p>Thanks again. Please give me a call if you'd like to discuss.</p>	29-Jun-2018	Email
	N.A.	N.A.	N.A.	Terrapure left a follow up voicemail following the request to set up a meeting or interest in reviewing the SCRF EA documentation	13-Jul-2018	Voicemail
	N.A.	N.A.	N.A.	Terrapure left a follow up voicemail following the request to set up a meeting or interest in reviewing the SCRF EA documentation	26-Jul-2018	Voicemail
	01-Aug-2018	Telephone Call	Returning a phone call following receiving the email and voicemails regarding reviewing the materials for the SCRF EA to-date. Indicated that at this time there was no need to review the materials based on existing conditions and impacts from current operations. Requested to continue to be kept in the loop.		01-Aug-2018	Telephone call



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Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
	01-Aug-2018	Email	Thank you for taking my call this morning. Sorry about the delay. We do not need any FLR's on Site for the work that is upcoming because it is a part of the operations for the Site and all the EA work is completed already. At this time we have no immediate concerns. Please let us know if there are any changes to the plan as our interests may change at that time.	Thank you for getting back to me, I understand you spoke to my colleague Katrina Kroeze earlier today and she gave you an update on the project. We will certainly let you know if there are any changes to the plan. There will, as well, be another opportunity for a conference call or meeting once the Draft EA is released if you would like. We expect the Draft EA to be released late August, but I will reach out to you again at that time.	01-Aug-2018	Email
Six Nations of the Grand River First Nation	N.A.	N.A.	N.A.	Terrapure provided the Notice of Terms of Reference Approval and Commencement of the Stoney Creek Regional Facility Environmental Assessment	17-Nov-2017	Email & Registered Mail Letter
	N.A.	N.A.	N.A.	Terrapure provided the Notice of the SCRF EA Public Open House #1 and an invitation for an in-person meeting at the convenience of the Indigenous community.	24-Nov-2017	Email
	N.A.	N.A.	N.A.	Terrapure made follow up telephone calls and left voicemail to Indigenous Communities with information regarding the Notice of Commencement and Public Open House #1	30-Nov-2017	Voicemail
	N.A.	N.A.	N.A.	Following up on our email below, I am writing to give you an update on the Terrapure Stoney Creek Regional Facility Environmental Assessment. As mentioned in our previous correspondence, we would be pleased to meet with the Six Nations of the Grand River First Nation at your office at your convenience to discuss the project, present the information provided at the Open House and bring our technical experts to answer any questions you may have. As part of this stage of the EA, below are links to the Proposed Work Plans, Draft Existing Condition Reports and the Draft Conceptual Design Report. As well, I have attached a copy of the MTCS Screening Checklist for Archaeological Potential. We are requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to send you printed or electronic copies directly. Work Plans (See Appendix D, pg 170) Geology and Hydrogeology Work Plan Surface Water Resources Work Plan Terrestrial and Aquatic Environment Work Plan Land Use Work Plan Atmospheric Environment Work Plan (including Air Quality, Odour and Noise) Transportation Work Plan Economic Work Plan Archaeology and Built Heritage Work Plan Design and Operations Work Plan Existing Conditions Reports Air, Odour and Meteorology Geology and Hydrogeology Land Use and Economic Environment Natural Environment Noise Surface Water Traffic Draft Conceptual Design Report For context, the Proposed Work Plans were included in the Amended Approved Terms of Reference. They outline the proposed methodology for the assessment and the criteria and indicators that will be used. The Draft Existing Conditions Reports document the results of site investigations and review of existing data sources. The Draft Conceptual Design Report presents the conceptual design for each of the six options. If you have any questions on the preceding information or would like to set up a meeting please contact me directly by phone at 416-866-2365 or 647-326-4302. Thank you in advance and I look forward to your reply.	30-Jan-2018	Email
	26-Feb-2018	Email	My name is Mathew Jocko, Consultation Point Person for Lands and Resources for Six Nations. My director Lonny Bomberry sent me over your contact information and I was told that you were wanting to have a meeting with us regarding your project. Can you send me some dates that work for you and I will try to organize my staff.	Left a voicemail following up the previous email sent on January 30, 2018 with a request to confirm if the Six Nations of the Grand River First Nation was interested in reviewing any of the SCRF EA materials at this time.	26-Feb-2018	Voicemail



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Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
	N.A.	N.A.	N.A.	Terrapure provided an update on the SCRF EA as well as an invitation to the Public Open House #2 on March 22, 2018 where Terrapure will present the recommended option for the capacity increase based on technical feasibility, potential environmental impacts and input received from the public, agencies, and Indigenous groups.	8-Mar-2018	Email & Registered Mail
	6-Apr-2018	Meeting	An opportunity for Terrapure to learn more about the history of the Six Nations of the Grand River (Six Nations) and their interest in the Stoney Creek Regional Facility (SCRF) Environmental Assessment (EA)	Terrapure presented information on the SCRF EA, the proposed capacity increase, the options and how they were evaluated and the recommended option. Terrapure answered questions regarding the history of the Site, the existing operations and about the SCRF EA including what kind of materials is currently accepted, how does Terrapure screen material that comes into the Site and archaeological potential during this EA. Terrapure committed to continue to engage and update Six Nations as the EA moves forward and offered a tour of the Site should Six Nations wish to see how they currently operate.	6-Apr-2018	Meeting
	N.A.	N.A.	N.A.	Please let me know if there are any of these documents that Six Nations would like to review and provide comment on. I've included the direct links below, but all are available in the document library: Draft Alternative Methods Reports Existing Conditions Reports <ul style="list-style-type: none"> • Air, Odour and Meteorology • Geology and Hydrogeology • Land Use and Economic Environment • Natural Environment • Noise • Surface Water • Traffic Draft Conceptual Design Report We can also provide printed copies of any documents. If you will not be reviewing these documents, I would also appreciate you letting me know. Next Steps As mentioned in the meeting, we are currently in the Impact Assessment stage. We expect that the draft Impact Assessment Reports for the seven disciplines noted above will be available in June for review and comment. We expect the Draft Environmental Assessment Report will be available for review and comment in early fall, followed by the Final Environmental Assessment Report. When we submit the Final Environmental Assessment Report to the Ministry of the Environment and Climate Change, both us and the Ministry will ask you for acknowledgment that your community is satisfied that its specific rights and interests have been adequately identified and considered during the Environmental Assessment. With that in mind, can you advise whether your community's rights and interests have been adequately considered up to this point in the EA? I will continue to provide you with EA documents and information for your review and comment. If you are not interested in reviewing or providing comment on specific documents, just let me know. If you do not have sufficient resources or capacity to participate, please let me know and we will work with you to identify a solution. Thanks again. Please give me a call if you'd like to discuss.	9-May-2018	Email
	N.A.	N.A.	N.A.	I am writing to give you an update on this Environmental Assessment. For the last several months the technical team has been completing a detailed impact assessment of the preferred option (reconfigure the Site within its existing property boundaries and increase the height), including outlining the proposed Impact Management Measures and monitoring plans. This is documented in several draft impact assessment reports, available for review and comment. Below are links to the most recent documentation that is available for review and comment. The Online Open House also provides a good summary of the information: <ul style="list-style-type: none"> • Draft Impact Assessment Reports: Air Quality and Odour, Geology and Hydrogeology, Land Use and Economic, Terrestrial and Aquatic Environment, Noise, Surface Water, Traffic, Design & Operations • Facility Characteristics Report All documents are always available in the Document Library section of the website. I am requesting that you confirm what material you are interested in reviewing, if any. You may download these documents from our website, or we would then be happy to send you printed or electronic copies directly. I will continue to send you updates and links to EA documents and information for your review and comment. If you are not interested in reviewing or providing comment on specific documents, just let me know. Next Steps The Draft Environmental Assessment (EA) Report will be available for review and comment from August 24 to September 28 (tentative). The review period for the Final EA Report is tentatively scheduled for January/February 2019. Please let me know if you are interested in reviewing the Draft and Final EA Report and have sufficient resources and capacity to do so; and if you are interested in meeting in-person or via webex when the Draft EA	29-Jun-2018	Email



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Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
				Report is available. If you do not have sufficient resources or capacity to review the Draft or Final EA Report we will work with you to identify a solution. When we submit the Final Environmental Assessment Report to the Ministry of the Environment, Conservation and Parks, both us and the Ministry will ask you for acknowledgment that your community is satisfied that its specific rights and interests have been adequately identified and considered during the Environmental Assessment. With that in mind, can you advise whether your community's rights and interests have been adequately considered up to this point in the EA?		
	N.A.	N.A.	N.A.	Left a voicemail following up on an email sent on Friday June 29, 2018 regarding an update on the SCRF EA project including the completion of the detailed impact assessment. Included in the email was the request to confirm which materials Six Nations would be interested in reviewing, if any.	13-Jul-2018	Voicemail
	26-Jul-2018	Telephone Call	Requested to resend the last email with the details of the SCRF EA documents for review.	Spoke about the last email with the request for Six Nations to confirm their interest in reviewing the SCRF EA documentation.	26-Jul-2018	Telephone Call
	N.A.	N.A.	N.A.	Thank you for speaking with me over the phone this morning. As I was mentioning, I was following up on my colleague Katrina M's email on June 29 and voicemail on July 13, 2018 regarding the Stoney Creek Regional Facility Environmental Assessment. See below the request for your confirmation of what materials you are interested in reviewing along with the links to the docents for the project. Please email us at your earliest convenience to confirm.	26-Jul-2018	Email



7.6 Public Stakeholders

7.6.1 Public Participants Consulted

As key stakeholders, Terrapure consulted widely and frequently with community members throughout the SCRF EA process in a variety of ways to solicit their feedback and address concerns they may have had with the project. Specifically, public stakeholders consulted throughout the SCRF EA process included:

- Property owners immediately adjacent to the SCRF
- Residents and businesses within 1.5 km of the SCRF property boundary
- Members of the public, primarily residents and businesses, who provided their contact information and were interested in the project
- City of Hamilton Councillors, including those in office prior to and after the 2018 municipal election.
- Members of Parliament David Sweet (Flamborough – Glanbrook) and Bob Bratina (Hamilton East – Stoney Creek) November 2015 - Present
- Community Representatives on the Community Liaison Committee (CLC)
- Non-government organizations and community based organizations with interest in the project
- Terrapure customers and vendors

Throughout the EA process, newly interested public stakeholders who participated in any of the numerous consultation activities were added to the project contact list for continued engagement and notification of project updates.

A full list of Public Participants can be found in **Vol. 3 – Appendix G**.

7.6.2 Overview of Consultation Activities with Public Stakeholders

Consultation with public stakeholders began at the Notice of EA Commencement and continued at the various key milestones throughout the SCRF EA. Input from the public was obtained through each of the consultation activities and considered at each key milestone of the SCRF EA. The full list of consultation activities undertaken with public stakeholders throughout the EA process included the following:

- Circulation of the Notices of Commencement and Public Open Houses (see **Section 7.6.3**)
- Three Public Open Houses (In-person and Online) (see **Section 7.6.4**)
- Individual meetings, telephone calls, email correspondence (see **Section 7.6.5**)
- Community Liaison Committee Workshop (see **Section 7.6.6**)
- Circulation of the Draft Environmental Assessment and circulation of the Final Environmental Assessment (see **Sections 7.10 and 7.11**)

7.6.3 Notices of Commencement and Open Houses

7.6.3.1 Notice of Commencement & Notice of Open House #1

Following the approval of the Amended ToR for the SCRF by the MECP on November 9, 2017, Terrapure distributed a Notice of EA Commencement announcing the start of the EA process. The Notice of Commencement included the locations where the Approved Amended ToR was available for viewing as well as encouraging public, agencies, and Indigenous communities to stay tuned for upcoming consultation opportunities regarding the SCRF EA.



The Notice of Commencement was published on November 17, 2017, and was distributed via the following means:

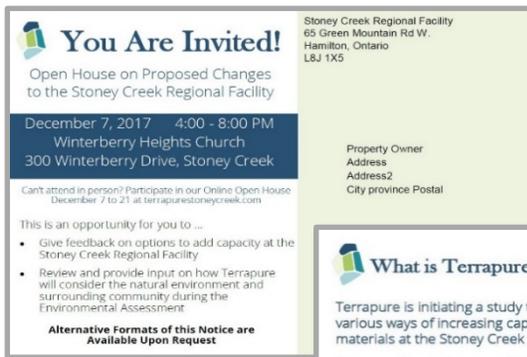
- Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Doug Conley (Ward 9), Maria Pearson (Ward 10), Donna Skelly (Ward 7), Judi Partridge (Ward 15), Chad Collins (Ward 5)
- Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee
- Direct mailing and emailing on November 17, 2017, to all identified agencies, Indigenous communities, City of Hamilton Council, and members of the public on the project-specific database.
- Registered mail to immediate adjacent property owners on November 17, 2017.
- On Terrapure SCRF Social Media Channels on November 17, 2017.
- Ad in the Hamilton Spectator on November 17, 2017.
- Ad in the Stoney Creek News on November 23, 2017.
- Terrapure notified stakeholders of the Notice of EA Commencement, Public Open House and Online Open House through a variety of means to increase awareness and the potential number of public members participating. For each of the notifications, Terrapure promoted both the in-person public Open House as well as the Online Open House. Specifically, the following notifications for the event were distributed:
 - Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Councillor Doug Conley (Ward 9), Maria Pearson (Ward 10), Councillor Donna Skelly (Ward 7), Councillor Judi Partridge (Ward 15), Councillor Chad Collins (Ward 5).
 - Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee.
 - Two advertisements in the Hamilton Spectator on November 23, and December 2, 2017.
 - Advertisement in the Stoney Creek News on November 30, 2017.
 - Direct mailing and/or emailing between November 21-24, 2017, to all identified agencies, Indigenous communities, City of Hamilton Council and members of the public in the project-specific contact database.
 - Addressed postcards mailed between November 22-24, 2017 to residences in adjacent Penny Lane Estates and Empire Victory residential developments.

New! Mobile Sign Advertising

We placed a mobile sign announcing the Open House beginning on November 22, 2017 on the Terrapure property south of the south-west corner of Upper Centennial Parkway and Green Mountain Road.



- Unaddressed postcard mailed between November 22-24, 2017, advertising the Open House to 7,256 residences and businesses within 1.5 km of the Site.
- Reminder email distributed to those in the project-specific contact database about the Online Open House on December 7, 2017 and January 11, 2018.
- Notices on the SCRF website and advertised on SCRF Twitter and Facebook accounts were published on November 23 & 29, 2017.
- Information about the Open House posted on the Empire Victory Community private Facebook Group.
- An [article in the Stoney Creek News](#) was published on November 30, 2017.



7.6.3.2 Notice of Open House #2

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:

- Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Councillor Doug Conley (Ward 9), Councillor Maria Pearson (Ward 10), Councillor Donna Skelly (Ward 7), Councillor Judi Partridge (Ward 15), Councillor Chad Collins (Ward 5).
- Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee.
- Two advertisements in the Hamilton Spectator on March 9, and March 17, 2018.
- Two advertisements in the Stoney Creek News on March 15, and March 22, 2018.
- Direct mailing and/or emailing to all identified agencies, Indigenous communities, City of Hamilton Council, and members of the public in the project specific contact database between March 8-15, 2018.
- Addressed postcard mail between March 8-15, 2018 advertising the Public Open House #2 to Penny Lane, Victory Developments and the newly built Empire Community immediately north of the SCRF.
- Unaddressed postcard mail between March 8-15, 2018 advertising the Public Open House #2 to 7,381 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 southwest corner of Upper Centennial Parkway and Green Mountain Road between March 8-22, 2018.
- Reminder emails distributed to those on the project database about the Online Open House and its upcoming deadline on April 17, 2018.



- An [article in the Stoney Creek News](#) was published on March 16, 2018.
- Notices on the SCRF website and advertised on SCRF Twitter and Facebook accounts were published leading up to the Public Open House #2 on March 22, throughout March, and ongoing for the Online Open House until April 20, 2018.



7.6.3.3 Notice of 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:

- Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Councillor Doug Conley (Ward 9), Councillor Maria Pearson (Ward 10), Councillor Donna Skelly (Ward 7), Councillor Judi Partridge (Ward 15), Councillor Chad Collins (Ward 5).
- Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee.
- 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, City of Hamilton Council, and members of the public in the project specific contact database between June 5-12, 2018.
- Addressed postcard mail between June 5-12, 2018 advertising the Public Open House #2 to Penny Lane, Victory Developments and the newly built Empire Community immediately north of the SCRF. Unaddressed postcard mailed between June 5-12, 2018, 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 southwest 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.
- An [article 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, throughout June, and ongoing for the Online Open House until July 20, 2018.



7.6.4 Public Open Houses

As part of this EA, Terrapure held three Public Open Houses at three key decision-making milestones:

- **Public Open House #1** – discussion on the developed Alternative Methods, the evaluation criteria and indicators to be applied to the Alternative Methods, and the evaluation methodology that will be utilized.
- **Public Open House #2** - reviewing the results of the comparative evaluation of the Alternative Methods and identifying the Recommended Alternative Method.
- **Public Open House #3** - reviewing the impact assessment results of the Preferred Landfill Footprint (Preferred Method), including potential environmental effects, recommended impact management measures, proposed monitoring requirements, and proposed approvals/permits required for implementing the Preferred Landfill Footprint.

All three Public Open Houses were held on a weekday evening between 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.

In an effort to broaden Terrapure's reach, and based on feedback received by community members, Online Open Houses for the stakeholders were held in conjunction with each of the three In-Person Open Houses. For each, the Online Open House was available for review and comment for one month, starting on the date of the In-Person Open House.

The Online Open House is a way to give interested stakeholders and community members who may not be able to or interested in attending the open house the opportunity to review the information and provide meaningful input. The Online Open House was accessible by visiting the project website. The information on the Online Open House included all of the same consultation materials (display boards, handouts and comment sheets) presented at the In-Person Open House. Terrapure considered feedback received from the Online Open House equally with feedback provided at the In-Person Open House.

7.6.4.1 Public Open House #1

Date: Thursday, December 7, 2017 from 4 p.m. to 8 p.m.

Purpose: Provide community members with an opportunity to review, ask questions, seek clarifications, and comment on:

- EA process
- Six Alternative Landfill Footprint to accommodate the capacity increase
- Proposed evaluation methodology
- Existing environmental conditions in and around the SCRF
- Proposed consultation methods with the public going forward



7.6.4.2 Public Open House #2

Date: Thursday, March 22, 2018 from 4 p.m. to 8 p.m.

Purpose: Provide community members with an opportunity to review, ask questions, seek clarifications, and comment on:

- EA process
- Assessment and Evaluation Methodology
- Results of the evaluation for each of the six Alternative Methods, as well as the comparative evaluation of the six Alternative Methods against one another
- Recommended Reconfiguration and Height Increase Alternative Method No. 5
- Further considerations of the natural environment and surrounding community during the next phase (Impact Assessment)
- Proposed consultation methods with the public going forward



7.6.4.3 Public Open House #3

Date: Tuesday, June 19, 2018 from 4 p.m. to 8 p.m.

Purpose: Provide community members with an opportunity to review, ask questions, seek clarifications, and comment on:

- EA process
- Confirmation of the preferred reconfiguration and height increase Alternative Method
- Results of the detailed impact assessment for the Preferred Landfill Footprint
- Proposed impact management measures, monitoring and commitments
- Next steps and future consultation opportunities

Public Open House Summary Reports can be found in **Vol. 3 – Appendix H**.

7.6.5 Individual Meetings, Emails and Telephone Calls

Terrapure met with various individuals and groups expressing an interest in the project throughout the preparation of the SCRF EA. The primary purpose of these meetings were to address concerns and comments from the individual and make best efforts to resolve any outstanding issues in a mutually beneficial way.

In addition to the formal and informal in-person meetings, Terrapure received telephone calls and email correspondence regarding the SCRF EA. These means of engagement with the public were commonly utilized by members of the public and by Terrapure as a means to more quickly exchange information (i.e., provide comments, ask questions, etc.).

As noted in **Section 7.4.6**, this included informal telephone calls and in-person discussions with Councillors Doug Conley and Brad Clark, the past and current City of Hamilton Ward 9 Councillors. Informal telephone calls and in-person discussions were also held with former Councillor Donna Skelly, who became the Member of Provincial Parliament for Flamborough – Glanbrook, where the SCRF is located, in June 2018. An in-person meeting was held with M.P.P. Skelly on October 15, 2018 to provide an update on the project.



Finally, a number of Terrapure's clients, suppliers, and business partners submitted letters to the MECP in support of the proposed undertaking. These letters included details of their existing and ongoing working relationships with Terrapure as well as the vital role the SCRF plays in supporting local industries and the regional economy.

Correspondence with Public Stakeholders including the individual Letters of Support can be found in **Vol. 3 – Appendix I**.

7.6.6 Community Liaison Committee Workshop

The existing Terrapure SCRF CLC meets quarterly to discuss the Site's current operations as part of its existing permit. The CLC is comprised of citizen members from the local community surrounding the Facility, representatives of Terrapure, the City of Hamilton, and the Ministry of the Environment, Conservation and Parks.

At key milestones, Terrapure offered the CLC an opportunity to hold special Workshops outside of the regularly scheduled CLC meetings, as a forum for in-depth discussion of project issues and act as a conduit with the local community.

The CLC requested one additional workshop meeting in advance of the Public Open House #1. The workshop was held on Monday December 4, 2017, at the Winterberry Heights Church (300 Winterberry, Stoney Creek). At the meeting CLC Members confirmed that they received the Notice for the open house, had discussions about the difference between residual and industrial fill, and asked clarifying questions including:

- How many people typically attend In-Person Open Houses
- The duration for the Online Open House
- The EA process
- Closure timelines
- Concerns regarding potential for contaminants leaking
- Consideration of Comments Received and Issues Raised

A summary of the CLC Workshop can be found in **Vol. 3 – Appendix J**.

7.6.7 Consideration of Comments Received and Issues Raised

In light of the numerous consultation activities carried out by Terrapure with members of the public during the preparation of the SCRF EA, various comments were received reflecting a number of issues. In response, Terrapure considered these comments and attempted in good faith to resolve the raised issues so that both Terrapure and the interested person(s) had an agreeable resolution during the SCRF EA.

Table 7.6 summarizes the comments received from the public through correspondence (written and electronic), telephone calls, and meetings and how they were considered by Terrapure. This table is organized by type of comment or issue in accordance with Section 4.3.7 of the Ministry of the Environment's Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014).

Several of the comments and concerns raised resulted in changes to the SCRF EA, including:

- In response to concerns raised about the visual impact of the SCRF and the proposed height increase, Terrapure presented and asked for feedback on several conceptual screening techniques at Open House #3. Terrapure has committed to implementing visual screening measures during construction, as appropriate. Further, Terrapure prepared visual renderings and cross-sections to illustrate the anticipated change in the visibility of the SCRF.
- In response to concerns about the ranking of the "Effects of Views of the Facility" criteria, Terrapure modified the comparative evaluation, changing Alternative Method No.5 from yellow (low negative net effect) to orange (medium negative net effect).

- In response to concerns about the accuracy of some of the maps and figures used in the reports, specifically related to the road network, Terrapure revised these maps and figures to reflect the most up-to-date information.
- In response to suggestions to present technical information in a more public-friendly way, Terrapure released two videos, described in Section 7.3.3

7.7 Summary of Consultation with City of Hamilton and Local Elected Officials

As important stakeholders representing the interests of the City of Hamilton and their respective constituencies, Terrapure made significant efforts to keep the City of Hamilton and local elected officials informed at key milestones throughout the SCRF EA process. With this in mind, the following is a summary of the consultation undertaken with the City of Hamilton Staff, Mayor and Councillors, Members of Provincial Parliament (MPP), and Members of Parliament (MP):

- Participation by City of Hamilton staff in GRT Webinars (see Section 7.4.3).
- Individual meetings with City of Hamilton staff (see Section 7.4.4).
- Circulation of draft reports prepared during the EA process to City of Hamilton staff for their review and comment, including work plans for individual environmental components, existing condition reports for individual environmental components, the Conceptual Design Report, the Alternative Methods Report, the Facility Characteristics Report, and detailed impact assessment reports for individual environmental components (see Section 7.4.5).
- Circulation of the preliminary Draft Environmental Assessment Report to City of Hamilton staff for review and comment (see Section 7.4.5).
- Presentations to the City of Hamilton Council Planning Committee by City of Hamilton staff Terrapure representatives on the existing compensation agreements and on staff comments on the preliminary draft Environmental Assessment Report (see Section 7.4.6).
- Subsequent revisions to the reports prepared during the EA process and the preliminary Draft Environmental Assessment Report as a result of comments received from City of Hamilton staff (see Section 7.4.7).
- Advanced courtesy notice of Public Open Houses by email/telephone calls to City of Hamilton Mayor, Councillor Doug Conley (Ward 9), and other members of council (see Section 7.6.3).
- Circulation of all notifications to City of Hamilton Mayor, Councillors, including the Notice of Commencement and Open House #1 (see Section 7.6.3.1), Notice of Open House #2 (see Section 7.6.3.2), Notice of Open House #3 (see Section 7.6.3.3), Notice of Draft EA (see Section 7.10.1) and Notice of Submission (see Section 7.11.1).
- Participation by Councillor Doug Conley (Ward 9) and Councillor Maria Pearson (Ward 10), at the Community Liaison Committee Workshop (see Section 7.6.6).
- Attendance by Councillor Doug Conley (Ward 9) at Open Houses #1, #2 and #3 (Section 7.6.3).
- Multiple informal telephone and in-person discussions with Councillors Doug Conley and Brad Clark (Ward 9) throughout the EA process (see Section 7.4.6).
- Notifications to and informal telephone and in-person discussions with current M.P.P. Donna Skelly (Flamborough – Glanbrook) during her tenure as City of Hamilton Councillor, and in-person meeting with M.P.P. Skelley on October 15, 2018 (see Sections 7.6.3 and 7.6.5).
- Correspondence with local and regional elected officials can be found in Vol. 3 – Appendix I.



Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
Purpose of the Undertaking/Alternatives To the Undertaking	
Opposition to any of the expansion options; close the SCRF immediately.	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 (see Section 3).
Consider a different site; consider a site outside a residential community.	Terrapure considered finding an alternative site for a new facility during the Terms of Reference stage of the project and determined it not to be feasible (see Section 3).
EA Process and Public Consultation	
Terrapure can better help the public understand the current operations compared to the proposed options.	This comment will be considered, as we continue to develop educational resources to help the community to better understand who Terrapure is and what happens at the SCRF. Existing resources are available on the project specific website (www.terrapurestoneycreek.ca) including two new videos Terrapure produced, based on community questions, on the waste acceptance process and the current operations at the Site. These videos are also available here: http://bit.ly/SCRFvideos To provide Terrapure with further suggestions on how to better communicate and engage with the community, residents are encouraged to send their suggestions to info@terrapurestoneycreek.com
Terrapure should consider funding for the community to seek out independent expert input, which was once a standard for the environmental assessment process.	Although Terrapure has not provided funding for the community to seek out an independent expert, there is a Government Review Team which is comprised of a team of independent experts from the Ministry of the Environment and Climate Change, the City of Hamilton and other government agencies. The Government Review Team reviews and scrutinizes the work completed by Terrapure's team of experts to ensure the EA to ensure that it is conducted using best practices.
Concern regarding the possibility of additional expansions in the future.	Additional expansions beyond the capacity increase being sought through this EA would require separate approvals.
The Environmental Assessment Process diagram shows the Ministry making a decision on the EA in Spring 2019. Will Terrapure suspend operations at the Stoney Creek Landfill site if the current Site license is reached before that time?	Terrapure is and will continue to operate within the approved capacity limits currently set out in the existing Environmental Compliance Approval.
Feeling that the presentation of the material at the In-Person Public Open House indicated that the proposed expansion is already a "done deal".	As the Environmental Assessment progressed, Terrapure considered ways to improve the way information was presented at Open Houses. The proposed capacity increase is not final until the Minister approves, rejects or approves with conditions Terrapure's Environmental Assessment Report.
The Online Open House format only invites comments to the promotional content on the Site. The participant completing the survey should be invited to comment on a broader list of issues or any other matter of concern. The Online Open House and the Open House on June 19th was very similar to the last open house. No staff member formally invited participants to fill out the comment form and not all stations were attended by a member of the PR team.	The Online Open Houses included the same content as the in-person Open Houses. The Online Open Houses included opportunities for feedback as embedded forms which invited participants to provide comments on the Environmental Assessment, including feedback forms with specific questions (i.e. "Do you have any comments on the detailed impact assessment? and Do you have any comments on the proposed impact management measures for the preferred option") and general feedback forms (i.e. "Other Comments"). At the In-person Open House, comment forms were available throughout the room and project team were available both at the various stations and circulating throughout the room.
Concerned with the use of the terms industrial fill and residual material which is inconsistent with what the MECP uses to describe these different materials. The material that will be landfilled is 'non-hazardous industrial waste' and, I believe it should be referred to as such.	Terrapure uses the term "residual material" to describe non-hazardous solid industrial waste interchangeably. Terrapure published a video on the waste acceptance process at the Site to help explain what kind of materials are received at the SCRF (http://bit.ly/SCRFvideos).
GHD prides itself on its website as being a member of the IAP2 organization and to the code of ethics for public participation. The Public's participation in these types of studies is paramount and GHD has undertaken numerous occasions to keep the public informed. However, some of the public involved, feel that although there has been public info sessions and documents provided; the process of a business (Terrapure) trying to continue its operations for decades into the future at this Site, gets the most favourable slant in the documents provided by the process. The public needs its point of views, as this code of ethics to be followed notes, to be considered and to be seriously put forward by GHD.	Members of the GHD project team are members of the International Association of Public Participation (IAP2), and as such, follow the IAP2's Code of Ethics. Consultation for the SCRF EA was undertaken in accordance with the <i>Environmental Assessment Act</i> and applicable MECP Codes of Practice. In keeping with these guidance documents and requirements, Terrapure established the purpose of this Environmental Assessment at the beginning of the project - to increase the approved capacity of the SCRF by 3,680,000 m ³ . This purpose statement was developed during the Terms of Reference and was based on the business case established by Terrapure. Once the purpose was established, Terrapure proceeded with the subsequent stages of the Environmental Assessment, including assessing the various options that would meet that purpose and consulting stakeholders on those options.
Offended that Greg Jones of Terrapure rudely cut off participants' questions during the Open House presentation and in front of other community members and GHD personnel. Mr. Jones offered to speak to the individual in private for some reason, but refused to answer any further questions with other community members present. The invite to the Open House says it is an opportunity to give feedback on the preferred reconfiguration and height increase. If this is how Terrapure is going to react to feedback from the community that doesn't align with their preferred option, there is really no value in having an Open House.	Staff members do their best to answer questions received while also being considerate of other members of the public that they are speaking to.
Study Area and Existing Conditions	
Consider expanding the Study Area to include all areas west of the Site to the freeway since these residents travel along Mud Street to Hwy 20. and are subject to the views, noises, traffic, and odour of the Site.	As part of evaluating the six options, a 1.5km study area was establish the existing conditions for elements of the environment such as visual, noise, traffic, and odour and confirmed during the impact assessment as it reflected the extent of potential environmental effects.
Attached are pdf's for documents, Figure 2.1, 4.4 and 6.1 which are from the Terrapure website. As can be seen the dotted area around the dump is called the local study area. Within this area the roads infrastructure is shown between the concession lines. We take issue with the misleading portrayal of the local study area on these maps, as it tends to indicate for lands around the dump that are merely open fields when in fact there are numerous new roads or streets in housing areas that are not shown on the map. See the attached PDF titled "Neighbourhoods around Dump" a summary of the information is as follows:	As a result of this comment, the most recent road network map data, which showed the new roads and streets, was obtained and all future maps reflected the most recent road network available. Notwithstanding the above, the neighbourhoods highlighted in the comment were considered as part of this project. Specifically, these neighbourhoods are included in Figure 4.3 and Table 4.2 of the Land Use Existing Conditions Report (Appendix E) . The purpose of the <i>Land Use Existing Conditions Report</i> is to identify the existing land use, zoning and official plan designations, and more specifically



Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered																								
<p>a.) Neighbourhoods to the North immediately across the road from the Dump consist of over 2 miles of additional streets not shown in these documents, with over 200 homes in the area.</p> <p>b.) Neighbourhoods to the West of the Dump site consists of over 1 mile of additional streets not shown in the documents references, with over 250 homes in this area.</p> <p>c.) Neighbourhoods to the South of the Dump site consists of over 1.5 miles of additional streets not shown in the documents references, with over 200 homes in the area, plus the many 100's of homes already there and even more to come in the parcel of land now being developed to the East.</p> <p>These new streets and roads must be shown in any map of the study area. There are also two schools within the study area as well that we feel should be noted as they are important sites to have an appreciation for in this process. There may be other references in other documents on this application going forward any reference maps referencing the study area should show all streets.</p> <p>Then there are the various applications being made by developers for housing sites within the local study area where roads are not in place as yet. These developments consist of the following additional housing units to be around the Dump and are noted in the attached screen shots of the City of Hamilton Planning Dept. website</p> <p>ZAC-13-005 has 340 units ZAR-13-025 has 96 units ZAC-15-015- has 450 units ZAC -15-059 has 39 units ZAC-16-065 has 197 units ZAC-16-066 has 135 units ZAC-17-001 has 97 units</p> <p>In total, another 1354 housing units are to be built within the local study area. A large number of homes cannot be ignored and left out of the discussions going forward. Their inclusion as an item of references on the study area documents to be submitted in the application and on documents for the community should be required factor in the analysis of this request being made of the MECP.</p> <p>In Figure 4.4 the colour shading shows that properties across from the Dump on Upper Centennial parkway are coded agricultural lands for current zoning info. However, there has not been minimal agricultural activity on these lands for the past decade and in fact these pink coded properties are owned by those that are involved with housing developments. So another influx of neighbourhoods around this Dump to come on top of all the current and approved properties in the area.</p>	<p>describes the existing and surrounding neighbourhoods. The <i>Land Use Existing Conditions Report</i> was reviewed by City of Hamilton Planning staff (see Section 7.4.5).</p> <p>The two schools included in the comment were St. James Apostle School and Saltfleet High School. Both these schools are within the Local Study Area and both of these schools have been taken into consideration in this EA. They are included in Section 4.2.2.4 of the <i>Land Use Existing Conditions Report</i> (Appendix E). In addition, Terrapure consulted the Hamilton-Wentworth District School Board and the Hamilton-Wentworth District Catholic School Board regarding this project, and they were provided with these reports for their review (see Section 7.4.5).</p> <p>The development applications referenced in the letter were considered as part of this project. The applications referenced in the letter and included in Figure 4.3 and Table 4.2 of the Land Use Existing Conditions Report as follows:</p> <table border="1"> <thead> <tr> <th>Application #</th> <th>Number of Units</th> <th>ID# in Table 4.2 of the Land Use Existing Conditions Report</th> </tr> </thead> <tbody> <tr> <td>ZAC-13-005</td> <td>340 units</td> <td>#60</td> </tr> <tr> <td>ZAC-13-025</td> <td>96 units</td> <td>#61 (our records indicate 120 units)</td> </tr> <tr> <td>ZAC-15-015</td> <td>450 units</td> <td>#65</td> </tr> <tr> <td>ZAC-15-059</td> <td>39 units</td> <td>Not included in the Existing Conditions Report, as the status of this application recently changed.</td> </tr> <tr> <td>ZAC-16-065</td> <td>197 units</td> <td>#70</td> </tr> <tr> <td>ZAC-16-066</td> <td>135 units</td> <td>#69</td> </tr> <tr> <td>ZAC-17-001</td> <td>97 units</td> <td>#68</td> </tr> </tbody> </table> <p>As noted, a large number of homes have recently been built or are proposed to be built within the Local Study Area. The potential effect of the proposed capacity increase on planned and future land uses, including new residential development within 1.5 km of the SCRF, was considered as part of evaluating the options and conducting the impact assessment.</p> <p>A visual assessment of these properties was conducted in February 2018 (photos are included in Section 5.5 of the Land Use Existing Conditions Report (Appendix E), which concluded that these fields are farmed or used for the purpose of agriculture. The Ontario Ministry of Agriculture and Rural Affairs was provided a copy of the report for review and comment as well. As of April 13th, 2018, the City of Hamilton did not have any proposed development plans for these parcels. As well, they are currently zoned for agriculture purposes. As a result, the categorization of these properties remained as agricultural.</p>	Application #	Number of Units	ID# in Table 4.2 of the Land Use Existing Conditions Report	ZAC-13-005	340 units	#60	ZAC-13-025	96 units	#61 (our records indicate 120 units)	ZAC-15-015	450 units	#65	ZAC-15-059	39 units	Not included in the Existing Conditions Report, as the status of this application recently changed.	ZAC-16-065	197 units	#70	ZAC-16-066	135 units	#69	ZAC-17-001	97 units	#68
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<p>Interested in the type and quantity of waste material to be accepted now and with the six options.</p>	<p>The SCRF is only permitted to receive industrial solid non-hazardous residual materials from operations like the local steel producers and infrastructure projects like the new James Street GO station and the McMaster Children's Hospital expansion. The SCRF is permitted to receive 750,000 tonnes of material/year. Through this Environmental Assessment, Terrapure are not seeking approval to change the type of waste we accept on-site (see Section 3).</p>																								
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<table border="1"> <thead> <tr> <th>Option</th> <th>What do you like about this option?</th> <th>What do you dislike about this option?</th> </tr> </thead> <tbody> <tr> <td>Option 1: Reconfiguration</td> <td>Nothing (x5) No height increase (x6) Original footprint (x5) Of all the options this would appear to be the best (x5) Earliest closure (x1)</td> <td>Increases volume (x3) The footprint expansion (x1)</td> </tr> <tr> <td>Option 2: Footprint Expansion</td> <td>No height increase (x5) Nothing (x7) Neutral (x1)</td> <td>The footprint expansion (x4) Increase volume (x2) Neutral (x1) Keeps industrial fill = open longer (x1)</td> </tr> <tr> <td>Option 3: Height Increase</td> <td>Nothing (x8) No change in footprint (x1)</td> <td>The height increase (x8) Increase volume (x3) Infringes on sight for neighbouring housing (x1) Do not want it to be higher than the surrounding area (x1) Keeps industrial fill = open longer (x1)</td> </tr> <tr> <td>Option 4: Reconfiguration and Footprint Expansion</td> <td>Nothing (x7) No height increase (x4)</td> <td>Volume increase too high (x4) Footprint change (x3) Nothing (x1)</td> </tr> <tr> <td>Option 5: Reconfiguration and Height Increase</td> <td>Nothing (x8)</td> <td>Volume increase too high (x4) Height increase (x7)</td> </tr> <tr> <td>Option 6: Footprint Expansion and Height Increase</td> <td>Nothing (x8)</td> <td>Volume increase too high (x2) Height Increase (x7) Everything (x3) Keeps industrial fill = open longer (x1)</td> </tr> </tbody> </table>	Option	What do you like about this option?	What do you dislike about this option?	Option 1: Reconfiguration	Nothing (x5) No height increase (x6) Original footprint (x5) Of all the options this would appear to be the best (x5) Earliest closure (x1)	Increases volume (x3) The footprint expansion (x1)	Option 2: Footprint Expansion	No height increase (x5) Nothing (x7) Neutral (x1)	The footprint expansion (x4) Increase volume (x2) Neutral (x1) Keeps industrial fill = open longer (x1)	Option 3: Height Increase	Nothing (x8) No change in footprint (x1)	The height increase (x8) Increase volume (x3) Infringes on sight for neighbouring housing (x1) Do not want it to be higher than the surrounding area (x1) Keeps industrial fill = open longer (x1)	Option 4: Reconfiguration and Footprint Expansion	Nothing (x7) No height increase (x4)	Volume increase too high (x4) Footprint change (x3) Nothing (x1)	Option 5: Reconfiguration and Height Increase	Nothing (x8)	Volume increase too high (x4) Height increase (x7)	Option 6: Footprint Expansion and Height Increase	Nothing (x8)	Volume increase too high (x2) Height Increase (x7) Everything (x3) Keeps industrial fill = open longer (x1)	<p>This aspects that were raised in relation to the Alternative Methods were taken into account by the evaluation criteria and indicators used to evaluate the Alternative Methods (see Section 5.4)</p>			
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Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>What matters most to the community is the height of the landfill and the length of time that it will take to close and cap the Site. These topics are sadly under represented in the Evaluation Criteria as there is only one line that partially captures the height issue (predicted change in views of the Facility from the surrounding area) and none on closure date, as compared to 5 lines on Terrestrial and Aquatic Environment and 3 on Archaeology and Built Heritage even though I doubt that differs at all between the 6 options.</p> <p>In my opinion, once again, Terrapure has selected criteria that is not commensurate with the desires of the community, has ignored the most important criteria and consequently scoring the Evaluation Criteria as constructed will be useless. The community wants no further increase in height and a closure date as soon as possible. These two factors should be at the top of the Evaluation Criteria and receive the largest share of the point structure when evaluating the 6 options.</p> <p>Consideration of closure time. None of the evaluation criteria currently pertains to Site closure.</p>	<p>While closure timing is not included as a separate evaluation criteria, every criteria will be assessed in relation to timeframes of construction, operation, and closure/post-closure, as per the Minister Approved Amended Terms of Reference. Therefore, any potential effects during construction/operation would be considered to have a greater impact in those alternatives that have longer construction/operation durations. The effect of the SCRF on existing views was one of the evaluation criteria that was used to evaluate the six options (see Section 5.6). None of the evaluation criteria were weighted as more or less important. The alternatives will be compared using a reasoned argument approach where advantages and disadvantages are used to identify preferences among the options (see Section 5.3).</p>
<p>The Environmental Components selected by Terrapure to make this decision were not appropriate and resulted in the outcome that Terrapure had desired at the outset. Of the 9 Environmental Components, 5 had no differentiation amongst the 6 options (Archaeology, Geology, Terrestrial, Transportation, and Atmospheric), 2 more had only an insignificant difference (Surface Water and Human Health) leaving only 2 (Land Use, Visual, Economic and Design & Operations) to base the decision on.</p>	<p>The environmental components were selected to reflect the broad definition of the environment under the <i>Environmental Assessment Act</i>, specifically the natural, social, economic, cultural, and built environments. These components are consistent with other Environmental Assessments undertaken throughout Ontario, and were approved by the Minister of the Environment and Climate Change in the Terms of Reference.</p>
<p>In the "What We Heard from Community Members" section [Open House #2], Terrapure states "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". Yet Terrapure in forming their Environmental Components excluded closure date entirely, and had only 1 criteria for visual that as stated above was incorrectly scored.</p>	<p>While closure timing is not included as a separate evaluation criteria, every criteria will be assessed in relation to timeframes of construction, operation, and closure/post-closure, as per the Minister Approved Amended Terms of Reference. Therefore, any potential effects during construction/operation would be considered to have a greater impact in those alternatives that have longer construction/operation durations.</p>
<p>Under "Highlights of Community Feedback", [Open House #3 Display Panels] Terrapure says "We have selected a preferred option with the lowest height increase of all the options". That is simply not correct as Options 1, 2 and 4 have no height increase compared to the 2.5 m increase for Option 5. Please revise that comment.</p>	<p>The text in the "Highlight of Community Feedback" section did not state that Terrapure selected a preferred option with the lowest height increase. The text was as follows: "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 impact."</p>
<p>In the November 22, 2017 Stoney Creek News, Greg Jones was quoted as saying "the company will use public feedback to pick a preferred option which will be presented at a second Open House", yet Option 5 was selected which had zero support from the community based on Terrapure Table 4.1 Summary of Comments Received on the Six Options on GHD/Terrapure – EA Open House #1 Summary Report as compared to Option 1 where there were 17 positive comments from the community. Consequently, please remove the comment "Confirmed the Preferred Option taking into consideration feedback from members of the community, agencies and Indigenous groups" as that is obviously not true.</p>	<p>Since none of the feedback received on the recommended option (including feedback received at the second Open House #2) changed the results of the comparative evaluation, Option 5 was confirmed as preferred (see Section 5.12.1). Terrapure also did receive feedback from stakeholders acknowledging that Option 5 was the best compromise, minimizing height increase while still providing the additional capacity being sought in the EA.</p>
<p>From the March 22 Open House the 'Comparative Evaluation of Options Summary' handout was provided to attendees. There are issues with this analysis. As stated by GHD in other documents, the preferred option for Terrapure going forward is Option 5. It is amazing that Option 5 did not have one red circle in its evaluation on the Summary sheet; kind of misleading and in our minds simply a portrayal to unjustly favour Terrapures wishes.</p>	<p>Option 5 was determined to be the recommended option as a result of the comparative analysis of the net overall outcome of these the category independent rankings (see Section 5.12).</p>
<p>In the "Land Use" component there are Red Circles for Option 3 and 6 which have 11 metre (36 feet) and 8 metre (26 feet) of landfill height increases. Whereas Options 1, 2 and 4 have no height increase changes and are not Red Circled which would seem appropriate. But when looking at Option 5 info, there is not a Red Circle shown. There should be a Red Circle shown as the height will increase by 2.5 m (8 feet). The consultant from GHD (Brian Dermody) confirmed at the open house that this colour coding was their opinion on things and not that of the community of residents around the Dump. This evaluation of height needs to take into consideration the results of the survey feedback on what was said to GHD by the community, which overwhelmingly the comments back were that residents did not want to see any height increase at the Dump. A height increase is a height increase and as noted in this handout under "Effect on views of the Facility" there is an effect that we residents around the Dump are not wanting, so a Red Circle needs to appear in this section under Option 5.</p>	<p>The ranking for this category was based on visual impact and the ability for it to be mitigated, rather than height in and of itself, as this better represents the impact that residents will experience. Visual renderings were produced from a variety of viewpoints around the SCRF to determine the visual impact. Notwithstanding, in response to comments on the ranking of the "Effects of Views of the Facility" criteria, Terrapure modified the comparative evaluation, changing Option 5 from yellow (low negative net effect) to orange (medium negative net effect) (see Section 5.12).</p>
<p>For Visual – Option 1 should be green as there is no change to current height approval and Option 5 should be at least orange because it represents a 2.5m height increase.</p>	<p>Option 1 resulted in a yellow circle because even though there is no height increase from the existing approved contours, there would be a change from what is currently visible. There is still a visual impact from the Site on the surrounding community that would need to be mitigated through measures such as vegetation and/or fencing (see Section 5.6.1). In response to comments on the ranking of the "Effects of Views of the Facility" criteria, Terrapure modified the comparative evaluation, changing Option 5 from yellow (low negative net effect) to orange (medium negative net effect) (see Section 5.12).</p>
<p>On the ranking summary for Visual "Effect of 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).</p>	<p>Option 1 resulted in a yellow circle because even though there is no height increase from the existing approved contours, there would be a change from what is currently visible. There is still a visual impact from the Site on the surrounding community that would need to be mitigated through measures such as vegetation and/or fencing (see).</p>
<p>In the "Economic" component. See the comments in 1 above, these Orange Circled options are merely taken from the point of view of Terrapure and its profit/operation viability and not the views of the current residents, and future ones we would expect, living by the Dump.</p>	<p>Profit/operation viability is not considered as part of this criteria. As stated above, the details of the economic analysis can be viewed in greater detail in the Draft Alternative Methods report. However, to provide some brief context, the results of the economic analysis were based from a background report completed by RIAS on the Economic Impacts of the SCRF. This report, which was included in the approved Terms of Reference, highlights the economic benefits to the City of Hamilton and surrounding community, including detailed discussions on job duration, total GDP that the Facility will contribute based on duration of landfill operations. It is these factors on which the net economic effects assessment were based. Options 3, 5 and 6 would all result in the greatest economic benefits to the City of Hamilton and surrounding community (see Section 5.8). Profit/operation viability is not considered as part of this criteria.</p>
<p>In the "Surface Water Resources" component there is really no need for any of the options to not be coloured Yellow as all should be Green as there is a 72" (6 foot) storm sewer system recently installed along Upper Centennial that runs along the side of the property. Any discussion on the water management ponds, which are about the size of 4 or 5 Olympic sized pools, as having an effect on the Options is meaningless. This new storm sewer system can be utilized.</p>	<p>The City and MECP require surface water runoff (i.e. stormwater) to be treated onsite before it is discharged to a storm sewer or watercourse. As a result, a stormwater management pond needs to be accommodated onsite to treat stormwater before it is discharged to a sewer. Currently, stormwater is discharged to an existing storm sewer to the north of the Site under First Road West following treatment at the stormwater management pond.</p>



Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>The "Surface Water Existing Conditions Report" in draft form makes no mention of the 72 " sewer system trunk passing by the property and this needs to be factored into any water management criteria on the options. In the "Design & Operations" component, The Stormwater management line should all be Green circles as the 72" sewer trunk runs right beside the property.</p>	
<p>Design & Operations – Alternative No. 1 is red for the criteria "Potential to Provide Service for Disposal" meaning Terrapure's ability to maximize revenue. This should be orange or yellow as all options allow for Terrapure to increase revenue from the existing Site license.</p>	<p>The criteria "potential to provide service for disposal" is related to the ability for Terrapure to provide 3,680,000 m³ of additional disposal capacity for post diversion solid, non-hazardous industrial residual material. The differences in the rankings reflect that the different Options provide different amounts of disposal capacity. Options 3, 5 and 6 would all result in the greatest disposal capacity (see Section 5.10).</p>
<p>In the "Transportation" component, there is no consideration given to the length of time frames (years) for the traffic to be in area. The various options have short to very long terms of life for the Dump, there needs to be a table line added on this page with a Green Circle going under the shortest time frame option and a Red Circle under the longest time option with the varying colours in between. For the transportation component, Option 1 should be green and Option 5 should be red to reflect closure dates.</p>	<p>Time frame (years) was considered as part of the existing conditions and alternative methods evaluation, as both current and future traffic counts were included in the analysis. Specifically, the potential current and future impact on traffic at intersections surrounding the SCRF as a result of trucks coming to and from the SCRF were evaluated. Since the number of trucks per day allowed to the Site will not change with any of the options, there is no increased potential for collisions or increases to level of service at any of the intersections. Therefore, none of the Options present effects to Traffic (see Section 5.7.1).</p>
<p>The Rationale comment should include the words at the start of the sentence " The above colour coding favours the best business case for Terrapure's profitability"</p>	<p>Only one of the criteria in the "Design and Operations" component is related to the option's ability to provide the additional capacity being sought. The Terms of Reference does state that this The purpose rationale for the Undertaking was determined, in part, by the economic opportunity available to Terrapure (see Section 3.3). We will consider ways to make this more transparent in future open houses.</p>
<p>Please review Table 4.1 Comparison of Alternatives in the Conceptual Design Report as I think there may be an error. Under Height Relative to Surrounding Area for Green Mountain and First Road it shows 192 MASL whereas I believe the surrounding land in those areas are 201 MASL and 204 MASL respectively, not 192 MASL shown. 192 MASL is the elevation for the bottom of the original quarry. Potential Effects on Land Use and the Economic Environment</p>	<p>The existing road elevation at the intersection of Green Mountain Road West and First Road West is approximately 192 mASL. The proposed road works to be carried out in this area will maintain the existing grades at approximately 192 mASL.</p>
<p>Consider the large population expansion within the area and of the sensitive land uses of the surrounding area because of rapid population growth.</p>	<p>The potential impact of the proposed Undertaking on the existing and future land uses, including planned and approved new development, was assessed as part of assessment of the alternative methods and impact assessment under the Built Environment and Economic Environment categories (see Sections 5.6, 5.8, 6.4 and 6.6).</p>
<p>Would like assurance that the MECP guidelines for distances from the landfill are respected within the decision for the Site.</p>	<p>The proposed capacity increase was designed in accordance with minimum 30 m buffers in accordance with O.Reg 232/98, which outlines design guidelines and considerations for property boundary setbacks and buffer zones (see Section 6.1.1).</p>
<p>Provide more specifics to claims of \$28 million/yr in total economic activity and \$18 million/yr in GDP. Need to be specified and quantified. Interest in learning more about the claims for economic benefits and GDP as a result of the SCRF.</p>	<p>The details regarding economic claims of the SCRF are detailed in Appendix A – Economic Impacts of the SCRF of the Supporting Document #1: Purpose and Description of and Rationale for the Undertaking.</p>
Potential Effects on Visual	
<p>Would like to see a comprehensive landscape plan for the beautification of the boundaries at the site for viewing and public comment at the next Open House (or sooner online).</p>	<p>Potential visual screening measures, such as fences, berms and tree plantings, were presented at Open House #3 for comment. Specific screening techniques will be developed further during detailed design to mitigate the visual impact from the surrounding community (see Section 6.4.1).</p>
<p>Consider the visual impacts on the landscape. Concern with additional height increase of some of the proposed options and the visibility from surrounding community viewpoints. Opposition to the height increase.</p>	<p>The visual effects of each of the options were considered as part of the evaluation, which included consideration of height increases. The preferred option (Option 5) results in a height increase of 2.5 m. The height increase will result in slight view change to the Facility in all directions. However, the application of additional visual screens will mitigate the view. Application of visual screening and vegetation would mitigate the views and result in low effects (see Section 5.6.1). Specific screening techniques, such as fences, berms and tree plantings, which mitigate visual impact and noise will be developed further during detailed design to mitigate the visual impact from the surrounding community (see Section 6.4.1)</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.</p>	<p>Specific screening techniques will be developed further during detailed design and will be tailored to site conditions and anticipated visual impact from surrounding vantage points. Where possible, native vegetation will be used.</p>
Potential Effects on Air Quality and Odour	
<p>Consider the impact of odour permeating the surrounding area depending on the direction of the wind / Concern the smell on the surrounding community from the Site</p>	<p>The impact assessment for odour considered This historical and future model predictions of wind speed and direction (see Section 6.3.4).</p>
<p>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.</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. 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. 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>



Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

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	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. See Section 6.3.4 and the Air Quality Impact Assessment Report in Appendix J.
Provide more detail around the 2.5 µm particulate matter size fraction (PM2.5) results from the Air Quality Impact Assessment Report.	The Air Quality Impact Assessment assessed PM _{2.5} for the existing and four proposed operational phases of the project. For each phase, anticipated vehicle traffic and material handling was modelled. In addition, a cumulative effects assessment was carried out, by adding the estimated background PM _{2.5} 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. See Section 6.3.4 and the Air Quality Impact Assessment Report in Appendix J.
Wonder whether the reference to on-site monitoring of PM ₁₀ is a plan to do a one-off monitoring exercise or whether there is an ongoing commitment to undertake PM monitoring along the Facility fenceline - something that should be happening now anyway. Proponent should also be required to monitor for PM2.5 -now confirmed as a known cause of lung cancer in humans.	Under its Approval to Proceed (1996), the SCRF implemented an ongoing PM ₁₀ monitoring 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 ₁₀ monitoring at the Met One BAM 1020 monitor located at the east property line, downwind of the Facility operations. PM ₁₀ 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. PM ₁₀ incorporates PM _{2.5} , 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 _{2.5} concentrations in the area. See Section 6.3.4 and the Air Quality Impact Assessment Report in Appendix J.
Add PM monitors around the SCRF.	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 MECP, and the City of Hamilton.
Include Isopleth Maps in the Air Quality Impact Assessment Report	Isopleth maps provide information regarding continuous distribution over an area and are often used to depict elevation, temperature, rainfall or other data. During the Terms of Reference, the MECP reviewed the Air Quality technical work plan and isopleth maps were not requested or required to be included in the Impact Assessment Report. The MECP bases their assessment of a project on the maximum predicted concentrations of airborne contaminants, regardless of where these might occur off-site (including at the fenceline). See Section 6.3.4 and the Air Quality Impact Assessment Report in Appendix J.
Potential Effects on Natural Environment	
Consider the future impact of the Facility on animal populations.	The potential impact of the proposed capacity increase on animal populations was assessed as part of the assessment of the alternative methods and the impact assessment (see Sections 5.5.3 and 6.3.3).
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?	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 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 surface water on Site. Current contaminants of concern in the stormwater management pond include total suspended solids (TSS) and phosphorus. TSS is removed in the pond and should not affect downstream waterbodies and wildlife, but phosphorus levels are known to be elevated in both on-Site and off-Site locations. 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. 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 the stormwater ponds pose a risk for wildlife in and around the stormwater ponds under the existing or proposed scenarios.
The text states that 'Temporary impacts during construction and operation to vegetation, wildlife habitat, aquatic habitat, and aquatic biota will be minimized.' The text goes on to read that the proponent will 'Conduct any vegetation removal outside of the breeding bird window'. Does this mean that the proponent will replace all lost breeding bird habitat?	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 Natural Resources and Forestry (MNRF) and will file a <i>Notice of Activity</i> to ensure the protection of species and habitat (see Section 6.3.3).
Consider natural beauty of the escarpment.	The proposed capacity increase is not anticipated to have an effect on the Niagara escarpment.
Potential Effects on Traffic	
Consider the assessment of the increase in roadway volumes as a result of the activities at the landfill site and assess truck impacts beyond the study area.	The effects of truck traffic were considered as part of the assessment of the alternative methods and impact assessment (see Sections 5.7.1 and 6.5.1).
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?	You are correct. Truck traffic will continue to enter the SCRF from Upper Centennial Parkway and leave at First Road West turning towards Mud Street, avoiding the need for any truck traffic to Green Mountain Road. Terrapure currently enforces reduced speed limits on-site and encourages drivers to maintain reduced speeds as they exit and will continue to do so.



Table 7.6 Public Stakeholder Comments and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
How much will the project affect the future efforts to make Upper Stoney Creek more valuable and transit friendly?	As part of the evaluating alternative methods, the potential effect on traffic, approved/planned land uses, and the economic benefits to the City of Hamilton and local economy were.
Potential Effects on Human Health	
Concern for human health.	Human Health was considered as part of the assessment of the alternative methods and impact assessment. The results of the comparative evaluation indicated that there would be a low potential for adverse effects with the continuation of the existing Site. Best Management Practices, ongoing monitoring and augmented Impact Management Measures would be used to reduce or eliminate any impacts (see Section 6.6).
Concern with air quality, dust particulate blowing, and long term exposure on human health and belief that the health studies are inconclusive because there has not been enough time to determine the health risks.	Air quality (including dust) and human health were considered as part of the assessment of the alternative methods and impact assessment (see Section 6.6). With regards to current operations, Hamilton Public Health has reviewed health and environmental monitoring data that Terrapure has provided and confirmed that the SCRF does not pose a risk to the community.
Heritage Green Community Trust	
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 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?	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 approval, these contributions would only continue for approximately 1 to 2 more years.
The financial contributions are not as important as the cost to the community.	Comment noted.
Closure Planning	
Interest in what the closure plan will include. Ideas presented included gardens, ski hill, small restaurant, and golf course.	In accordance with O. Reg. 232/98, Terrapure must develop a closure plan when permitted capacity gets to a certain level (90%) or within two years prior to closure. 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. These A recommendations will be provided to and discussed with the Closure Planning Advisory Committee, established outside of the EA process, will consult the community on potential post-closure uses.
Operations of the Existing SCRF	
Skeptical of the current operations and proposal following contacting the Ministry of the Environment, Conservation and Parks and the City of Hamilton and still don't have any clear answers on the impacts of the landfill in 30 years.	Terrapure's Stoney Creek Regional Facility operates in compliance with regulatory requirements.
Concern about acceptance of hazardous material.	The SCRF does not accept hazardous materials.
Concern with odour coming from the existing SCRF.	The SCRF is only permitted to receive non-hazardous residual material from industrial, commercial and institutional sources. The SCRF is not permitted to receive any compost or garbage that decomposes and has the potential to cause odours. Often, when inquiries related to odour are received and investigated, it is determined that they are associated with other activities happening nearby. A community response line (905-561-0305) is established for residents to notify Terrapure of odour concerns. Residents may also call the Ministry of the Environment, Conservation and Parks at 416-325-3000 or 1-800-268-6060. This complaint protocol will continue (see Section 6.3.4)
Concern with existing visual aesthetics of the Site. Comments about the current black fencing, damage from the wind storm, and lack of beautification around the SCRF.	In response to comment received during the EA, additional visual screening measures were installed around the SCRF. Berms have been heightened to increase screening around Site access points and fencing has been installed on the west side of the Site. Additional screening techniques, such as fences, berms and tree plantings, which mitigate visual impact and noise will be developed further during detailed design to mitigate the visual impact from the surrounding community (see Section 6.4.1).
Concerns with current truck traffic (i.e. noise, messy).	Presently, the Site is permitted to receive up to 250 trucks per day; however, the average daily number received is about 70-80 trucks.
Request to post all current provincial permits on the project website.	In response to this comment, the following documents were added to the document library section of the project website: Waste Disposal Environmental Compliance Approval Stormwater Management Environmental Compliance Approval Permit to Take Water Quarrying Permit
Terrapure has exceeded the final approved height of the landfill by 2.5 m in anticipation of getting approval from the Ministry for Option # 5	Terrapure uses temporary stockpiles during the construction of the liner system. This is not related to the Environmental Assessment for the proposed capacity increase.
Terrapure has exceeded the approved capacity of the SCRF.	The SCRF has not exceeded its approved capacity and is operating in accordance with its Environmental Compliance Approval.
More of the testing and monitoring should be done by third parties.	Terrapure employs a mix of in-house and 3rd party monitoring of the operations of the SCRF. Each year, Terrapure develops an Annual Report outlining how we are meeting our Environmental Compliance Approvals. The Annual Report is issued to the MECP and City of Hamilton.
Concerns about ammonia plume beneath residential development to the north of the Site.	In 2010, MTE Consultants Inc. conducted a Landfill Impact Assessment (LIA), for the Empire lands to the north of the Stoney Creek Regional Facility. It was determined that as an Impact Management Measures for the elevated ammonia levels in the groundwater as a result of the Closed Landfill (to the west of the SCRF, across First Road West), a 1m of clay around basement foundations would be applied from the Operating Landfill, as a conservative measure.

7.8 Peer Review

A Peer Reviewer was retained for the SCRF EA process with the objective of providing an independent review of the technical information developed as part of the SCRF EA. The peer reviewer assisted in identifying opportunities for improvement based on design standards, best management practices, regulatory requirements, and other relevant recommendations related to engineered landfills and their environmental control systems.

Dr. R. Kerry Rowe, the Peer Reviewer, is a Professor in the Department of Civil Engineering at Queen's University, and the Canadian Research Chair in Geotechnical and Geoenvironmental Engineering. In Ontario, Dr. Rowe has been involved with numerous landfills, including sites in Halton, Grimsby, Vaughan, Hagersville, Kirkland Lake, Flamborough, Tiny Township, Warwick, Innisfil, Peel, Port Colborne, Cambridge, and Canborough.

Dr. Rowe has also been involved with the Development of Design Standards for Ontario Landfills for the MECP, making him well-suited for the role of Peer Reviewer for the noted technical aspects of the Terrapure SCRF EA.

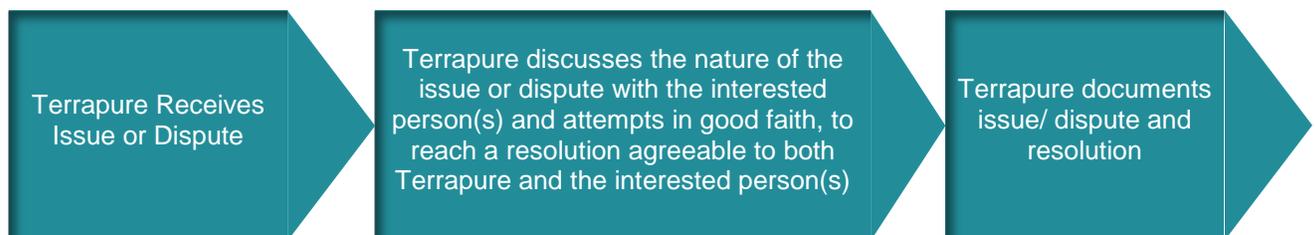
The Peer Reviewer had the opportunity to review and provide recommendations at each key milestone of the SCRF EA process including reviewing the following documents:

- Draft Facility Characteristics Report
- Draft Geology and Hydrogeology Impact Assessment Report

The details of Dr. Rowe's review and recommendations can be found in **Section 6.9**.

7.9 Issues Resolution Strategy

Terrapure implemented the issues resolution strategy proposed in the amended approved SCRF EA ToR during preparation of the SCRF EA. The issue resolution process was implemented to ensure that disputes were effectively and appropriately dealt with. In the event that a mutually agreeable resolution does not occur, by the time of formally submitting the SCRF EA, Terrapure will refer the matter to MECP. The following summarizes the issue or dispute process followed by Terrapure during the preparation of the SCRF EA:



7.10 Review of the Draft Environmental Assessment

In accordance with the Approved Amended SCRF ToR, the Draft SCRF EA Report was made available to review agencies, Indigenous communities, and the public for review and comment prior to formal submission of the SCRF EA to the MECP. The Draft EA Report was available for review from August 31 to October 24, 2018, with comments requested by the end of the seven (7) week period.

7.10.1 Availability for and Notification of the Review of the Draft SCRF EA

The Draft SCRF EA Report was available for review on the project-specific website (www.terrapurestoneycreek.com) and at the following locations:

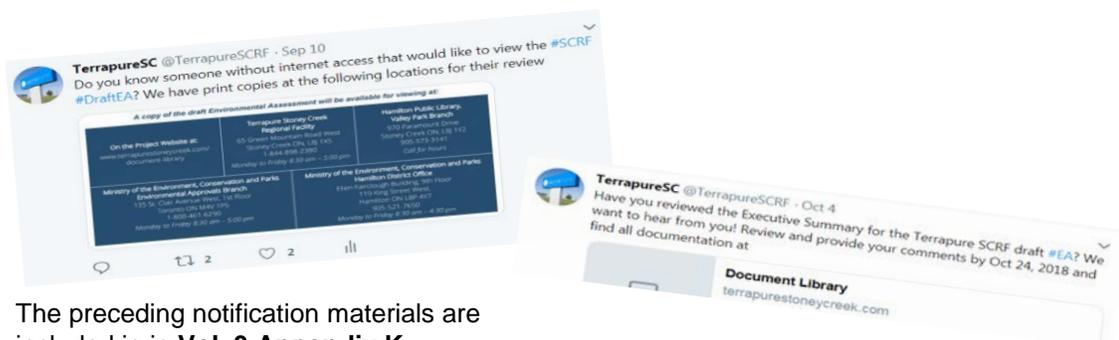
- Terrapure's Stoney Creek Regional Facility Administrative Office (65 Green Mountain Road).
- City of Hamilton Valley Park Library.



- Ministry of the Environment, Conservation and Parks West Central Region Office (Hamilton).
- Ministry of the Environment, Conservation and Parks Environmental Assessment and Permissions Branch (Toronto).

Notifications of the availability of the Draft SCRF EA Report for review was provided through the following means:

- Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Doug Conley (Ward 9), Maria Pearson (Ward 10), Judi Partridge (Ward 15), Chad Collins (Ward 5).
- Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee.
- Emailing of the Draft EA Report Notification to all review agencies and Indigenous communities, on August 17, 2018 in advance to the release of the Draft EA Report.
- Mailing or emailing of the Draft EA Report to all review agencies and Indigenous communities, on August 31, 2018.
- Direct mailing and emailing to SCRF EA contact database including City of Hamilton Council, members of the public and property owners adjacent to the SCRF on August 31, 2018.
- Advertisement in the Stoney Creek news on August 30, 2018 and Hamilton Spectator on August 31, 2018.
- Posting on the SCRF EA project website on August 31, 2018.
- Distribution of flyers to approximately 8,000 addresses within the SCRF Study Area using Canada Post's unaddressed admail between August 29-31, 2018.
- Mobile sign along Upper Centennial Parkway with details for the Draft EA Report from September 4 to September 18, 2018.
- Reminder emails distributed to Agencies and Indigenous Communities about the SCRF Draft EA on October 11, 2018.
- Reminder email distributed to those in the project-specific contact database about the SCRF Draft EA on October 11, 2018.
- Notices on the SCRF website and advertised on SCRF Twitter and Facebook accounts were published on throughout the 7-week review period between August 31 – October 24, 2018.
- Individual follow up emails and voicemails with Indigenous Communities following closing of October 24, 2018 review period ending to ensure SCRF Draft EA materials were received and request to complete an acknowledgement form that they had no comments on the SCRF Draft EA. Terrapure heard back from MNCFN and Six Nations.
- Individual follow up emails and voicemails to GRT following closing of October 24, 2018 review period ending to ensure SCRF Draft EA materials were received and request to complete an acknowledgement form that they had no comments on the SCRF Draft EA. All GRT completed and returned the acknowledgment letter.



The preceding notification materials are included in in **Vol. 3 Appendix K**.



7.10.2 Consideration of Comments Received on the Draft EA

A total of eight (8) comment submissions on the Draft SCRF EA Report were received from review agencies, Indigenous communities, and the public. With this in mind and as discussed in **Section 7.4.3.4**, a webinar was held for all review agencies on October 3, 2018, to present an overview of the Draft EA Report, review initial comments on the Draft EA, and provide details for review timelines and next steps for the EA. In addition, following receipt of comments from the City of Hamilton and MECP, face to face meetings and conference calls were held with these agencies to review their comments and discuss Terrapure's proposed responses.

The comments received through the 8 submissions and how they have been considered by Terrapure in finalizing the SCRF EA Report are summarized in a series of tables by participant group in accordance with Section 4.3.7 of the MECP Codes of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014):

- **Table 7.7** summarizes the comments received from review agencies and how they were considered by Terrapure (organized by agency).
- **Table 7.6** summarizes the comments received from Indigenous communities and how they were considered by Terrapure (organized by Indigenous community).
- **Table 7.8** summarizes the comments received from the public and how they were considered by Terrapure, which have been arranged by in order of the Final SCRF EA Sections.

As part of considering comments received, Terrapure issued individual responses to those who provided comments on the Draft SCRF EA Report. The issues responses were either in the form of a formal letter or email correspondence to how the comments were received by Terrapure.

All correspondence received on the Draft SCRF EA Report and responses letters provided for agencies, Indigenous communities, and public stakeholders can be found in **Vol.3 – Appendix N**.



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
Hamilton Conservation Authority	2018-11-06	Email	The attached email from me in August is our last comments on this issue. We noted we had no further issues with the submission but noted required for storm water management at design stage.	Thank you for letting us know you are satisfied and have no further comments. We will provide you the Stormwater management plan when we are at that stage.	2018-11-09	Email
City of Hamilton	2018-08-31	Email/ Letter	Our understanding is that updated (complete) Draft Environmental Assessment material will be released shortly. However, we will be unable to provide a fulsome review and report regarding these forthcoming updated documents in time for the next and final Planning Committee Date – Tuesday, September 18th, 2018, due to the upcoming municipal election. As such, the attached letter also forms Appendix A to our update report going forward to Planning Committee on September 18th. A hard copy of the attached letter will be sent via mail shortly.	Comment noted.	2018-09-14	Letter
			<p>Real Estate</p> <p>Based on the response from the consultant, the proponent does not intend on providing the requested land economic and property tax impact analysis and information requested until a later date - with the release of their actual Draft EA document. We cannot comment further on the material provided except to acknowledge that they intend to address the request, albeit later.</p>	<p>As requested by the City, Terrapure has completed and documented the research into potential effects to the City of Hamilton property tax base within proximity to the Stoney Creek Regional Facility (SCRF). This assessment has been included in the Draft EA Report (dated August 31, 2018).</p> <p>Found in Section 7, Pages 19-22 of the Draft EA Report.</p>		
			<p>Planning – Noise</p> <p>Please provide the Stamson sheets which were used to calculate the ambient (background) sound level at POR1, 3, and 4. The Detailed Impact Assessment report refers to the sheets being attached as Appendix 1, but we cannot locate them. The report indicates that the ambient (background) sound level at POR1 will be 60 dBA, accounting for future residential development. The report identifies 60dBA as the sound performance limit, based on the ambient sound level. The predicted future sound levels at POR1 resulting from the landfill are 60 dBA, just meeting the performance limit. Staff therefore need to review the Stamson sheets to confirm that the ambient sound level was calculated correctly and are based on the appropriate traffic volumes. If the ambient sound level is actually below 60dBA, this would result in a need for noise mitigation requirements. Therefore, this review is needed. While it appears that GHD has addressed staff's remaining comments, without an updated Noise Impact Assessment it is not possible to confirm.</p>	<p>Thank you for highlighting this. The Road Traffic Modelling STAMSON output sheets have been added as Appendix B of the Noise Detailed Impact Assessment Report and this report has been reissued. The updated report is available on the project website.</p> <p>Found in Appendix B of the Detailed Noise Impact Assessment</p>		
<p>Source Water Protection</p> <p>Source Water Protection recommends that any available domestic water quality downgradient from the property be sampled to demonstrate the level of off-site impact originating from landfill operations. If offsite groundwater quality can not be obtained, Source Water Protection and Cambium recommend that Terrapure collaborate with neighbouring property owners to verify that no offsite impacts are observed owngradient, and to verify their conceptual model.</p> <p>The applicant should provide methodologies as to how RUC trigger values were calculated in their original submission. As a result, Source Water Protection and Cambium cannot verify the validity of the RUC calculations. Upon review of the Design and Operations as well as the Facility Characteristics Report, details on compatibility testing other than puncture risks were not found. The applicant should provide specific details as per Cambium's request.</p> <p>GHD shall provide details of this analysis to the satisfaction of Cambium and Source Water Protection, as they were not provided in GHD's response. A number of groundwater monitoring wells along the downgradient property boundary show exceedances of Ontario Drinking Water Quality Standards, exceedances of Hamilton's Sewer Use Bylaw, or both.</p> <p>Parameters such as sulphate, boron, pH, and uranium exceed such standards. As a result, if construction dewatering is required for future development downgradient of the operating and/or closed landfill (25T-201301, 25T-201510, 25T- 201601, 25T-201612, 25T-201611, 25T-201701), these applicants should be aware that groundwater quality may be compromised, and special agreements with Hamilton</p> <p>Water and/or the Ministry of Environment, Conservation and Parks may be required.</p> <p>Refer to attached formal peer review of the submitted hydrogeological report from Cambium Inc.</p>	<p>GHD concurs that downgradient private water supply wells, if available, should be included in the site monitoring program. However, as described previously, the identified private water supply wells are no longer available for sampling. In accordance with Source Water Protection's request, GHD recommends that a survey of properties downgradient of the SCRF should be undertaken in order to identify additional private wells available for inclusion in the future groundwater monitoring program.</p> <p>The original trigger criteria were developed in 1996 by Gartner Lee Limited and were based on two factors. The first factor, deemed the most stringent, was based on MOEE Policy B7: The Reasonable Use Policy. The calculation of Reasonable Use Criteria (trigger criteria) was based upon background groundwater quality, the Ontario Drinking Water Objectives (ODWO), and a multiplication factor (0.25 for health based or 0.5 for non-health based ODWOs). Background concentrations were selected as the highest value reported in the available database at the time (1990 – 1996) for each representative location, ignoring data points considered to be anomalous and assuming a concentration of zero where parameters were reported below detection limits.</p> <p>The second factor accounted for natural upgradient groundwater quality at the Site being notably poor. Parameters such as iron, chloride, sulphate, manganese, and sodium were present in concentrations above of their respective ODWO in groundwater upgradient of the Site. Policy B7 stipulates that no additional loading of these parameters should occur at the downgradient site boundary.</p> <p>Concentrations of many of these parameters are lower in leachate at the Site, thus, leakage into the underlying aquifer would cause dilution and decreases in concentrations. For this scenario, the upgradient groundwater quality was used as the trigger criteria. The available database (1990-1996) was used to determine upgradient water quality and the maximum reported concentrations at each individual location were used as the trigger criteria.</p>					



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
				<p>Gartner Lee Limited recommended that as water quality changes were observed over time, the trigger criteria should be reassessed and re-calculated annually. Additional water quality data has been added to the database and trigger criteria have been updated annually to reflect those changes, whenever appropriate. For the purposes of the Geology and Hydrogeology Impact Assessment, the trigger criteria from the 2016 Annual Monitoring Report (Jackman Geoscience, 2017) were used as the basis for downgradient groundwater quality compliance comparison. GHD does not have access to the calculations used to update these trigger criteria. As there is now a substantial database of groundwater quality accumulated for the site monitoring well network, GHD recommended in the 2017 Annual Monitoring Report that trigger criteria should be reassessed every 3 to 5 years (as opposed to annually) to account for potential on-going changes to water quality. In accordance with this recommendation, it is intended that trigger criteria will be re-calculated for the 2019 Annual Monitoring Report using the methodology described above.</p>		
			<p>Public Health Hamilton Public Health Services (PHS) has reviewed discussion documents "Stoney Creek Regional Facility Environmental Assessment - Human Health Assessment Review Workplan" (Intrinsic Science Consulting, 2018), as well as the Community Health Assessment Review (2017 Annual Monitoring and Operations Report, Appendix E - Intrinsic Science Consulting, 2018).</p> <p>Other supplemental technical papers included but not limited to as part of the Draft Environmental Approval Process - Chapter 6 "Detailed Impact Assessment of the Undertaking" (GHD - 2018) have also been reviewed. PHS has no objection to the comparative evaluation chosen to identify the "recommended landfill footprint" - Option 5. No information reviewed within the above-referenced documents suggests air quality or leachate pose an unacceptable risk to the health of the surrounding community.</p> <p>PHS recommends that as the EA process advances, all requirements set forth in the Environmental Compliance Approval for the SCRF are abided by. As well, environmental best management practices should be maintained.</p>	<p>Thank you for your comment. We agree with the recommendation put forward from Public Health Services, that as the EA process advances, all requirements set forth in the Environmental Compliance Approval for the SCRF will be met and best management practices will be maintained.</p>		
			<p>Finance Current terms and conditions of the existing Compensation Agreements should be revisited and revised as part of any approval to changes to the existing ECA.</p>	<p>We understand that, according to Minutes from the Planning Committee meeting on August 14th, the Terrapure Stoney Creek Regional Facility EA – Compensation Agreement, was TABLED until a decision has been made by the Province respecting Terrapure's Environment Assessment process.</p>		
			<p>Commitments & Monitoring The Commitments and Monitoring Chapter does not specify exactly what type of screening feature or technique will be utilized at the various vantage points to mitigate visual impacts of the facility and operations.</p>	<p>A variety of screening options have been proposed as part of the SCRF EA. Final details on the screening feature(s) will be carried forward and determined during the subsequent ECA amendment process as the detailed Design & Operations report is prepared. Terrapure will update Chapter 8 to include a commitment with respect to finalizing screening measures as part of future approvals.</p> <p>Found in Section 6, pages 28-30 of the SCRF Draft EA Report.</p>		
	2018-10-22	Email/Letter	<p>The City of Hamilton provided the following comments on the Draft SCRF EA via letter which were subsequently discussed at meetings on December 6, 2018 and December 20, 2018.</p> <p>Planning and Economic Development, Planning Division In the Traffic Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated August 21, 2018, the summary of 7.1 Potential Effects on Traffic, states that with the 2023 future conditions intersection analysis, the operational impact is expected to be negligible. The current maximum allowable vehicles today is 250 vehicles, whereas the site currently receives on average 100 vehicles per day. The increase to the permitted 250 vehicles is not considered to be negligible or minor, and additional rationale and analysis should be provided to ensure that adequate intersection operations are maintained.</p>	<p>Section 7.1 states that the operational impact of the increase to the maximum allowable/ permitted 250 vehicles per day is negligible, not that the increase to the permitted 250 vehicles per day is negligible or minor.</p> <p>The 2023 Future Background volumes are forecasted volumes to the 2023 horizon year, with any SCRF truck volumes removed from the dataset. The 2023 Future Total volumes include the addition of the maximum permitted 250 trucks per day (or 25 two-way trucks per hour) to the 2023 Future Background forecasts.</p> <p>The results of this analysis do not indicate any operational impact associated with the added SCRF truck traffic – even if it were to increase from its current average to the maximum permitted volume. For example, the most noticeable impact the SCRF truck traffic has is at the intersection of First Road West at Mud Street, during the p.m. peak</p>	2019-01-07	Email/Letter



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>The Land Use and Economic Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated August 31, 2018, does not list an expert such as a Land Economist on the Land Use Economic Study Team. It is important to have an expert involved in studies that relate to property valuation and impacts on the tax base.</p>	<p>hour, in which the reported 95th percentile eastbound left-turn queue increases by 14 metres, or approximately 2 vehicle lengths; this increase is considered nominal.</p> <p>During the ToR, the City recommended that Terrapure and its consultants undertake some research in this matter (impact of landfill developments on property values) and consult with an expert such as a Land Use economist. It was also suggested that the research should also include an assessment of the impact on the City's assessment base. Terrapure responded to the comment on the Draft ToR that we would work with the City of Hamilton during the SCRF EA to design a property value assessment and consult with experts – such as a land economist – for implementation during the Impact Assessment of the Preferred Method stage of the SCRF EA.</p> <p>As the City declined the offer from Terrapure to develop a joint methodology during the EA, Terrapure has retained an expert land economist from an economics consulting firm to assess the impact of the SCRF on residences. The results of this assessment are included in Appendix C of the Land Use and Economic Impact Assessment Report (Appendix J-6) and Section 6.2.4.1 of the Final EA Report.</p>		
			<ul style="list-style-type: none"> • With regards to the Noise Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated August 31, 2018, the following comments and questions should be addressed; • The Stamson sheets for the background (ambient) noise calculations for POR 3 and 4 should be provided. • The rationale for using 2023 Traffic data for the calculation of the background sound level at POR 1 should be provided. Is this assuming that houses will not be developed on the north side of Green Mountain until 2023. One of the subdivisions is already registered, so it would appear that development could commence at an earlier date. What is the impact on background noise calculation if traffic data from an earlier date is utilized? • An overview of timing for each of the five Phases of development of the preferred method should be provided, including the approximate timing of when each phase will start and conclude. The noise report Table 6.1 indicates that the noise levels will not exceed the exclusionary limit of POR 1 until Phase 3. • At what point will noise levels be a concern on the north side of Green Mountain Road in relation to the timing of future development, and in relation to existing homes further north? 	<ul style="list-style-type: none"> • The background limits for PORs 3 and 4 were based on the site specific limits as reported in the Facility's 2013 AAR, using the Facility's 2012 Noise Survey. Based on the Facility's 2016 Noise Survey these site specific limits are actually higher than previously reported. Page 6 of the 2016 Noise Survey provides the appropriate site specific limits and includes the supporting Stamson Calculations. The Noise Detailed Impact Assessment Report will be updated in the Final EA Report to include this information. • Phase 3 construction of the Stoney Creek Regional Facility is anticipated for 2023. Prior to Phase 3, the predicted noise impacts to the north of Green Mountain Road are below the exclusionary limits and therefore traffic data from an earlier date will not affect the development's compliance status. In addition, as requested by the Ministry of Environment, Conservation and Parks, the noise modelling will be updated to include additional receptors, specifically by adding a point of reception (POR) to the West. Table 6.1 of the Detailed Noise Impact Assessment Report will be updated to include the approximate timing for the phases of development and will include results of the additional modelling of the additional point of reception. • Noise levels on the north side of Green Mountain road are predicted to exceed the exclusionary limits in 2023 with the implementation of Phase 3. However, our analysis predicts that the Facility will be in compliance with the Ministry of Environment Conservation and Parks (MECP) applicable performance limit. The existing noise levels at the receptors north of Green Mountain road will be calculated based on current traffic volumes for comparison purposes 		
			<p>Public works Department, Source Water Protection</p> <p>The following comments are provided regarding the Geology and Hydrogeology Impact Assessment Report and the Design and Operations Detailed Impact Assessment (Draft for Discussion), both prepared by GHD, dated August 31, 2018:</p> <ul style="list-style-type: none"> • The wells providing drinking water to the surrounding properties should be surveyed and included in the groundwater monitoring program. • An attempt should be made to re-establish a relationship with those residences who have historically refused to participate in the monitoring program. • An attempt should be made to locate and include Private Well 1 into the monitoring program, provided it has not been decommissioned. • The RUC trigger calculated should be updated annually with new data. • The wells located farthest off-site (monitoring wells 69 and 73), as identified in the most recent annual monitoring program should be included in the sampling program. • The groundwater quality results of these wells should be included in the RUC trigger calculations. • Clay liner leachate compatibility testing should be provided. It is understood that it will be provided before Final Environmental Assessment submission. 	<ul style="list-style-type: none"> • A survey of surrounding properties downgradient of the SCRF will be undertaken in order to identify private wells providing drinking water, and these wells will be included in the groundwater monitoring program, as applicable. This commitment is included Section 8.1 of the Final EA Report. • Private wells located downgradient of the SCRF will be included in the monitoring program if permission is granted by the property owners or tenants. • An attempt will be made to locate and include Private Well 1 in the monitoring program, provided it has not been decommissioned. • RUC values will be re-calculated for the 2018 Annual Monitoring Report. The SCRF groundwater monitoring program will be conducted in accordance with the recommendations of the MECP to re-calculate RUC values every 3 to 5 years to account for variability in background groundwater quality over time. As RUC values haven't been re-calculated in recent years, RUC values will be re-calculated for the 2018 Annual Monitoring Report. This commitment is included in Section 8.3 of the Final EA Report. • Monitoring well nest 73 was decommissioned in July 2005 and monitoring well nest 69 was decommissioned in July 2011. Both well nests were decommissioned in response to property development to the south of the SCRF. GHD recognizes that these monitoring well nests were presented on the figure illustrating the monitoring 		



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			<ul style="list-style-type: none"> Clay liner hydraulic performance under the range of pressures associated with the range of waste depths proposed should be assessed. It is understood that it will be provided before Final Environmental Assessment Submission. 	<ul style="list-style-type: none"> well network (Site Plan). These wells should be shown as historical/abandoned. The Site Plan will be modified accordingly. Terrapure concurs that water quality from background/upgradient monitoring wells is appropriate for use in RUC trigger value calculations. Accordingly, Terrapure will review available monitoring wells and identify which wells are most appropriate for representing background groundwater quality for the purposes of future RUC trigger value calculations. Compatibility testing carried out as part of the original EA indicated that the clay was mineralogical stable and that permeability was not impacted due to contact with leachate. Additional compatibility testing carried out in 2018 on samples of the liner clay and landfill leachate again indicated that the leachate did not affect the index properties of the soil, and that there was limited potential for the leachate to degrade the permeability of the liner. Results of this testing will be provided before the submission of the Final Environmental Assessment. Both in-situ and laboratory hydraulic conductivity testing are undertaken during the construction of the clay liners. These tests have been carried out over a range of operating conditions (e.g., cell pressure, head pressure, effective consolidation pressure) that are representative of both the current and expanded landfill. Results of this testing have shown that hydraulic conductivity values below the required 5×10^{-8} cm/s are consistently being achieved. Results of this testing were provided to the City via email on November 23, 2019. 		
			<p>Planning and Economic Development Department, Transportation Transportation Planning would like to reiterate that they will not authorize the use of Green Mountain Road as it is not the most direct delivery Route and is not identified on the truck route map, and is therefore subject to enforcement.</p>	<p>As stated in the Traffic Detailed Impact Assessment Report, (Section 6.7, page 10), SCRF truck traffic will not utilize Green Mountain Road. In addition, the Environmental Compliance Approval (ECA) for the operation of the site does not permit truck use on Green Mountain Road.</p>		
			<p>Healthy and Safe Communities Department, Public Health Services At this point, Public Health Services staff has no formal detailed comments as it deals with the environmental technical reports. However, future comments may be expected upon or review of the modified Human Health Risk Assessment Report (HHRA). Further, Public Health Services is requesting the inclusion of a Pest Control Plan in the Final Environmental Assessment.</p>	<p>The current Pest Control Plan for the SCRF building was provided to the City via email on November 23, 2019 and is included as Vol 3. - Appendix M of the Final EA Report. As noted in our November 30, 2018 email, there is no specific Pest Control Plan for the landfill. As part of the currently approved Environmental Compliance Approval for the SCRF, countermeasures for vectors and vermin were confirmed to be not warranted because the waste stream does not include putrescible materials and thus bird and rodent problems will not occur. Over 20 years of operations of the SCRF have confirmed that pest control for the landfill is not a concern. With this in mind, since the proposed expansion will not alter the waste steam received at the SCRF, we do not expect that one will be warranted going forward. We understand from your December 3, 2018 email, that the City of Hamilton Public Health approves the pest control plans that are currently in place for the existing structures and supports the Environmental Compliance Approval for the SCRF whereby one is not is warranted for the landfill itself.</p>		
			<p>Corporate Services Department, Legal Services All sections dealing with the compensation agreements (including 4-105, 5-54, 6-38, 7-16, H43, APP J-15) should be amended to explicitly confirm that the Agreements with the City of Hamilton and Heritage Green Community trust will remain in force and the obligations resulting therefrom will continue irrespective of the EA process. All references to compensation agreements should be revised to confirm the terms will be reviewed should the proposed undertaking and changes to the ECA be approved.</p>	<p>All references to the compensation agreements will be amended to explicitly confirm that the Agreements with the City of Hamilton and Heritage Green Community trust will remain in force irrespective of the EA Process and that the terms will be reviewed should the proposed undertaking be approved. We understand that, according to Minutes from the Planning Committee meeting on August 14th, the Terrapure Stoney Creek Regional Facility EA – Compensation Agreement was TABLED until a decision has been made by the Province respecting Terrapure's Environment Assessment process. Notwithstanding, Terrapure welcomes further discussion with the City on a Compensation Agreement. As stated in our delegation to the Planning committee on September 14, Terrapure is willing to continue the agreements with the Heritage Green Community Trust and the City of Hamilton. We have always been proud of the projects that we have been able to contribute to through the compensation program, and we look forward to continuing to support the community.</p>		



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			<p>Planning and Economic Development Department, Economic Development Division, Real Estate Section</p> <p>The following comments are provided regarding the Land Use and Economic Detailed Impact Assessment Report (Draft for Discussion), prepared by GHD, dated August 31, 2018.</p> <ul style="list-style-type: none"> • A Land Economist should be included on the team. • Examination of the impacts of landfill developments on property values should be completed by conducting research of similar studies in Ontario and North America. There are numerous studies available that use economic modeling and other empirical methods to analyze this impact. Include this examination including references to comparable studies in the EA. • In their response to the City dated August 3 2018, Terrapure indicated that they were collecting and reviewing historical sales records within the 1,500m study area pre- and post-1996 (when the landfill was first developed) to determine the pricing trends. This analysis has not been provided in the draft EA. • The report includes a chart showing average and median house prices in Stoney Creek from 2006 – 2016 only. This does not offer insider into whether property values in the area of the Terrapure site have been depressed since the development of the landfill. If property values in the study area were negatively impacted by the initial development of the landfill, the continuation or expansion of the landfill would likely perpetuate these depressed values. • The discussion of Assessment Factors in the draft EA report does not fully capture the potential impact on property values. • The draft EA report suggests that based on MPACs methodology, a landfill site (a type of 'abutment and proximity' variable_ is one of the 200 variables that determine only 15% of property value. It is Staff's opinion that this is not an accurate way of examining the impact of landfill sites on assessment base. • First, the number of factors that MPAC looks at does not imply that a single variable cannot have a significant impact on assessed value. Second, MPAC assigns all residential properties to market areas, which are further delineated into homogeneous neighbourhoods. Then property sales from a given neighbourhood are used to develop an adjustment for location in that neighbourhood. • If a landfill site has an impact on surrounding property values, this would be reflected in the sale prices in that neighbourhood and the location variable in MPAC's model. • The abutment and proximity variables are meant to show the impact of certain site features on properties that share a common boundary with the feature or are directly/diagonally across the street from the feature. • The abutment and proximity variables alone does not capture the potential impact of a landfill site on property values in the surrounding area. Other elements, such as increased activity/operations at the landfill (visibility), increased truck traffic on surrounding roads, and the stigma associated with landfills, may have a negative effect on property values in the neighbourhood, and this would be reflected in the sales data used my MPAC and the location variable. 	<p>As noted above, Terrapure has retained an expert land economist from an economics consulting firm to assess the impact of the SCRF on residences within the Local Study Area using the following methodology as confirmed and agreed to by City Staff in our November 23, 2018 email:</p> <ul style="list-style-type: none"> • Review of the literature: RIAS Inc. will provide a brief review of recent studies estimating the impacts of commercial development, including landfill sites, on residential property values as measured in terms of both transactions prices and current value assessments (CVA). We will provide an overview of the quantitative methods employed to measure impacts on property values (predominately hedonic pricing approaches), summarize the results of recent studies, and evaluate the applicability of those results to the SCRF assessment. • Changes within the local study area pre- and post- 1996: RIAS Inc. will assess available historical data on transactions prices and CVA, pre- and post-1996. Subject to availability of price and CVA data, our assessment will examine changes in transactions prices and CVA within the local study area (1,500 metres from the SCRF site boundary) pre- and post- 1996 when the SCRF facility was initially developed • Comparison to surrounding neighborhoods: RIAS Inc will compare changes in transactions prices and CVA within the local study area to changes in surrounding, homogeneous neighborhoods outside of the local study area, for residential properties with similar characteristics (age of the property, living area, lot size, etc.) pre- and post- 1996 • Trend analysis: RIAS Inc will compare trends in transactions prices and CVA within the local study area to trends within surrounding, homogeneous neighbourhoods for residential properties with similar characteristics. <p>The results of this assessment are included in Appendix C of the Land Use and Economic Impact Assessment Report (Appendix J-6) and Section 6.2.4.1 of the Final EA Report.</p>		
	2018-12-06	Email/Letter	<p>Cambium Inc.</p> <p>The author should provide a discussion of the sample analysis for optimal water content and Atterberg limits with reference to industry standards or similar studies for compact clay liners.</p> <p>The hydraulic conductivity analysis provided favourable results with the lean clay and sand samples having lower hydraulic conductivities than the silty clay with sand samples as would be expected. The in-situ permeameter tests were corrected for temperature in the field and provided favourable results though one location was just below the threshold for acceptable hydraulic conductivity.</p> <p>The Authors should provide a discussion of the corrections applied to the field permeameter testing.</p>	<p>In accordance with the ECA, Detailed Design Drawings and Technical Specifications are submitted to the MECP for approval prior to the construction of each Phase of the Base Liner and Leachate Collection System, including specifications for the Compacted Clay Liner (CCL).</p> <p>In-situ testing is carried out on the CCL to ensure that the moisture content throughout each layer of material is as uniform as practicable and controlled to within 1 percent to 3 percent wet of the optimum water content. Atterberg limit testing is also carried out to ensure that the material has a plasticity index of $30 > PI > 12$.</p> <p>Notwithstanding this, the specifications for the CCL are primarily performance based, requiring that a re moulded permeability of 5×10^{-8} cm/s or less be achieved. This is verified using a combination of in situ and laboratory hydraulic conductivity testing.</p> <p>Field permeameter testing of the CCL is carried out using Stage 1 of the Two-Stage Borehole Test (Boutwell and Tsai, 1992). The test methodology uses a control (i.e., a</p>	2019-01-07	Email/Letter



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				sealed permeameter) to monitor the expansion/contraction of the water due to changes in temperature and to determine a correction factor that can be applied to the test results to account for these effects.		
			The effective consolidation pressure used for the lab permeameter analyses was 18 to 25 kPa, the author should discuss the relevance of the effective consolidation pressure applied during testing to the anticipated consolidation pressures of the liner once the landfill is at capacity.	The effective consolidation pressure will increase as the load (i.e., depth and density of the overlying materials) increases. Increased consolidation reduces the void ratio of the soil and further decreases the permeability. Given that the expanded landfill could have up to 30 m of waste on top of the CCL at a density of approximately 1.7 tonnes/m ³ , an effective consolidation pressure of 18 to 25 kPa represents a conservative estimate of the anticipated consolidation pressure of the CCL once the landfill is at capacity.		
			There was no leachate interaction / compatibility discussion or mineralogical assessment of the clay to identify its swelling potential, where smectite or illite clay minerals are predominant, additional conductivity analyses may be warranted using synthetic leachate. The author should discuss the clay compatibility with respect to the anticipated leachate water quality.	Testing of the compatibility of the CCL material with landfill leachate was carried out in accordance with ASTM Standard STP886. Testing was carried out using actual samples of the clay and leachate collected from the site. The Standard notes that before permeability tests are performed, the index properties of the soil should be determined by mixing the soil with water and by mixing the soil with the leachate. If the leachate does not affect the index properties of the soil, it is not likely to affect the permeability. The solubility of the soil in the leachate should also be checked if the soil is acidic or basic. Test results confirmed that the index properties of the soil were not affected by the landfill leachate, and that the leachate has a relatively neutral pH of approximately 7.5. As such, the permeability of the CCL is not expected to be affected by the landfill leachate.		
Hamilton-Wentworth Catholic District School Board (HWCDSB)	2018-10-24	Letter	We have completed additional analysis related to the Board policy eligibility distances and walking routes to the future residential parcels within the Green Mountain Road development. As a result of the analysis, we have determined that school bus transportation will continue to be required for all students from the development. Therefore, we withdraw our request that truck traffic be prohibited on First Road West. We request however, that in order to enhance road safety that First Road West be provided with a speed limit of 40 km/hr.	Terrapure takes the safety of the surrounding community seriously and agrees with your recommendation to reduce the speed on First Road West to 40 km/hr. Notwithstanding, the speed limit on First Road West is set by the City of Hamilton. With this in mind, Terrapure would be pleased to co-sign a request to the City with the HWCDSB to reduce the speed on First Road West to 40 km/hr.	2018-11-20	Email/Letter
Hamilton-Wentworth District School Board (HWDSB)	2018-11-12	Email/Letter	HWDSB provided Terrapure a signed acknowledgment form and provided the following comments on the Draft SCRF EA: On behalf of the Facilities Management Department, comments are, and continue to be, as addressed in the Terms of Reference response – letters dated February 2017 and November 2016.	Comment noted.	2018-11-05	Email/Letter
Ministry of Natural Resources and Forestry (MNRF)	2018-10-24	Email/Letter	The proposal would likely result in damage or destruction of habitat for Eastern Meadowlark. Although some habitat may remain on site during the operation of the landfill, this would not avoid adverse effects to the species and their habitat. Therefore, the proponent will have to determine whether they are eligible to register the activity online (i.e. they can comply with the conditions listed in the regulation). If the proponent cannot comply with the conditions, then an Overall Benefit permit may be required. For more information on determining eligibility for registering, see the following website: https://www.ontario.ca/page/bobolink-and-eastern-meadowlark-habitats-and-land-development	Thank you for your comment. Our team are aware of the online registry process and, prior to any work commencing, the team will register the work with MNRF through the online registry. The Guelph MNRF office will continue to be sent project updates and any applicable changes that may affect the Natural Environment. This is noted in Section 9.2.3 of the EA Report.	2018-11-20	Email/Letter
Ministry of the Environment, Conservation, and Parks (MECP)	2018-10-25		Ministry of the Environment, Conservation, and Parks (MECP) provided the following comments on the Draft SCRF EA via letter which were subsequently discussed at meetings on November 15, 22, 26, 27 and December 13, 2018.		2018-10-25	Email
		Letter	Executive Summary A number of suggested edits, comments and questions have been raised on the draft EA documentation. It is suggested that any changes, edits or amendments to the draft documentation that may result from addressing the edits, comments and questions that have been raised should be incorporated into the Executive summary where appropriate.	Any changes, edits or amendments to the draft documentation that result from addressing the edits, comments and questions raised will be incorporated into the Executive Summary of the Final EA Report as appropriate.		
			Section 1.0 Introduction and Overview a) Subsection 1.1, entitled "Introduction", provides an overview of the EA process that was carried out to seek approval under the EAA to increase the current capacity of the Stoney Creek Regional Facility. As part of this overview, it is stated that in November 2017 the Minister approved the amended Terms of Reference (ToR) for the proposed Stoney Creek Regional Facility. It should be noted that the Minister's decision to approve the amended ToR included an additional amendment, which required Terrapure to examine and evaluate the feasibility and	Section 1.1 of the Final EA Report will clarify that the Minister's approval of the ToR included an additional amendment requiring Terrapure to examine and evaluate the feasibility and viability of implementing an onsite diversion program as part of the EA process. Further, a brief explanation of the required amendment and how it has been incorporated and addressed as part of the EA process will be provided as well.		



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			<p>viability of implementing an onsite diversion program as part of the EA process. It is suggested that consideration be given to clarifying that as part of the Minister decision to approve the amended ToR an additional amendment was imposed. It is also suggested that a brief explanation of the required amendment, and how it has been incorporated and addressed as part of the EA process, be provided.</p> <p>b) Subsection 1.3, entitled "Site History and Operations", explains that the Stoney Creek Regional Facility operates in accordance with the requirements of its Environmental Compliance Approval (ECA) and other applicable provincial legislation. Although it is understood that the operation of the Facility is governed by the conditions of its ECA, and other applicable provincial legislation, a review of the compliance history of the Facility, including abatement and reporting records that are maintained by the Ministry, has found that there have been instances where the Facility has been in noncompliance with these conditions and requirements. It therefore may not be appropriate to state that the Facility operates in accordance with its ECA, and other applicable provincial legislation. It is suggested that consideration be given to simply stating that the operation of the Facility is governed by the conditions of its ECA and any applicable provincial legislation. In addition it is also suggested that the any applicable provincial legislation governing the operation of the Facility be cited.</p> <p>c) Subsection 1.3, entitled "Site History and Operations", explains that the Stoney Creek Regional Facility does not accept waste capable of decomposing and generating gases. As a result, the Facility has received an exemption from the requirement to have a landfill gas collection system as prescribed by Ontario Regulation 232/98, landfill Sites. Although it is understood that the Facility is currently exempted from the requirement to have a landfill gas collection system, this exemption may not extend to the proposed expansion of the Facility. It is therefore suggested that consideration be given to clarifying that should approval under the EAA be granted for the proposed expansion, Terrapure may have to re-apply for an exemption to the requirement to have a landfill gas collection system under Ontario Regulation 232/98.</p> <p>d) Subsection 1.3.1, entitled "Amendments to the SCRF ECA" explains that the ECA for the Stoney Creek Regional Facility has been amended a number of times. In addition to this, it is understood that the Facility's ECA is in the process or has been recently amended. It is suggested that consideration be given to including or making reference to the most recent amendment process; and, to including the most recent version of the ECA in the final EA.</p> <p>Section 2.0 Overview of the Environmental Assessment Process and Study Organization</p> <p>a) Subsection 2.2, entitled "Ontario Environmental Assessment Act", provides and explanation about the purpose of the EAA. It is explained that the purpose of the Act is to promote sound environmental planning through the protection, conservation, and wise management of Ontario's environment. Although the purpose of the Act is to provide for the protection, conservation, and wise management of Ontario's environment, the intent of the Act is to set forth a proponent driven planning process that incorporates the consideration of the environment into project planning and decision making. This is referred to as the EA process. The first step in the EA process is the preparation and submission of a ToR. An approved ToR serves as a framework for how a proponent will address the legislated requirements of the EAA when preparing an EA; and, sets forth how an EA will be prepared, including: presenting the problem statement; identifying the alternatives that will be evaluated; and, the public, government agency and Indigenous consultation activities that will be carried out. Once a ToR is approved, a proponent may proceed with the preparation of an EA. An EA must be prepared in accordance with an approved ToR. The EA process begins with the identification of a problem or opportunity. This represents the objective of carrying out the EA process. A reasonable number of alternative ways and approaches of addressing the problem or opportunity are then identified and compared. This involves the evaluation and comparison of the potential effects, both direct and indirect, of each alternative on the environment. Under the EAA, the environment is broadly defined to include the natural, social, economic, cultural and built environments. Actions to avoid, reduce, manage or mitigate the potential environmental effects of each alternative are also identified and considered. The environmental process must clearly demonstrate how the advantages and disadvantages of each alternative, in terms of their impacts on the environment, have been identified, measured and assessed. The solution to the problem or opportunity that prompted</p>	<p>Section 1.3 of the Final EA Report will state that the operation of the Stoney Creek Regional Facility (SCRF) is governed by the conditions of its ECA and any applicable provincial legislation. In addition, any applicable provincial legislation governing the operation of the SCRF will be cited.</p> <p>Section 1.3 of the Final EA Report will state that should approval under the EAA be granted for the proposed expansion, Terrapure may have to re-apply for an exemption to the requirement to have a landfill gas collection system under Ontario Regulation 232/98.</p> <p>Section 1.3 of the Final EA Report will make reference to the most recent amendment process. Also, the most recent version of the ECA will be included as part of the Final EA Report.</p> <p>Section 2.2 of the Final EA Report will be amended so that the explanation about the purpose of the EA Act aligns with the summary provided by MECP in their comment. In addition, Subsection 2.2 will clarify that the purpose of the Act is to provide for the protection, conservation, and wise management of Ontario's environment; and, that the purpose of the Act is achieved through a prescribed proponent driven planning process that incorporates the consideration of the environment into project planning and decision-making.</p>		



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			<p>the EA process is determined through a systematic evaluation of a reasonable range of alternatives. The end result is the identification of an alternative that has a preferred balance of advantages and disadvantages, which is referred to as the recommended preferred undertaking. The EA process determines, on the basis of environmental effects, an undertaking for which approval under the Act will be sought; and, how environmental effects of the undertaking can be managed.</p> <p>During the EA process, a proponent will consult with interested stakeholders, including government agencies, potentially affected Indigenous communities and interested members of the public. The purpose of which is to ensure that their respective legislative mandates, rights and interest are identified and considered as part of the EA planning and decision-making process. The results of consultation are to be documented in a Record of Consultation.</p> <p>It is therefore suggested that consideration be given to amending the explanation about the purpose of the EAA provided in the draft EA so that it aligns with the summary provided above. It should be clarified that the purpose of the Act is to provide for the protection, conservation, and wise management of Ontario's environment; and, that the purpose of the Act is achieved through a prescribed proponent driven planning process that incorporates the consideration of the environment into project planning and decision making.</p>			
			<p>b) Subsection 2.2, entitled "Ontario Environmental Assessment Act", explains that the draft EA has been prepared in accordance with the requirements set forth in the approved amended ToR and the requirements of the EAA. It is stated that Appendix D of the draft EA includes details about how the draft EA has fulfilled these requirements. Although it is understood that the draft EA has been prepared in accordance with the requirements set forth in the approved amended ToR and the requirements of the Act, it is the Minister that makes the determination as to whether these requirements have been fulfilled. It is suggested that consideration be given to clarifying that Appendix D of the draft EA includes an explanation about how the requirements of the approved amended ToR and Act have been addressed.</p>	<p>Appendix C of the Final EA Report will include an explanation about how the requirements of the approved amended ToR and Act have been addressed</p>		
			<p>c) Subsection 2.2, entitled "Ontario Environmental Assessment Act", includes a list of some of the requirements set forth in the approved amended ToR and the EAA that have been considered in preparing the draft Environmental Assessment. Although it is understood that the list does not include all the requirements that have governed the EA process and preparation of the draft EA, the list provided does not align with certain requirements set forth in the EAA. It should be noted that the Section 6.1(1) of the Act sets forth that an EA must be prepared in accordance with an approved ToR and must consist of the following:</p> <p>A description of the purpose of the undertaking;</p> <p>A description of and a statement of the rationale for the undertaking and the alternatives being considered as part of the EA process;</p> <p>A description of the environment that will be affected or that might reasonably be expected to be affected, directly or indirectly by the undertaking and the alternatives being considered as part of the EA process;</p> <p>A description of the effects that will be caused or that might reasonably be expected to be caused to the environment by the undertaking and the alternatives being considered as part of the EA process;</p> <p>A description of the actions necessary or that may reasonably be expected to be necessary to prevent, change, mitigate or remedy the effects upon or the effects that might reasonably be expected upon the environment by the undertaking and the alternatives being considered as part of the EA process;</p> <p>An evaluation of the advantages and disadvantages to the environment by the undertaking and the alternatives being considered as part of the EA process; and,</p> <p>A description of any consultation about the undertaking by the proponent and the results of the consultation.</p> <p>It is suggested that consideration be given to clarifying that the EAA requires that an EA must be prepared in accordance with an approved ToR; and, that an EA must consist of the contents set forth above.</p>	<p>Section 2.2 of the Final EA Report will be revised to clarify that the EA Act requires that an EA must be prepared in accordance with an approved ToR; and, that an EA must consist of the contents as set out by MECP in their comment.</p>		



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			<p>d) Subsection 2.4, entitled "Organization of the EA Report", explains that the draft EA has been organized according to the Code of Practice. It should be noted that the Code of Practice does not set forth how an EA should be organized. It is suggested that consideration be given to simply stating that the draft EA has been prepared in accordance with the expectations set forth in the Codes of Practice.</p>	<p>Section 2.4 of the Final EA Report will be revised to state that the Final EA Report has been prepared in accordance with the expectations set forth in the MECP's Codes of Practice.</p>		
			<p>Section 3.0 Purpose of and Rationale for the Undertaking</p>			
			<p>a) Subsection 3.1, entitled "Description of the Undertaking", explains that the undertaking proposed by Terrapure is an increase to the existing capacity of the Stoney Creek Regional Facility by 3,680,000 cubic metres (m3). It should be noted that in accordance with Section 4.2.5 of the Code of Practice, the description of the undertaking presented in an EA document represents the recommended preferred alternative that has been determined through the EA process; and, describes the solution to the problem or opportunity that prompted the EA process. The description of the undertaking is the undertaking for which approval under the EAA is being sought. The description of the undertaking should therefore include, at a minimum, a conceptual description of the undertaking for which approval is being sought. It is understood that Section 6.0 of the draft EA, entitled "Detailed Impact Assessment of the Undertaking", provides a more thorough description of the undertaking for which approval under the Act is being sought; however, the brief summary presented in Subsection 3.1 only describes the purpose of the undertaking, which is to expand the current capacity of the Stoney Creek Regional Facility by 3,680,000 m3. It is suggested that consideration also be given to providing an explanation about how through the EA process the proposed increase in capacity is to be achieved.</p>	<p>Section 3.1 of the Final EA Report will be removed as Section 6.0 provides a detailed description of the undertaking.</p>		
			<p>b) Subsection 3.2, entitled "Purpose of the Undertaking", explains that the purpose of the undertaking is to address an economic opportunity associated with the disposal of post diversion solid, non-hazardous industrial residual materials by increasing the current capacity of the Stoney Creek Regional Facility by 3,680,000 m3. It is stated that Terrapure has determined that there is a strong market demand for residual disposal capacity for the foreseeable future, and that Terrapure wants to take advantage of the economic opportunity; however, there is no supporting documentation, reports or studies referenced to demonstrate how this was determined. It is suggested that consideration be given to citing, and including as a separate and standalone supporting document, the Terrapure Stoney Creek Regional Facility Business Case Analysis that was included in the approved amended ToR and any other relevant documentation, reports or studies.</p>	<p>Section 3.2 of the Final EA Report will cite the Terrapure Stoney Creek Regional Facility Business Case Analysis that was included in the Minister Approved Amended ToR and include it as a separate, stand alone document as Appendix E to the Final EA Report.</p>		
			<p>c) Subsection 3.2, entitled "Purpose of the Undertaking", explains that Terrapure has determined that there is a strong market demand for the disposal capacity for post diversion solid, non-hazardous industrial residual materials. It is proposed that this demand represents an economic opportunity for Terrapure; and, that the opportunity can be addressed through an increase in the current capacity of the Stoney Creek Regional Facility. It is understood that this demand, and associated economic opportunity, was determined through a Business Case Analysis carried out by Terrapure in February 2017. The Business Case Analysis was used to support and justify the statement of purpose that was presented in approved amended ToR. It should be noted that in accordance with Section 4.2.1 of the Code of Practice, the statement of purpose presented in an approved ToR must be reviewed as part of EA process to confirm that it is still valid or, where appropriate, to demonstrate how it may have been refined. It is suggested that consideration be given to providing an explanation about how the conclusions of the Business Case Analysis were reviewed as part of the EA process to demonstrate that they remain valid.</p>	<p>Section 3.2 of the Final EA Report will be revised to explain how the conclusions of the Business Case Analysis were reviewed as part of the EA process to demonstrate that they remain valid.</p>		
			<p>d) Subsection 3.2, entitled "Purpose of the Undertaking", explains that the economic opportunity that prompted the initiation of the EA process was based on a number of factors, including minimizing environmental impacts by offering a modern, engineered landfill as a local solution for waste disposal rather than exporting. Although the statement that the proposed capacity increase of the Stoney Creek Regional Facility may have the potential to minimize environmental impacts by offering a modern, engineered landfill as a local solution is not being questioned, it is not understood how this conclusion was determined. It is also not understood how minimizing the environmental impacts associated with exporting was considered as part of the economic opportunity associated with increasing the current capacity of the Facility. It is</p>	<p>Section 3.2 of the Final EA Report will be revised to remove the statement that the economic opportunity was based on minimizing environmental impacts.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>suggested that consideration be given to explaining how it was determined that the proposed increase in the capacity of the Facility would minimize the impacts associated with the current waste management practices regarding the disposal of post diversion solid, non-hazardous industrial residual materials in Ontario. The explanation should identify those impacts associated with the current waste management practices and describe how they can be minimized. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates this conclusion. It is also suggested that consideration be given to explaining how it was determined that the economic opportunity associated with increasing in the current capacity of the Facility was based on minimizing environmental impacts.</p>			
			<p>e) Subsection 3.3, entitled "Rationale for the Undertaking", explains that the rationale for the undertaking for which approval under the EAA is being sought is that the undertaking will allow Terrapure to continue to provide disposal capacity for solid, non-hazardous industrial residual waste within the Hamilton & Greater Toronto Area; and, that the undertaking aligns with the province of Ontario's Strategy for a Waste Free Ontario: Building the Circular Economy. It should be noted that in accordance with Section 4.2.5 of the Code of Practice, the rationale for the undertaking presented in an EA document should explain why the undertaking for which approval under the Act is being sought is the most appropriate solution to the problem or opportunity that prompted the EA process. The rationale for the undertaking represents the conclusion of the EA process, and explains how the preferred undertaking for which approval under the Act is being sought was determined. It is suggested that consideration be given to providing a more reasonable explanation about how it was determined that Alternative Method No. 5, Reconfiguration and Height Increase, was determined to be the recommended preferred alternative to addressing proposed expansion to the current capacity of the Stoney Creek Regional Facility by 3,680,000 m3.</p>	<p>Section 3.3 of the Final EA Report will be removed and an explanation as to why Alternative Method No. 5 was determined to be the recommended preferred alternative will be included in Section 5.</p>		
			<p>f) Subsection 3.3.2, entitled "Industrial Waste Diversion Rate & Disposal Capacity", explains that the proposed increase to the capacity of the Stoney Creek Regional Facility will address the need for landfill capacity in the province to accommodate solid, non-hazardous industrial residual waste disposal; and, will support the transition to zero waste by the province. Although the statement that the proposed capacity increase of the Facility will address the need for landfill disposal capacity in the province for solid, non-hazardous industrial residual waste is not being questioned, it is not understood how this conclusion was determined. It is also not understood how addressing the need for landfill disposal capacity was considered as part of the economic opportunity associated with increasing the current capacity of the Facility. It is suggested that consideration be given to explaining how it was determined that there is a need for increased disposal capacity for solid, non-hazardous industrial residual waste in Ontario; and, how the proposed increase in the capacity of the Facility will address this need. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates this conclusion. It is also suggested that consideration be given to explaining how it was determined that the economic opportunity associated with increasing in the current capacity of the Facility was based addressing the need for landfill capacity in the province to accommodate solid, non-hazardous industrial residual waste disposal and the proposed transition to zero waste by the province.</p>	<p>Section 3.3.2 of the Final EA Report will be removed.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>g) Subsection 3.3.3, entitled "Historic Waste Volumes Received at the SCRF", explains that based on the historic tonnages accepted at the Stoney Creek Regional Facility, Terrapure was able to determine the amount of post-diversion solid, non-hazardous industrial residual material generated within the approved service area of the Facility. Based on the historic tonnages accepted at the facility, Terrapure was able to determine that there is a sustainable economic opportunity to continue to provide disposal capacity for post diversion solid, non-hazardous industrial residual material. Although it is understood that an evaluation of historic tonnages of wastes accepted at the Facility was considered as part of the assessment that formed the Business Case Analysis carried out by Terrapure to establish the economic opportunity associated with the proposal to increase the current capacity of the Facility, it is not understood how the assessment of historic tonnages allowed Terrapure to determine the amount of post-diversion solid, non-hazardous industrial residual material that was generated within Ontario. It is also not understood how the evaluation of historic tonnages of wastes accepted at the Facility was considered as part of the economic opportunity associated with increasing the current capacity of the Facility. It is suggested that consideration be given to clarifying how the evaluation of historic tonnages of wastes accepted at the Facility was used to determine the amount of post-diversion solid, non-hazardous industrial residual material generated within the approved service area of the Facility. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates this conclusion. It is also suggested that consideration be given to explaining how it was determined that the economic opportunity associated with increasing in the current capacity of the Facility was based on the evaluation of historic tonnages of wastes accepted at the Facility.</p>	<p>Section 3.3.3 of the Final EA Report will be removed.</p>		
			<p>h) Subsection 3.3.4, entitled "Market & Local Business Considerations", explains that the proposed increase to the current capacity of the Stoney Creek Regional Facility will allow Terrapure to continue to provide its existing regional customer base with a local, reliable, secure and cost effective disposal alternative for post-diversion, solid non-hazardous industrial residual materials. It is also explained that should the capacity of the Facility not be increased, it is anticipated that the Facility's regional customer base will incur costs of ranging from \$4.8 million to \$17.5 million, per year, to dispose of their wastes at alternative landfill sites. Although the statement about the costs associated with the disposal of post-diversion, solid non-hazardous industrial residual materials by the Facility's existing regional customer base at alternative landfill sites is not being questioned, it is not understood how this conclusion was determined. It is also not understood how continuing to provide the Facility's existing regional customer base with a local, reliable, secure and cost effective disposal alternative for post-diversion, solid non-hazardous industrial residual materials was considered as part of the economic opportunity associated with increasing the current capacity of the Facility. It is suggested that consideration be given to explaining how it was determined that the Facility's regional customer base will incur costs of ranging from \$4.8 million to \$17.5 million, per year, to dispose of their wastes at alternative landfill sites. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates this conclusion. It is also suggested that consideration be given to explaining how it was determined that the economic opportunity associated with increasing in the current capacity of the Facility was based on continuing to provide the Facility's existing regional customer base with a local, reliable, secure and cost effective disposal alternative for post-diversion, solid non-hazardous industrial residual materials.</p>	<p>Section 3.3.4 of the Final EA Report will be removed.</p>		
			<p>i) Subsection 3.3.5, entitled "Environmental Solution", explains that the proposed increase to the current capacity of the Stoney Creek Regional Facility will minimize the environmental impacts of Green House Gas (GHG) emissions through a reduction in the number of waste related trucks hauling material over longer distances. Although the statement that the proposed increase to the current capacity of the Facility will minimize the environmental impacts of GHG emissions by reducing transportation distances is not being questioned, it is not understood how this conclusion was determined. It is also not understood how the potential reduction in GHG emission through shorter hauling distances was considered as part of the economic opportunity associated with increasing the current capacity of the Facility. It is suggested that consideration be given to explaining how it was determined that the proposed increase to the current capacity of the Facility will result in a reduction or minimization of the GHG emissions associated with the transportation of post-diversion, solid non-hazardous industrial residual materials. The explanation should include relevant supporting information,</p>	<p>Section 3.3.5 of the Final EA Report will be removed.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>such as studies, models or reports, which demonstrates, confirms or validates this conclusion. It is also suggested that consideration be given to explaining how it was determined that the economic opportunity associated with increasing in the current capacity of the Facility was based on the potential reduction in GHG emission through shorter hauling distances.</p> <p>j) Subsection 3.4, entitled "Predetermined Alternative to the Undertaking" explains that because Terrapure is successfully operating the Stoney Creek Regional Facility, and wishes to continue the operation of the Facility, the establishment of a new landfill site or an alternative form of waste disposal facility elsewhere are not feasible alternatives. It should be noted that the rationale presented in the approved amended ToR for limiting the alternatives that would be considered during the EA process is based upon the determination that, given the capitol costs associated with the development of a new landfill and the difficulties in securing an adequate or suitable site, the creation of a new landfill or alternative form of waste disposal were not found to be reasonable alternatives to address the economic opportunity of providing increased disposal capacity for post-diversion, solid non-hazardous industrial residual materials. The wishes of Terrapure to continue the operation of the Facility may not be a suitable or adequate explanation to support why Terrapure has concluded that a new landfill or alternative form of waste disposal are not reasonable alternatives for consideration as part of the EA process. It is suggested that consideration be given to providing an explanation about how it was determined that the establishment of a new landfill site or an alternative form of waste disposal facility elsewhere are not feasible alternatives that aligns with the rationale presented in the approved amended ToR.</p> <p>k) Subsection 3.4, entitled "Predetermined Alternative to the Undertaking" explains that factors influential to the Terrapure's business opportunity, such as geography, financial constraints, and a need for local, cost-effective, solid, non-hazardous waste disposal capacity, demonstrate that an EA prepared in accordance with Section 6.(2)(c) of the EAA is justified and appropriate in this case. Although it is understood that cost was a major consideration in determining how to address the economic opportunity associated with providing increased capacity for the disposal of post-diversion, solid non-hazardous industrial residual materials, it is not understood how geography and the need for local, cost-effective, solid, non-hazardous waste disposal capacity was a determining factor in the rationale which supports the preparation of an EA in accordance with Section 6.(2)(c) of the EAA. In accordance with the rationale presented in the approved amended ToR, which supports the preparation of an EA in accordance Section 6.(2)(c) of the EAA, it has been explained that as a private sector proponent with a current landfill there are a limited number of reasonable ways in which Terrapure is able to approach the economic opportunity associated with creating increased disposal capacity for post-diversion, solid non-hazardous industrial residual materials. As set forth in the approved amended ToR, the approaches that would reasonably be available to Terrapure would generally include the establishment of a new landfill, the creation of an alternative form of waste disposal or the expansion of existing Stoney Creek Regional Facility. Given the capitol costs associated with the development of a new landfill or a new waste disposal alternative, and the difficulties in securing or developing a suitable site to locate a new landfill, it was determined that the creation of a new landfill or new waste disposal alternative were not a viable alternatives to address the economic opportunity of providing increased disposal capacity. Accordingly, it was determined that the most reasonable way of approaching or dealing with the economic opportunity associated with providing increased disposal capacity was to look at the various ways in which current capacity of the Facility could be increased. It is suggested consideration be given to ensuring that the rationale which supports the preparation of the EA in accordance with Section 6.(2)(c) of the EAA be consistent with that provided in the approved amended ToR.</p> <p>l) Subsection 3.5, entitled "Benefits of the Undertaking", explains that the proposed undertaking will allow Terrapure to continue to provide a local solution to address in-province waste management needs in an environmentally responsible and financially sound manner, and provides secure waste management infrastructure for the existing customer base. Although the undertaking may allow Terrapure to provide a waste disposal option for generators of post-diversion, solid non-hazardous industrial residual materials, the primary benefit of the proposed undertaking is to allow Terrapure to address the economic opportunity associated with creating additional capacity for the disposal of these materials. It is suggested that consideration be given to clarifying that, in accordance with the purpose and rationale for the undertaking</p>	<p>Section 3.2 of the Final EA Report will provide an explanation about how it was determined that the establishment of a new landfill site or an alternative form of waste disposal facility elsewhere are not feasible alternatives that aligns with the rationale presented in the Minister-approved amended Terms of Reference.</p> <p>Section 3.2 of the Final EA Report will provide an explanation about how it was determined that the establishment of a new landfill site or an alternative form of waste disposal facility elsewhere are not feasible alternatives that aligns with the rationale presented in the Minister-approved amended Terms of Reference.</p> <p>Section 3.5 of the Final EA Report will be removed. An explanation as to why Alternative Method No. 5 was determined to be the recommended preferred alternative, taking into consideration relative advantages and disadvantages, will be included in Section 5.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>presented in the approved amended ToR, the main benefit of the undertaking is that it will allow Terrapure to address the economic opportunity associated with creating additional capacity for the disposal of these materials. The additional benefits that have been cited may be referenced as the indirect benefits of the undertaking; however, an explanation must be provided to clarify how these benefits were determined and should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates this conclusion.</p>			
			<p>m) Subsection 3.5, entitled "Benefits of the Undertaking", list a number of benefits that can be achieved should the undertaking receive approval under the EAA. In particular, it has been identified that the undertaking is likely to result in eliminating the need for the creation of a new landfill for the disposal of post-diversion, solid non-hazardous industrial residual materials; result in less waste being exported to landfills in the other jurisdictions; that wastes generated from the predominant customer base in the Hamilton and Greater Toronto Area will not require additional transportation costs; and, will result in the reduction of GHG emissions associated with lengthier hauling distances. It is not understood how these benefits were determined. It is suggested that consideration be given to explaining how it was determined that these benefits that can be achieved should the undertaking receive approval under the EAA. The explanation should include all relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates these conclusions.</p>	<p>Section 3.5 of the Final EA Report will be removed. An explanation as to why Alternative Method No. 5 was determined to be the recommended preferred alternative, taking into consideration relative advantages and disadvantages, will be included in Section 5.</p>		
			<p>Section 4.0 Description of the Environment Potentially Affected by the Undertaking</p>			
			<p>a) Section 4.3, entitled "Existing Conditions", provides a description of the EA study area for each of the components of the environment defined under the EAA. For each of the components of the environment, a list of the resources that were used to determine their description has been provided. Although it is understood that a number of resources were relied upon to gain an understanding of the environment within the EA study area, it is not clear how the studies, tests, surveys or mapping were used to determine the environment that may be potentially affected by the undertaking and alternatives being considered as part of the EA process. It should be noted, that in accordance with the expectations set forth in Section 4.2.3 of the Code of Practice, an EA document should clearly identify and include an explanation or overview of the studies, tests, surveys or mapping that were used to determine the environment that may be potentially affected by the undertaking and alternatives being considered as part of the EA process. Although the draft EA document does include a list of references that were used in developing a description of the EA study area, there is no explanation about how the studies, tests, surveys or mapping that were used. It is therefore suggested that consideration be given to ensuring that an explanation or overview is provided for each of the studies, tests, surveys or mapping that were used to describe each component of the environment setting and the rationale that supports their use. In addition, when information from the studies, tests, surveys and mapping is used to describe the EA study area environment, they studies, tests, surveys or mapping used should be cited.</p>	<p>An explanation about how each of the studies, tests, surveys, mapping was used is included as Appendix G. Where applicable, citations and references to the studies, tests, surveys or mapping used will be added to Section 4.</p>		
			<p>b) Subsection 4.3.5, entitled "Cultural Environment" provides a summary of the archaeological, cultural and heritage resources in the EA study area. There is, however, a lack of detail regarding the potential for Indigenous resources. It should be noted that a fundamental requirement under the EAA is consultation with interested persons, including consultation with First Nation and Métis communities. Consultation with Indigenous communities provides an opportunity for communities to engage in the EA planning process, exchange information and provide opinions about how an undertaking may affect their rights or interests. This includes the identification of any resources within the EA study area upon which Indigenous communities may rely or have been identified as being of significance to a community. It is suggested that consideration be given to providing an explanation about the potential for Indigenous resources in the EA study area. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates these conclusions.</p>	<p>Section 4.2.5 of the Final EA Report will be revised to provide an explanation that based on the evaluation of archaeological potential and engagement with Indigenous communities, no potential Indigenous resources have been identified in the study area.</p>		
			<p>Section 5.0 Alternative Methods of Carrying out the Undertaking</p>			
			<p>a) Subsection 5.1, entitled "Alternative Methods", explains that a series of criteria and assumptions were established to guide the development of the Alternative Methods for the Stoney Creek Regional Facility. Although it is understood that the proposed criteria and assumptions were used in the development of the alternatives being considered as part of the EA process, it should be noted that the primary objective of these criteria is to aid in the</p>	<p>Section 5.1 of the Final EA Report will be revised to clarify that a series of parameters and assumptions were established to guide the development of the alternative methods that would be considered as part of the EA process for increasing the current capacity of the Stoney Creek Regional Facility.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>identification of a reasonable number of various ways in which the solution to the problem or opportunity that prompted the initiation of the EA process can be carried out. In accordance with section 4.2.2 of the Codes of Practice, a proponent will identify and describe the alternatives that will be considered as part of the EA process, and explain the rationale that supports selection of those alternatives that are to be carried forward for further consideration. The purpose of which is to ensure that the EA process is clear, logical and traceable, so that anyone with the same information could reach the same conclusion without any additional assumptions. It should be noted that as part of the EA process, alternative methods are developed to examine the various ways in which the solution to the problem or opportunity that prompted the initiation of the EA process can be implemented or carried out. It is therefore suggested that consideration be given to clarifying that a series of criteria and assumptions were established to guide the development of the alternatives methods that would be considered as part of the EA process for increasing the current capacity of the Stoney Creek Regional Facility.</p> <p>b) Subsection 5.5.1, entitled "Geology and Hydrogeology", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives that were considered as part of the EA process as it relates to their impacts on geology and hydrology. It is explained, that as part of this process, alternatives were assessed under closure conditions. It should be noted that the comparative evaluation process undertaken for the assessment of potential impacts on geology and hydrology for each of the alternatives being considered as part of the EA process may not be consistent with the requirements of the EAA. In particular, it may not be appropriate to assess the potential effects associated with each alternative only under closure conditions.</p> <p>In accordance with the requirements of section 6.1(2)(c)(ii) of the EAA, an EA document is to include a description of the effects that will be caused or that might reasonably be expected to be caused to the environment by the alternatives being considered as part of the EA process. This is to include a description of the potential effects, both direct and indirect, that may result from the construction, operation and decommissioning of each alternative, on each of the components of the environment as defined under the Act. The identification and comparison of environmental effects for the entire life cycle of each alternative being considered is necessary to provide a balanced picture of their potential environmental effects as a whole. By not adequately considering all the potential effects that may result from the construction, operation and decommissioning of each alternative, it may be difficult to understand how the advantages and disadvantages of each of the alternatives being considered as part of the EA process were compared.</p> <p>It is therefore suggested that consideration be given to ensuring that the comparison and evaluation of each of the alternatives being considered as part of the EA process, as it relates to impacts on geology and hydrology, include the identification, assessment and comparison of all of the potential effects, both direct and indirect, that may result from their construction, operation and decommissioning.</p> <p>c) Subsection 5.5.1, entitled "Geology and Hydrogeology", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on geology and hydrology. It is explained that as part of the assessment of effects on groundwater, a leachate generation rate was estimated, using the Hydrologic Evaluation of Landfill Performance model, for each of the alternatives. The model was used to calculate daily, monthly, and annual averages for the amount of surface water runoff, evapotranspiration, drainage, and leachate collection. A reference has been made to Appendix H of the draft EA, in which a more detailed explanation of the model can be found; however, there is no reference to a supporting document in which the modelling that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of alternatives being considered as part of the EA process as they relate to geology and hydrology are presented. There appears to be a lack of information to demonstrate how the conclusions of the modelling that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the</p>	<p>Section 5 of the Final EA Report will be updated to ensure that the assessment and evaluation of the alternative methods include the identification of all potential effects, both direct and indirect, that may result from their construction, operation and closure/post closure (or decommissioning).</p> <p>Rather than being distinct sequential phases, landfill construction and landfill operation phases are concurrent occurring over the same time period. As a result, they need to be viewed or assessed and considered as one phase. As outlined in the Appendix J-9 (Design and Operations Impact Assessment Report) and Appendix K (Facility Characteristics Report) during the placing of waste material (operations) construction of the final cover and base liner system will also be taking place (construction). The Final EA Report will also be updated to reflect this so that 'construction/operation' is viewed as one phase for potential effects identification purposes. However, where applicable, effects associated with construction activities will be distinguished from effects associated with operations.</p> <p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including geology and hydrology, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		



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			<p>potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternative being considered as part of the EA process, in terms of their impacts to geology and hydrology; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p>			
			<p>d) Subsection 5.5.1, entitled "Geology and Hydrogeology", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts to geology and hydrology. It is explained that the potential effects of the alternatives being considered as part of the EA process were assessed without taking into consideration several environmental control systems that are incorporated into the current design of the Stoney Creek Regional Facility. These control systems have been identified as important aspects of the Facility's groundwater protection strategy, and have been taken into consideration as impact management measures as part of the comparison and evaluation of the effects of each of the alternatives being considered, as it relates to geology and hydrology. Although an explanation has been provided about how the environmental control systems currently in place at the Facility could affect the anticipated potential effects of each of the alternatives being considered as part of the EA process, in terms of their impact on geology and hydrology, the explanation does not appear to give consideration to any potential modifications or changes that may be required to ensure that they are able to adequately address the potential effects identified for each of the alternatives. Furthermore, the anticipated performance of the environmental control systems currently in place at the Facility to address the anticipated potential impacts to geology and hydrology from each of the alternatives being considered appears to be based solely on the performance of these control systems as they relate to the current design of the facility. It would appear that consideration has not been given assessing the performance of each environmental control system based on the potential modifications or changes that may be required as part of the construction, operation and decommissioning of each of the alternatives. It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with geology and hydrology, will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>impacts on geology and hydrology, will be prevented, changed, mitigated or remedied. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p>			
			<p>e) Subsection 5.5.2, entitled "Surface Water", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on surface water. It is explained that as part of the assessment of impacts on surface water, predictive modelling was performed using PCSWMM Version 7.1 with SWMM5 version 5.1.012 for the each of the alternatives being considered. The model was used to evaluate the changes to the peak flows and runoff volumes for each alternative when compared to the baseline condition. It has been noted that there is no reference to a supporting document in which the modelling that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of alternatives being considered as part of the EA process in terms of their impact to surface water are presented. There appears is a lack of information to demonstrate how the conclusions of the modelling that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the Act, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternative being considered as part of the EA process, in terms of their impacts on surface water; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p>	<p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including surface water, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		
			<p>f) Subsection 5.5.2, entitled "Surface Water", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on surface water. It is explained that the potential effects to surface water from the alternatives being considered were assessed as being uncontrolled, and that there were no measures in place to address their potential effects. It is further explained that the current Stoney Creek Regional Facility includes perimeter ditches and a storm water management pond as part of its mitigation measures to address potential impacts to surface water; and, that these mitigation measures were taken into consideration as part of the identification, comparison and evaluation of the effects of each of the alternatives being considered as it relates to their impacts on surface water. Although an explanation has been provided about how the mitigation measures currently in place at the Facility could affect the anticipated potential effects of each of the alternatives being considered as part of the EA process, in terms of their impact on surface water, the explanation does not appear to give consideration to any potential modifications or changes that may be required to each mitigation</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with surface water, will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>measures to ensure that they are able to adequately address the potential effects identified for each alternatives. Furthermore, the anticipated performance of the mitigation measures currently in place at the Facility to address the anticipated potential impacts to surface from each of the alternatives appears to be based solely on the performance of these measures as they relate to the current design of the facility. It would appear that consideration has not been given assessing the performance of each mitigation measure based on the potential modifications or changes that may be required as part of the construction, operation and decommissioning of each of the alternatives.</p> <p>It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to impacts on surface water, will be prevented, changed, mitigated or remedied. The explanation should include all relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p> <p>g) Subsection 5.5.3, entitled "Terrestrial and Aquatic (Natural) Environment", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the terrestrial and aquatic environment. It is explained that the assessment of effects on the terrestrial and aquatic environment included the predicted impacts on vegetation communities and wildlife habitat, including rare, threatened or endangered species; and, the predicted impact on aquatic habitat and aquatic biota. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of alternatives being considered as part of the EA process in terms of their impact to the terrestrial and aquatic environment are presented. There appears is a lack of information to demonstrate how the conclusions of the assessment that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include, as appendices or supporting information, all studies, models or reports that have been cited. Any interested</p>	<p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including on the terrestrial and aquatic environment, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternative being considered as part of the EA process, in terms of their impacts on the terrestrial and aquatic environment; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p> <p>h) Subsection 5.5.3, entitled "Terrestrial and Aquatic (Natural) Environment", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on terrestrial and aquatic environment. It is explained that in order to address the potential effects of the alternatives being considered as part of the EA process, in terms of their impact on the terrestrial and aquatic environment, a number of impact management measures and best management practices would be employed. Although the proposed impact management measures and best management practices have been identified, the anticipated performance of these measures and practices to address the potential effects from each of the alternatives being considered in terms of their impact on the terrestrial and aquatic environment has not been identified. It would appear that consideration has not been given assessing the performance of each impact management measure and best management practice based on the potential modifications or changes that may be required as part of the construction, operation and decommissioning of each of the alternatives.</p> <p>It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to impacts on the terrestrial and aquatic environment, will be prevented, changed, mitigated or remedied. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p> <p>i) Subsection 5.5.4, entitled "Atmospheric Environment - Air and Odour", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the atmospheric environment, with respect to air and odour. It is explained that the assessment of effects on the atmospheric environment included the predicted off-site point of impingement concentrations of particulate matter size fractions; and, the predicted off-site point of impingement concentrations of volatile organic compounds. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with the terrestrial and aquatic environment, will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p> <p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including on the atmospheric environment (i.e., air and odour), is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>alternatives being considered as part of the EA process in terms of their impact on the atmospheric environment with respect to air and odour are presented. There appears to be a lack of information to demonstrate how the conclusions of the modelling that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternative being considered as part of the EA process in terms of their impact on the atmospheric environment with respect to air and odour; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p> <p>j) Subsection 5.5.4, entitled "Atmospheric Environment - Air and Odour", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the atmospheric environment with respect to air and odour. It is explained that in order to mitigate the potential effects of the alternatives being considered as part of the EA process on the atmospheric environment, a number of impact management measures and best management practices would be employed. Although the proposed impact management measures and best management practices have been identified, the anticipated performance of these measures and practices to address the potential effects from each of the alternatives being considered in terms of their impact on the atmospheric environment with respect to air and odour has not been identified. It would appear that consideration has not been given assessing the performance of each impact management measure and best management practice based on the potential modifications or changes that may be required as part of the construction, operation and decommissioning of each of the alternatives.</p> <p>It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with the atmospheric environment (i.e., air and odour), will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>impacts on the atmospheric environment with respect to air and odour, will be prevented, changed, mitigated or remedied. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p>			
			<p>k) Subsection 5.5.5, entitled "Atmospheric Environment - Noise", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the atmospheric environment with respect to noise. It is explained that the assessment of effects on the atmospheric environment included the predicted off-site noise levels; and, the number of off-site receptors potentially affected. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the alternatives being considered as part of the EA process in terms of their impact on the atmospheric environment with respect to noise are presented. There appears is a lack of information to demonstrate how the conclusions of the modelling that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternative being considered as part of the EA process in terms of their impact on the atmospheric environment with respect to noise; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p>	<p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including on the atmospheric environment (i.e., noise), is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		
			<p>l) Subsection 5.5.5, entitled "Atmospheric Environment - Noise", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the atmospheric environment with respect to noise. It is explained, that as part of this process, general assumptions were made that included the selection of worst-case equipment locations based on proximity and elevated line-of-sight exposure to the off-site residential dwellings; and, the selection of the worst-case elevation based on the landfill cell development and the corresponding topography detail. It should be noted that the comparative evaluation process undertaken for the assessment of potential impacts on the atmospheric environment, with respect to noise, for each of the alternatives being considered as part of the EA process may not be consistent with the requirements of the EAA. In particular, it may not be appropriate to assess the potential effects associated with each alternative based on effects that may not be considered reasonable.</p> <p>In accordance with the requirements of section 6.1(2)(c)(ii) of the EAA, an EA document is to include a description of the effects that will be caused or that might reasonably be expected to</p>	<p>Section 5 of the Final EA Report will be updated to ensure that the assessment and evaluation of the alternative methods include the identification of all potential effects, both direct and indirect, that may result from their construction, operation and closure/post closure (or decommissioning).</p> <p>Rather than being distinct sequential phases, landfill construction and landfill operation phases are concurrent occurring over the same time period. As a result, they need to be viewed or assessed and considered as one phase. As outlined in the Appendix J (Design and Operations Report) and Appendix I (Facility Characteristics Report) during the placing of waste material (operations) construction of the final cover and base liner system will also be taking place (construction). The Final EA Report will also be updated to reflect this so that 'construction/operation' is viewed as one phase for potential effects identification purposes.</p>		



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			<p>be caused to the environment by the alternatives being considered as part of the EA process. This is to include a description of the potential effects, both direct and indirect, that may result from the construction, operation and decommissioning of each alternative being considered, on each of the components of the environment as defined under the Act. The identification and comparison of environmental effects for the entire life cycle of each alternative being considered is necessary to provide a balanced picture of their potential environmental effects as a whole. By not adequately considering all the potential effects that may reasonably result from the construction, operation and decommissioning of each alternative, it may be difficult to understand how the advantages and disadvantages of each of the alternatives being considered as part of the EA process were compared.</p> <p>It is therefore suggested that consideration be given to ensuring that the comparison and evaluation of the potential effects of each of the alternative being considered as part of the EA process on the atmospheric environment, with respect to noise, include the identification, assessment and comparison of all of the potential effects, both direct and indirect, that are likely to reasonably result from their construction, operation and decommissioning.</p> <p>m) Subsection 5.5.5, entitled "Atmospheric Environment - Noise", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the atmospheric environment with respect to noise. It is explained that in order to mitigate the potential effects of the alternatives being considered as part of the EA process on the atmospheric environment, a number of impact management measures would be employed. These include the construction of the north property line berm at an appropriate height to block the line of sight to the residential areas to the north; and, that the required that the required height of the berm be between 7 and 10 metres (m) above the base landfill elevations. Although the proposed impact management measures have been identified, the anticipated performance of these measures to address the potential effects from each of the alternatives being in terms of their impact on the atmospheric environment, with respect to noise, has not been identified. It would appear that consideration has not been given assessing the performance of each impact management measure based on the potential modifications or changes that may be required as part of the construction, operation and decommissioning of each of the alternatives.</p> <p>It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to impacts on the atmospheric environment with respect to noise, will be prevented, changed, mitigated or remedied. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with the atmospheric environment (i.e., noise), will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p>		
			<p>n) Subsection 5.7.2, entitled "Human Health", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on human health. It is explained that the</p>	<p>Section 5.4 of the Final EA Report will cite the most recent annual Community Health Assessment Review and include it as a separate and standalone supporting document (Appendix F of the Alternative Methods Report (Appendix I)). In addition, Section 5.4</p>		



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			<p>potential effects of the alternatives being considered as part of the EA process were assessed using existing data and a methodology established as part of the on-going Community Health Assessment Review. It has been noted that there is no reference to an appendix or supporting document in which the Community Health Assessment Review can be found. As a result, there is a lack of information about the data and methodology used as part of the assessment of the potential effects on human health from each of the alternatives being considered. It is suggested that consideration be given to citing, and including as a separate and standalone supporting document, the most recent annual Community Health Assessment Review.</p>	<p>will be revised to include information on how the Community Health Assessment Review workplan was developed and consulted on.</p>		
			<p>o) Subsection 5.7.2, entitled "Human Health", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on human health. It is explained that as part of the assessment of the potential effects on human health, five indicators based on effects to air, leachate quality, ground water quality, surface water quality and soil quality for each of the alternatives being considered were evaluated. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of alternatives being considered as part of the EA process in terms of their impact to human health are presented. There appears to be is a lack of supporting information to demonstrate how the conclusions of the assessment that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternatives being considered as part of the EA process, in terms of their impacts on human health; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p>	<p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including human health, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p>		
			<p>p) Subsection 5.7.2, entitled "Human Health", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on human health. It is explained that in order to mitigate the potential effects of the alternatives being considered as part of the EA process on human health, a number of recommended impact management measures have been proposed. Although the proposed impact management measures have been identified, the anticipated performance of these measures, to address the potential effects from each of the alternatives in terms of their impact on human health, have not been identified. It would appear that consideration has not been given assessing the performance of the proposed impact management measures as they relate to the anticipated potential effects to human health from each of the alternatives being considered as part of the EA process.</p> <p>It should be noted that in accordance with subsection 6.1(2)(c)(iii) of the EAA, a proponent is required to describe the actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects to the environment of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4</p>	<p>Section 5 of the Final EA Report will explain how the potential effects of each of the alternatives being considered as part of the EA process, including those associated with human health, will be prevented, changed, mitigated or remedied (i.e., impact management measures), as appropriate. The explanation will include relevant supporting information (e.g., studies, models or reports), which demonstrates, confirms or validates how the proposed impact management measures will achieve their intended purpose. In addition, any effects that may remain after the application of the proposed impact management measures will be clearly identified/described (i.e., net effects).</p>		



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			<p>of the Codes of Practice, this should include a description about the impact management measures that will be used to reduce the negative environmental effects of each of the alternatives being considered. These impact management measures are mainly required for effects which are negative or anticipated to have a negative effect either directly or indirectly on the environment. Where measures are either unnecessary because of the nature of the effect or are not reasonably available a proponent must discuss how and why this was determined. Where a variety of impact management measures are available, the relative merits of each should be considered through the consideration of their respective costs and effectiveness, including any environmental effects to which they may themselves give rise. The effects remaining after the application of impact management measures are considered net effects. These net effects must also be described in the EA document.</p> <p>It is suggested that consideration be given to providing an explanation about how the potential effects of each of the alternatives being considered as part of the EA process, as they relate to impacts on human health, will be prevented, changed, mitigated or remedied. The explanation should include relevant supporting information, such as studies, models or reports, which demonstrates, confirms or validates how the proposed actions or potential actions that may be necessary to prevent, change, mitigate or remedy the effects or the potential effects of each of the alternatives will achieve their intended purpose. It is also suggested that consideration be given to clearly identifying and describing any effects that may remain after the application of the proposed actions or potential actions. These are commonly referred to as net effects.</p> <p>q) Subsection 5.8, entitled "Economic Environment", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the economic environment. It is explained that as part of the assessment of the potential effects on the economic environment, the conclusions of an economic impact assessment were used. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify, compare and evaluate the potential effects of each of the of alternatives being considered as part of the EA process in terms of their impact to the economic environment are presented. There appears to be a lack of supporting information to demonstrate how the conclusions of the assessment that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the potential effects of each of the alternatives being considered as part of the EA process, in terms of their impacts on the economic environment; and, that information cited, such as studies, models or reports, which demonstrates, confirms or validates how the potential effects of each of the alternatives were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p> <p>r) Subsection 5.9, entitled "Cultural Environment", provides a summary of the assessment undertaken as part of the comparison and evaluation of the alternatives being considered as part of the EA process as it relates to their impacts on the cultural environment. It is explained that as part of the assessment of effects on the cultural environment, the potential impacts of</p>	<p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including the economic environment, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p> <p>Section 5.4 of the Final EA Report will be revised to include an assessment of the potential effects of each alternative on Indigenous resources in the EA study area. Since, as noted in the response to Comment 4 b) above, no potential Indigenous</p>		



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			<p>the alternatives on the archaeological, cultural and heritage resources in the EA study area were assessed. It should be noted that a fundamental requirement under the EAA is consultation with interested persons, including consultation with First Nation and Métis communities. Consultation with Indigenous communities provides an opportunity for communities to engage in the EA planning process, exchange information and provide opinions about how an undertaking may affect their rights or interests. This includes the identification of any resources within the EA study area upon which Indigenous communities may rely or that are identified as being of significance to a community. It is therefore suggested that consideration be given to ensuring that the assessment of the potential effects of each of the alternative being considered as part of the EA process on the cultural environment include the identification, assessment and comparison of potential effects on any Indigenous resources in the EA study area.</p> <p>s) Subsection 5.10, entitled "Design and Operations", provides a summary of the assessment undertaken as part of review of the anticipated changes to the design and operational requirements of the current Stoney Creek Regional Facility that are associated with implementation of each of the alternatives being considered as part of the EA process. It has been noted that there is no reference to a supporting document in which the assessment that was completed to support the conclusions used as part of the process to identify the anticipated changes to the design and operational requirements that may result from the implementation of each alternative being considered are presented. There appears to be a lack of supporting information to demonstrate how the conclusions of the assessment that was undertaken for each alternative being considered were determined.</p> <p>In accordance with the requirements of subsection 6.1(2)(d) of the EAA, an EA document must consist of an evaluation of the advantages and disadvantages to the environment of each of the alternatives being considered as part of the EA process. As per the expectations set forth in Section 4.2.4 of the Codes of Practice, this should include an explanation about how the potential positive and negative effects, both direct and indirect, of each alternative on the environment, as defined under the EAA, were identified, compared and evaluated. An EA document must clearly explain the environmental planning and decision making process that was followed to determine the advantages and disadvantages of each of the alternatives being considered. The explanation should include reference to all relevant supporting information, such as studies, models or reports, which demonstrate how the conclusions that support how the potential positive and negative effects, both direct and indirect, for each alternative were identified, compared and evaluated. An EA document should also include as appendices or supporting information all studies, models or reports that have been cited. Any interested person reading an EA document should be able to follow the process used by the proponent in determining how the potential effects of each alternative being considered as part of the EA process were identified, compared and evaluated.</p> <p>It is suggested that consideration be given to citing all relevant information that was used to identify, compare and evaluate the anticipated changes to the design and operational requirements of the Stoney Creek regional Facility that may be required to implement each of the alternative being considered; and, that the information cited, such as studies, models or reports, which demonstrates, confirms or validates how the anticipated changes and operational requirements were identified, compared and evaluated be included as part of the draft EA documentation as separate and standalone supporting documents or appendices.</p> <p>Section 6.0 – Detailed Impact Assessment of the Undertaking</p> <p>a) Subsection 6.2.5, entitled "Cultural Environment", provides a summary of the assessment undertaken on the potential impacts to the cultural environment from the construction, operation and decommissioning of the undertaking for which approval under the EAA is being sought. This includes an assessment of the potential impacts of the undertaking on the archaeological, cultural and heritage resources within the EA study area. It should be noted that a fundamental requirement under the EAA is consultation with interested persons, including consultation with First Nation and Métis communities. Consultation with Indigenous communities provides an opportunity for communities to engage in the EA planning process, exchange information and provide opinions about how an undertaking may affect their rights or interests. This includes the identification of any resources within the EA study area upon which Indigenous communities may rely or that are identified as being of significance to a community. It is therefore suggested</p>	<p>resources were identified in the study area, none of the Alternatives are anticipated to affect potential Indigenous resources.</p> <p>Section 5 of the Final EA Report will be updated so that the relevant information used to identify the potential effects of each of the alternatives being considered as part of the EA process, including design and operations, is cited (i.e., studies, models or reports) for demonstration, confirmation, or validation purposes. The relevant information will be included as part of the Final EA Report as separate and standalone supporting documents or appendices.</p> <p>Section 6.2.5 of the Final EA Report will be revised to include an assessment of the potential effects of the undertaking on Indigenous resources in the EA study area. Since, as noted in the response to Comment 4 b) above, no potential Indigenous resources were identified in the study area, the undertaking is not anticipated to affect potential Indigenous resources.</p>		



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			<p>that consideration be given to ensuring that the assessment of the potential impacts on the cultural environment from undertaking for which approval under the EAA is being sought include the identification, assessment and comparison of potential effects on Indigenous resources in the EA study area.</p> <p>Subsection 6.6, entitled "Closure and Post-Closure Planning", explains that as part of the EA process the potential effects from a construction, operation and closure of the undertaking for which approval under the EAA is being sought were reviewed. This included the identification of a range of years in which each of these phases is likely to occur. For the closure phase, it has been identified that decommissioning will occur based upon a future determination that there is no longer an economic opportunity to remain in operation; or, upon the determination that no additional capacity can be accommodated. At such time, the decommissioning of the undertaking will take place in accordance with Ontario Regulation 232/98. It should be noted that the detailed description and assessment of the undertaking for which approval under the EAA is being sought may not be consistent with the requirements of the Act. In particular, it may not be appropriate to defer the description and assessment of the decommissioning phase of the recommended preferred undertaking until a later time.</p> <p>In accordance with the requirements of section 6.1(2)(c)(ii) of the EAA, an EA document is to include a description of the effects that will be caused or that might reasonably be expected to be caused to the environment by the undertaking for which approval under the Act is being sought. This is to include a description of the potential effects, both direct and indirect, that may result from the construction, operation and decommissioning of the undertaking on each of the components of the environment as defined under the Act. As per the expectations set forth in Section 4.2.5 of the Codes of Practice, the description must cover the entire life cycle of the undertaking; and, include sufficient information for the Minister to fully understand the undertaking for which approval is being sought.</p> <p>It is suggested that consideration be given to ensuring that the description and assessment of the undertaking for which approval under the EAA is being sought include, at a minimum, a conceptual description and assessment about the decommissioning of the undertaking.</p>	<p>Under <i>Ontario Regulation 232/98: Landfilling Sites</i>, the owner/operator of the landfilling site must provide a written report (Closure Report) on activities for the closure (i.e. decommissioning) of the site and the proposed end use of the site. The Closure Report must be provided no later than the date 90 percent of the total waste disposal volume is reached or two years before the anticipated date of closure, whichever comes first. Further, under the site's Certificate of Approval, Terrapure is required to submit a complete plan for closure, post-closure, long term maintenance, monitoring, and after-use of the site, including all buffer and landfilled areas. The final plan will include the following:</p> <ul style="list-style-type: none"> • Final site contours and drainage plans; • Operation plans up to site closure; • Details on final grading, cover methods and source of cover materials; • Vegetative cover, landscaping plans • Operation of leachate and gas control; • Long-term groundwater and surface water monitoring; • Proposed maintenance schedules; • Anticipated costs of closure plan (operating/capital); • Updated contingency plans for ground water, surface water and gas; and, • Post-closure ownership of the site. <p>The ECA also requires that the Closure Plan be design in consultation with the Community Liaison Committee (CLC), the City and the Hamilton Region Conservation Authority prior to being submitted.</p> <p>Section 6.6 of the Final EA Report will be revised to include the above information and will include a conceptual description based on the land use controls currently in place.</p>		
			<p>Section 7.0 Public and Agency Consultation</p> <p>a) Subsection 7.4.1, entitled "Agencies Consulted", lists the government agencies that were engaged and consulted with during the EA process. Although the government agencies have been identified, there is a lack of detail about why each government agency was engaged as part of the EA process.</p> <p>In accordance with the expectations set forth in Section 2.1 of the Code of Practice, a proponent who initiates an undertaking that is subject to the requirements of the EAA is responsible for determining those government agencies, Indigenous communities and members of the public that may be affected or may have an interest in a proposed undertaking. Proponents are responsible for identifying, engaging and providing information to any relevant government agencies, Indigenous communities and members of the public that may reasonably be expected to be potentially affected, directly or indirectly, by a proposed undertaking and the alternatives being considered as part of an EA process. The purpose of which is to confirm whether a particular jurisdictional mandate, Indigenous right or stakeholder interest may be affected; and, to determine how a potentially affected jurisdictional mandate, Indigenous right or stakeholder interest should be considered and addressed during the EA process. By not adequately explaining why each government agency, Indigenous community or member of the public was engaged as part of the EA process or how a potentially affected jurisdictional mandate, right or interest was confirmed, considered and addressed during the EA process, it is difficult to understand if their respective jurisdictional mandates, rights or interests have been accurately identified for consideration as part of an EA process.</p> <p>It is suggested that consideration be given to providing an explanation about why each government agency identified was engaged as part of the EA process. This should include, but not be limited to, identifying the legislative mandates, permitting or approval requirements or</p>	<p>Section 7.4.1 of the Final EA Report will explain why each identified government agency was engaged as part of the EA process including, but not be limited to, identifying the legislative mandates, permitting or approval requirements or interests that prompted the initial engagement with each of the government agencies</p> <p>Describing how any potentially affected legislative mandates, permitting or approval requirements or interests were confirmed, considered and addressed during the EA process</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>interests that prompted the initial engagement with each of the government agencies identified. It is also suggested that an explanation be provided to describe how any potentially affected legislative mandates, permitting or approval requirements or interests were confirmed, considered and addressed during the EA process.</p> <p>b) Subsection 7.5.1, entitled "Indigenous Communities Consulted", lists the Indigenous communities that were engaged and consulted with during the EA process. Although the Indigenous communities have been identified, there is a lack of detail about why each community was engaged as part of the EA process.</p> <p>In accordance with the expectations set forth in Section 2.1 of the Code of Practice, a proponent who initiates an undertaking that is subject to the requirements of the EAA is responsible for determining those government agencies, Indigenous communities and members of the public that may be affected or may have an interest in a proposed undertaking. Proponents are responsible for identifying, engaging and providing information to any relevant government agencies, Indigenous communities and members of the public that may reasonably be expected to be potentially affected, directly or indirectly, by a proposed undertaking and the alternatives being considered as part of an EA process. The purpose of which is to confirm whether a particular jurisdictional mandate, Indigenous right or stakeholder interest may be affected; and, to determine how a potentially affected jurisdictional mandate, Indigenous right or stakeholder interest should be considered and addressed during the EA process. By not adequately explaining why each government agency, Indigenous community or member of the public was engaged as part of the EA process or how a potentially affected jurisdictional mandate, right or interest was confirmed, considered and addressed during the EA process, it is difficult to understand if their respective jurisdictional mandates, rights or interests have been accurately identified for consideration as part of an EA process</p> <p>It is suggested that consideration be given to providing an explanation about why each Indigenous community identified was engaged as part of the EA process. This should include, but not be limited to, identifying the Indigenous rights, asserted rights or interests that prompted the initial engagement with each of the communities identified. It is also suggested that an explanation be provided to describe how any potentially affected Indigenous rights, asserted rights or interests were confirmed, considered and addressed during the EA process.</p>	<p>Subsection 7.5.1 of the Final EA Report will be revised to explain why each Indigenous community identified was engaged as part of the EA process including, but not be limited to,</p> <ul style="list-style-type: none"> Identifying the Indigenous rights, asserted rights or interests that prompted the initial engagement with each of the communities identified Describing how any potentially affected Indigenous rights, asserted rights or interests were confirmed, considered and addressed during the EA process 		
			<p>c) Subsection 7.5.6, entitled "Consideration of Comments Received and Issues Raised", provides a summary of the key comments submitted by Indigenous communities during the EA process and an explanation about how they have been considered. As the consultation process for the EA process is still ongoing, and because there is no information about whether Indigenous communities are satisfied about how their comments have been summarized and considered as part of the EA process, no comments have been provided at this time. A full review of this subsection will be undertaken when the EA is formally submitted.</p>	Comment noted.		
			<p>d) Subsection 7.6.7, entitled "Consideration of Comments Received and Issues Raised", provides a summary of the key comments submitted by members of the public during the EA process and an explanation about how they have been considered. As the consultation process for the EA process is still ongoing, and because there is no information about whether members of the public are satisfied about how their comments have been summarized and considered as part of the EA process, no comments have been provided at this time. A full review of this subsection will be undertaken when the EA is formally submitted.</p>	Comment noted.		
			<p>Section 10.0 Amending the EA</p> <p>Subsection 10.1, entitled "Amending the EA", outlines that process that is to be undertaken should it be determined that a change to the undertaking after the completion of the EA process be required, should approval under the EAA be granted. Two amendment processes have been identified, one for minor changes and the another for major changes. It should be noted that the proposed approach to addressing a change to the undertaking after receiving approval under the EAA may not be consistent with the requirements Act. In accordance with the requirements of section 12 of the EAA, if a proponent wishes to change an undertaking after receiving approval to proceed with it, the proposed change to the undertaking shall be deemed to be a new undertaking for the purposes of the Act. In addition, Section 9.2 of the Code of Practice explains that if a proponent wishes to make changes to an undertaking after it has received approval to proceed, the proposed change will be considered a new undertaking for</p>	<p>Section 10 has been removed from the Final EA Report.</p>		



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Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>the purposes of the Act unless such change has been accounted for in the EA or through a condition of approval. It is suggested that consideration be given to clarifying that any change to the proposed undertaking described in the draft EA will have to be considered in the context of the Act, and any legislative requirements under the Act, before any change to the undertaking can be implemented; and, that any proposed change to the undertaking shall be deemed to be a new undertaking for the purposes of the Act unless such change has been accounted for in the EA or through a condition of approval</p> <p>Appendix A: West Central Region's Technical Support Review</p> <p>Surface Water</p> <p>a) Section 6.2.1.2 provided the results of modelling of the 2 year and 100 year storm events for the current approved site (baseline) and the Preferred Landfill Footprint and the proposed preliminary stormwater management measures for quality and quantity control which is acceptable for the Environmental Assessment process. For any future stormwater related amendment to Environmental Compliance Approval No. A181008 and/or Industrial Sewage Certificate of Approval No. 5400-7DSSHU, the stormwater management assessment should assess a variety of events from the 2 year to 100 year storm events for pre-landfill and Preferred Landfill Footprint in accordance with the Ministry document "Stormwater Management Planning and Design Manual, March 2003".</p> <p>Section 9.2.2 identified that Environmental Compliance Approval No. A181008 would need to be amended for changes to the stormwater management system. It should also be identified that Industrial Sewage Certificate of Approval No. 5400-7DSSHU will also need to be amended</p> <p>We conclude that surface water impacts have been successfully addressed for the purpose of meeting the requirements of the environmental assessment. An opportunity for further technical review will be available when applications are made to amend existing servicing approvals.</p> <p>Groundwater</p> <p>Section 4.2 Source Water Protection: The final report should include a figure to show the location of the study area with respect to the Hamilton Source Water Protection mapping</p> <p>Section 5 Geology and Hydrogeology Net Effect: The final report should provide information on the method of construction of the proposed expansion and all other related activities and assess the potential impact on groundwater flow within the study area.</p> <p>Section 5.1 Potential Effects on Geology and Hydrogeology, Tables 5.1 and 5.2: Under the column labeled Active Landfilling Area, how were the active areas are calculated? How was a leachate leakage rate of 4,870 m³/yr predicted</p> <p>Section 5.1.3 Effects on Downgradient Water Quality, Table 5.3: Why was median concentration used rather than mean? Please provide justification for use of median concentration. What are the numbers under the column labeled "Predicted Downgradient Concentrations"? Are they the predicted concentrations or leachate generation rates?</p>	<p>For any future stormwater-related amendment to Environmental Compliance Approval No. A181008 and/or Industrial Sewage Certificate of Approval No. 5400-7DSSHU, Terrapure will include an assessment of a variety of events from the 2 year to 100 year storm events for pre-landfill and Preferred Landfill Footprint in accordance with the Ministry document "Stormwater Management Planning and Design Manual, March 2003". This will be included in Section 9.2.</p> <p>Section 9.2 of the Final EA Report will be updated to include the fact that the Industrial Sewage Certificate of Approval No. 5400-7DSSHU may need to be amended.</p> <p>Comment noted.</p> <p>A figure showing the location of the Study Area with respect to the Hamilton Source Water Protection Area will be included in the Final Geology and Hydrogeology Detailed Impact Assessment Report.</p> <p>Sections 1.2, 1.3, and 3.0 of the Draft Geology and Hydrogeology Detailed Impact Assessment Report briefly describes the Preferred Landfill Footprint with further details including construction and other related activities provided in the Facilities Characteristics Report (Appendix K). With this information in mind, Section 5 identifies the predicted effects to groundwater quality and groundwater flow from the Preferred Landfill Footprint within the Study Area.</p> <p>The Active Landfilling Areas presented in Table 5.1 were derived from the "Active Landfilling Areas" associated with each of the 4 phases of progressive landfill development as calculated and presented in the in the Facilities Characteristics Report (Appendix K). The Design & Operations Detailed Impact Assessment Report (Appendix J-9) provides various Phasing Figures that present the configuration of the landfill under the development phases, including the "Active Landfilling Area". A description of the basis for the calculated leachate leakage rate of 4,870 m³/yr (preferred alternative) is provided in Appendix B of the Design & Operations Detailed Impact Assessment Report. Appendix B attachments B-1 and B-2 provide the details of calculations used to estimate leachate leakage under closure scenarios for both the existing approval (B-1) and the preferred alternative (B-2).</p> <p>Median concentrations were used, as opposed to mean concentrations, as median values are more representative of typical values within a dataset where outliers might greatly affect calculated mean or average values. Mean or average values are appropriate for use in large datasets with normal distributions, however in smaller datasets with higher variability, median values more often provide better representation of "typical" values.</p> <p>The numbers under the column "Predicted Downgradient Concentrations" in Table 5.3 are predicted downgradient concentrations. It is recognized that the header included in</p>		



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				this table is a source of confusion. The table header will be clarified for the Final Geology and Hydrogeology Detailed Impact Assessment Report.		
			Section 5.3 Proposed Mitigation Measures: The proposed mitigation measures include continued maintenance and operation of Groundwater Extraction Well M4, Groundwater Collection Trench Network and the Hydraulic Control Layer. With the final layout of the preferred landfill footprint shown in Figure 1.1, it is not clear as to how Extraction Well M4 will be maintained.	Groundwater extraction well M4 will be maintained by extending it to the final surface of the landfill throughout landfill development and after final closure. This approach is consistent with the approach approved as part of the original Design and Operations Report (1995).		
			Section 7.1.1 Environmental Effects Monitoring: The proposed monitoring network as defined in Table 7.1 should be expanded to include all private wells located within the study area and any newly installed monitors.	A survey of surrounding properties downgradient of the SCRF will be undertaken in order to identify private wells providing drinking water, and these wells will be included in the groundwater monitoring program, as applicable. Private wells located downgradient of the SCRF will be included in the monitoring program if permission is granted by the property owners or tenants. A commitment to complete this survey will be included in Section 8.1.1 of the Final EA Report.		
			Air Quality			
			Given local meteorological conditions, on-site monitoring was appropriately located based on the site residual material fill areas at the time of commissioning of the monitoring station. With the proposed preferred landfill footprint extending its horizontal limits to the north of the site property during Phases 3 and 4, the on-site monitoring station would no longer be in an ideal location based on predominant meteorological conditions within this area. It is acknowledged in Section 5.1 of the Air Quality and Odour Detailed Impact Assessment Report that the MECP Point of Impingement criteria for Suspended Particulate Matter (SPM) may be exceeded when operating near the property boundary. Accordingly, Terrapure should expect that MECP may request additional monitoring to be performed at a more suitable location(s) if off-site SPM becomes a concern to nearby receptors. Table 4.5 in the draft EA report summarizes regional particulate matter having a diameter of 2.5 micrometers (PM2.5) and the rationale for choosing the appropriate station for assessing baseline concentrations at the SCRF site. Current annual averages in regional PM2.5 National Air Pollution Surveillance stations are below the Canadian Ambient Air Quality Standard (CAAQS) for PM2.5. In 2020, CAAQS for PM2.5 will be more stringent and Table 5.2 in the Detailed Impact Assessment Report summarizes assessed cumulative effects indicating potential exceedances of these standards. Due to the growing focus on PM2.5 in ambient air and the proximity of the SCRF to neighbouring residential receptors, consideration may be given to additional monitoring for PM2.5.	Terrapure is aware that the MECP may request additional monitoring to be performed at a more suitable location(s) if off-site SPM becomes a concern to nearby receptors. Terrapure is aware that additional monitoring may also be required beyond 2020 for PM2.5.		
			Land Use Compatibility			
			In our comments on the 2016 draft Terms of Reference, we noted that the obvious impact that will result to neighbouring residents may be is the visual impact associated (real and/or perceived) with the alternatives that include vertical expansion. While the revised document also states that the existing berms and other visual screening will continue being maintained, this will not mitigate the height increase that may result. We previously suggested that in order to assist the public's understanding of this particular impact and facilitate a more realistic comparison of the alternatives, Terrapure could consider including simulations of the alternatives to show the final visual impact of each. Visual simulations have been done quite successfully for other landfill expansion EAs and for Renewable Energy Approvals for wind turbine installations. Evidence of the merit of conducting this kind of visual simulation can be taken from section 9.12 of the revised document, where stakeholder concern with the "Visual impacts – height of the proposed reconfiguration, visibility from the surrounding community, and requirements for additional berms and/or fences" has been stated. In their November 2016 response back to the ministry, Terrapure indicated that it would "consider" the use of visual simulations to better depict the visual impacts of each of the alternatives. Table 6.35 suggests that "relative to the existing conditions, the changes are minimal" and that "installation of visual screening elements will sufficiently obscure a majority of views..." except for residents adjacent to the site along Green Mountain Road to the north and Mud Street to the	A brief written description of the proposed mitigation measures is included in Sections 6.2.2.1 and 6.7 of the Final EA Report. Table 8.3 of the Final EA Report will be updated to include a commitment with regards to the proposed visual mitigation measures.		



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>south. To substantiate this statement, we note that Volume 2, Appendix H provides photographic images of all the alternative configurations taken from 9 locations surrounding the subject area. Also included are photographic images to show the proposed mitigation measures that are proposed to address the visual impacts for Preferred Option 5. While these photographic images are effective, a brief written description of the proposed mitigation measures would add to the reader's understanding of what is intended.</p> <p>Table 8.3 however, does not contain any commitments that speak to the visual impacts that the preferred alternative will create. A commitment to maintain buffers and adhere to its operating plan, best management practices and conditions within the existing ministry approval are for the purpose of mitigating nuisance type impacts. Inclusion of the proposed visual mitigation measures as commitments appears to be missing.</p>			
			<p>Appendix B: Environmental Approvals Services Section, Senior Review Engineer</p> <p>I agree that the preferred alternative is able to be implemented and that compliance with Ontario Regulation 232 (Landfill Standards) can be demonstrated during the technical of the Environmental Compliance approval. The design of the proposed expansion will use the same design as the existing site, which has performed well.</p>	Comment noted.		
			<p>Section 6.1.14 Groundwater Management (Pg 24):</p> <p>The consultant indicates that two methods of estimating the contaminating lifespan of the expanded landfill site were used and both predicted that it would be between 25-50 years which is significantly lower than original estimate (1996) of between 200-300 years. Given that the design of the expanded site is essentially identical to the existing design and 3.68 million m3 of amount of waste is being added, it is difficult to accept, without additional justification, that the contaminating lifespan can be reduced by such a significant amount.</p> <p>Additionally, the calculations were performed for two parameters (chloride and cadmium) with cadmium replacing fluoride as a contaminant of concern. Consideration should be given to considering other contaminants as well, particularly since chloride appears to be present in the waste at a much lower concentration than normally encountered in municipal waste landfill sites. Other contaminants that already have trigger limits established could be considered since these parameters are present in the landfill leachate in amounts that have the potential to exceed trigger limits.</p>	The Final Design & Operations Detailed Impact Assessment Report (Appendix J-9) will provide the additional justification supporting the reduction in the number of contaminating years from the original estimate (1996) including the methodology used, the rationale for the parameters selected, and all calculations and assumptions.		
			<p>Appendix D provides details on the assumptions used to apply the Rowe (1990) method of calculating contaminating lifespan, however, in the application for an Environmental Compliance Approval, additional detail and justification will be expected. Specifically the ECA application should include:</p> <p>The equations and calculations for each method used;</p> <p>A direct comparison to the calculations done previously to estimate a Contaminating Lifespan of between 200-300 years which highlights the assumptions which are now being changed; particularly the ones that decrease the estimate by such a significant amount;</p> <p>Any assumptions being changed should be supported by a ration. ale, including data/evidence collected from the existing landfill site;</p> <p>Consideration to expanding the list of contaminants used to calculate the contaminating lifespan; and</p> <p>Any assumptions made should err on the conservative side</p> <p>However, I am also satisfied that the calculations can be addressed during the ECA approvals process and does not alter the recommendations or decisions being made in the EM process. However, the proponent does need to understand that the ministry does not accept the estimate of contaminating lifespan as presented in the draft EA without more detail and justification.</p>	<p>The ECA application will include the information specified by MECP to ensure the additional detail and justification is provided. This will be included in Section 9.2 of the Final EA Report.</p> <p>Please see the preceding response with regards to the estimated contaminating lifespan presented in the Draft Design & Operations Detailed Impact Assessment Report.</p>		
			<p>Appendix C: Environmental Approvals Services Section, Senior Noise Engineer</p> <p>Section 4:</p> <p>When ambient sound levels are predicted using traffic data, they are to be calculated based on existing traffic data rather than future traffic data.</p> <p>More details of the actual traffic data should be given, with corresponding hourly equivalent sound levels based on the current hourly traffic volumes.</p>	<ul style="list-style-type: none"> GHD will complete modelling to present the current existing conditions on Green Mountain Road using City of Hamilton data turning counts in conjunction with the 		



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			Why were assumed truck percentages used? Was this data not available in the traffic studies?	<p>data from the GHD traffic report. The Final Noise Detailed Impact Assessment Report will be revised to include these results.</p> <ul style="list-style-type: none"> Additional details of the actual traffic data including corresponding hourly equivalent sound levels based on the current hourly traffic volumes will be provided in the Final Noise Detailed Impact Assessment Report. The traffic studies were not inclusive of truck percentages on Green Mountain Road as all traffic counts were collected south of Green Mountain. Assumed truck percentages were used as the traffic studies did not assess future truck percentages on Green Mountain Road. 		
			<p>Section 5: Figure 5.1 shows that there are houses to the west within the 1000m radius. A point of reception should also be selected in that direction. As stated in the Noise Guidelines for Landfill Sites, construction and rehabilitation is assessed apart from other activities. Please also see general notes below.</p>	<ul style="list-style-type: none"> A point of reception to the west of the Stoney Creek Regional Facility will be added in the Final Noise Detailed Impact Assessment Report. All activities on site are construction related and have been assessed accordingly as per the Noise Guideline for Landfill Sites. The specific sources requested for re-examination, if assessed as stationary source, would be in compliance with NPC-300. This would not affect the Facility's construction noise impact assessment. The results of this assessment will be included in the Final Noise Detailed Impact Assessment. 		
			<p>Section 6: Please comment on the net effects of off-site vehicles in particular. The Noise Guideline for Landfill Sites discusses the assessment of off-site vehicle routes in terms of qualitative impact ratings.</p>	<ul style="list-style-type: none"> A qualitative impact rating of off-site vehicles on First Road West, Mud Street and Upper Centennial Parkway will be included in the Final Noise Detailed Impact Assessment Report. 		
			<p>Appendices: Please comment on the degree of possible noise sensitivity of the "ND" (Neighbourhood Development zones) surrounding the site.</p>	<ul style="list-style-type: none"> While these areas are zoned "Neighbourhood Development," they are within Terrapure's property boundary and Terrapure has no plans to develop this land as residential. 		
			<p>General: As stated in the Noise Guidelines for Landfill Sites, construction and rehabilitation is assessed apart from the actual landfilling operations. It is important to distinguish these activities clearly and use the appropriate assessments and sound level limits. If sources can be considered ancillary to the landfill operation itself, they are considered stationary sources and NPC-300 applies. Please re-examine sources such as, but not limited to, the wheel wash station, loaders using sweepers (2 sources) and water truck route to determine if they are part of the landfilling activities. The noise report is to include all required information from the Noise Guidelines for Landfill Sites, including prevailing meteorological conditions at the landfill site, and should be formatted according to that document as well as NPC-233. In Section 06 (Detailed Impact Assessment) of the EA Report, there is mention of screening features that will mitigate noise (as well as visual impact). Are these features, such as berms, accounted for in the noise modelling? Detailed sample calculations should be provided.</p>	<ul style="list-style-type: none"> All activities on site are construction related and have been assessed accordingly as per the Noise Guideline for Landfill Sites. The prevailing meteorological conditions at the SCRF will be included in the Final Noise Detailed Impact Assessment Report and will include a wind rose. The report will also be formatted according to the Noise Guidelines for Landfill Sites as well as NPC-233. The assessment accounts for the topography of Option 5 which is accounted for in the noise modelling but there are no additional berms or screening with the purpose of noise mitigation in the assessment. Detailed sample calculations will be provided in the Final Noise Detailed Impact Assessment Report. CADNA for 1 worst case point of reception will be provided as part of the Final Noise Detailed Impact Assessment Report. 		
			<p>Appendix D: Environmental Approvals Services Section, Senior Waste Water Engineer In general, the preferred alternative landfill expansion is acceptable and I do not have any additional comments or concerns</p>	<p>Thank you for the comment.</p>		
			<p>As outlined under Section 9.1 "Compliance Environmental Approval" of the draft EA, the proponent indicates that ECA amendment will be required only for the existing Waste Site ECA No. A181008. Our IDS record shows that there is an existing industrial sewage works ECA No. 5400-7DSSHU issued on May 1, 2008 for stormwater management facility at the site. Based on this, I would like to point out that an application to amend the existing ECA No. 5400-7DSSHU will also be required for any changes to the existing stormwater management facility at the site.</p>	<p>Terrapure will add the Industrial Sewage Certificate of Approval No. 5400-7DSSHU into Section 9.2 of the Draft EA.</p>		



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			For this purpose, the proponent needs to submit a completed application and a design brief for the upgraded or modified stormwater management facility.			
	2018-11-20	Email	WCR Technical reviewers are satisfied with the responses that were provided to us in draft last week. Accordingly, there is no necessity to discuss the response at the scheduled T/C for this afternoon. However, if you feel that there is value to discuss "next steps in the process", I would suggest that a T/C with myself and Gavin would suffice?	We appreciate your review. We will be discussing next steps with Gavin when we meet with him, Andrew and Jennie in person next week. Therefore if there is no need to discuss the responses, I agree there is no need for the conference call this afternoon.	2018-11-20	Email
Ministry of Tourism, Culture, and Sport	2018-10-03	GRT Webinar on Draft EA	MTCS asked if any Indigenous communities have shown interest/value in the site	Terrapure indicated that they have been in consultation with the following Indigenous communities: <ul style="list-style-type: none"> • Haudenosaunee Development Institute on behalf of Haudenosaunee Confederacy Chiefs Council • Métis Nation of Ontario • Mississaugas of the New Credit First Nation • Six Nations of the Grand River First Nation 	2018-10-03	GRT Webinar on Draft EA
	2018-11-15	Email	MTCS signed and returned the acknowledgment form confirming that they are satisfied with the draft SCRF EA and have no further comments.	Not required.	2018-11-16	Email
Ministry of Transportation	2018-11-21	Email	MTO confirmed via that they are satisfied with the Draft EA documentation and have no further comments.	Not required.	2018-11-21	Email
Ministry of Agriculture, Food, and Rural Affairs (OMAFRA)	2018-12-07	Email	<p>Further to your request for confirmation, I acknowledge receipt of the Terrapure Stoney Creek Regional Facility (SCRF) Draft Environmental Assessment (EA) and provide the following comments.</p> <p>1. As part of our earlier input on this EA, OMAFRA requested that maps and a list of farm businesses and farm operation types in the Local Study Area be included as part of the existing conditions documentation. This request appears to have been partially met through the provision of information identifying the ownership of four properties zoned for agricultural use within 500 m of the Stoney Creek Regional Facility property and crops that may have been grown on these properties. The breadth and certainty of the agricultural information presented in the Land Use and Economic Environment Existing Conditions report (Vol. 2, Appendix E) is noted as potentially limiting a fulsome characterization of agriculture in the Local Study Area. For example, the types of farm operations and potential presence of farm infrastructure (e.g. barns) or other sensitive/unique farm characteristics (e.g. roadside sales of farm produce) is not identified, there is uncertainty and inconsistency in the identification of crops grown in the study area (as noted by wording such as "it is difficult to determine the exact species of flora at these locations," "potentially farmed for corn or soybeans or wheat," "some cleared fields" and "the presence of a fruit or nut tree orchard"). OMAFRA's original information request was designed to ensure sufficient characterization of agricultural businesses, infrastructure and land uses in the Local Study Area, to in turn allow for potential avoidance and/or assessment of agricultural impacts, and effective impact management.</p> <p>It is also noted that separate documentation in the Land Use and Economic Detailed Impact Assessment Report (Vol. 2, Appendix J) describes the location of the same four "agricultural properties/parcels," notes soil capability classifications on these properties, and states, "41 additional properties within the Local Study Area are currently zoned for agricultural use." While the additional soil capability and agricultural property zoning information is helpful, it does not appear to have been included as part of the existing conditions documentation and it's addition still wouldn't allow for a full understanding of the number, location and type(s) of farm businesses, nor the type and extent of agricultural production that is occurring in the area. For example, just because a property is identified as "agriculture" on property assessment rolls or in a municipal zoning by-law, it doesn't mean that the property is actually used for agriculture, and no comprehensive map of agricultural operations, farm buildings (if any), and types of crop production is provided.</p> <p>2. It is appreciated that a list of the Land Use and Economic study team members is provided as part of the Draft EA (Vol. 2, Appendix J) but there is no indication of which study team members were responsible for the collection of agricultural information and the assessment of</p>	<p>Thank you again for taking the time on Monday to discuss the steps to addressing OMAFRA's comments on the Terrapure SCRF DRAFT EA. With that in mind, the following summarizes our approach based on our discussion for your information:</p> <ul style="list-style-type: none"> • Terrapure to engage a professional who specializes in agricultural assessments (i.e., a Professional Agrologist (P. Ag)) from a company that specializes in the assessment and documentation of agricultural and soil resources. • The Professional Agrologist would be responsible for carrying out the agricultural assessment capitalizing on the land use assessment already carried out as part of the SCRF EA. • The study area for the assessment would be within 500 m of the existing SCRF primarily focused on the lands to the east of Upper Centennial Parkway recognizing that the lands south, west, and north of the existing SCRF are designated for urban related land uses and no direct impacts to agricultural activities are expected. • The agricultural assessment would identify the agricultural characteristics of the study area including items such as: type and intensity of existing agriculture, land use, parcel size and shape, land tenure, capital investment in agriculture and collection of crop type (based on crop stubble). • The documentation of the above agricultural characteristics would then allow for assessment of direct and indirect impacts to existing agricultural activities and uses such as; impacts to drainage features, loss of infrastructure, changes in landform, potential effects on farming operation, impact to agricultural character. • Upon completion of the assessment a review of proposed mitigation measures would be conducted to determine if any additional mitigation measures are required. • The agricultural assessment would be documented in a standalone letter report or memo and will include description of methodologies, findings, mitigative measures and conclusions as well as any relevant mapping. The draft document will be provided to Jackie for her review and finalized based on comments received. • A summary of the agricultural assessment will be included in the Final EA Report with reference to the document being made. In light of the planned Final EA Report submission to the Minister for review and approval beginning January 11, 2019, the review and finalization of the draft Agricultural Assessment may continue after January 11, 2019. 	2018-12-14	Email



Table 7.7 Review Agency Comments on SCRF Draft EA and Considerations by Terrapure

Review Agency	Comment Date	Method	Comments from Review Agency	Terrapure's Response	Response Date	Method
			<p>potential agricultural impacts. This information should be provided along with identification of the professional qualifications and experience of such study team members as they specifically relate to the assessment of agricultural impacts. This will assist in demonstrating the qualifications of staff responsible for conducting the agricultural assessment and for contributing to the stated conclusion that "there are no potential effects associated with the Preferred Landfill Footprint relative to the site and adjacent land uses."</p> <p>3. Two technical documentation issues are also noted in the Draft EA:</p> <ul style="list-style-type: none"> • Section 4, page 4-67, the first paragraph references soil class mapping on Figure 4.17; the reference should likely be to "Canada Land Inventory (CLI) soil capability for agriculture" mapping on page 4-68. • Section 6, page 6-59 makes reference to meeting planning objectives set out in the City of Ottawa Official Plan; the reference should likely be to the "City of Hamilton Official Plan." 			
	2018-12-18	Email	Thanks for your email. The proposed approach sounds reasonable.	As discussed during our call on December 10th, 2018, please find attached the Draft Agricultural Characterization memo for your review and comment. Based on the approach discussed during that call we believe this should satisfy any previous concerns and comments.	2019-01-04	Email/Letter
Ontario Provincial Police (OPP)	2018-11-15	Email/Letter	The OPP signed and returned the acknowledgment form confirming that they are satisfied with the draft SCRF EA and have no further comments.	Not required.	2018-11-15	Email



Table 7.8 Indigenous Community Comments on SCRF Draft EA and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
Haudenosaunee Development Institute (HDI)/Haudenosaunee Confederacy Council of Canada (HCCC)	2018-10-18	Meeting	HDI/Terrapure Meeting to review the Project's interference with Haudenosaunee rights and interests including the Haudenosaunee unsurrendered title interest to the lands in question.	HDI/Terrapure meeting to learn more about HDI and present an overview of the SCRF EA.	2018-10-18	Meeting
	2018-10-19	Email	<p>Thank you for meeting with us on October 18, 2018.</p> <p>We confirm the following who were in attendance: Merv Mcleod Blair Shoniker Mike Jovanovic Greg Jones Aaron Detlor Tracey General Todd Williams Brian Doolittle</p> <p>As discussed we reviewed the Project's interference with Haudenosaunee rights and interests including the Haudenosaunee unsurrendered title interest to the lands in question.</p> <p>We have indicated that we are open to negotiating a process by which Haudenosaunee consent can be granted for your Project. Our discussions moving forward would look to a lease of the Haudenosaunee interests with consideration to the Haudenosaunee to include a parcel of land approximating the size of the land used by your Project, revenue sharing and at the same time a determination if there are short term or long term employment opportunities.</p> <p>In terms of revenue sharing we attach the following for your ease of reference: https://www.mndm.gov.on.ca/sites/default/files/rrs_agreement_gct3_-_eng.pdf</p> <p>You had asked for a 'term sheet'. Please accept the following in lieu of a formal term sheet. With respect to land we are interested in the following property: https://www.realtor.ca/real-estate/19814309/single-family-95-newport-road-brant-county-ontario-n3t5l6 As to revenue sharing we are proposing \$0.40 per tonne. We can work on jobs going forward. A tour of the facility was discussed and we have left it with Tracey General and Merv Mcleod to organize.</p> <p>Again it was a pleasure meeting with you and we look forward to meeting in the near future to finalize an agreement.</p>	<p>The Ministry of Environment, Conservation and Parks provided the following response to Haudenosaunee Confederacy Council of Canada and Haudenosaunee Development Institute:</p> <p>Dear Haudenosaunee Confederacy Chiefs Council:</p> <p>I am in receipt of the attached email sent from Aaron Detlor (aarondetler@gmail.com) on your behalf to Merv Mcleod on Friday, October 19th with "Terrapure Facility" as the subject.</p> <p>I would like to offer a response on behalf of the Ontario Ministry of the Environment, Conservation and Parks (the ministry). Please also be advised that we directed Terrapure (the proponent) to contact Six Nations as part of the environmental assessment process, and we have instructed Terrapure through its consultant GHD to continue engaging with you on the environmental assessment (EA) of the Stoney Creek Regional Facility (the project).</p> <p>We understand from Mr. Detlor's email that you believe that the project will interfere with Haudenosaunee rights and interests, including the "Haudenosaunee unsurrendered title interest to the lands in question". Mr. Detlor indicated that you wish to negotiate a process to grant consent, lease interests, share revenue and determine employment opportunities.</p> <p>The province acknowledges that the proposed project is located in the area covered by the Nanfan Treaty of 1701. It is Ontario's view that Nanfan Treaty provides for the continuation of hunting rights by the Six Nations in this area.</p> <p>The proponent has submitted a draft EA report to the ministry for review. Terrapure has indicated to the ministry that a final EA submission is to be submitted on January 11, 2019. Although the final version has not been submitted, it is the ministry's view at this time that the project is not likely to impact the ability of Six Nations' members to exercise hunting rights in the Nanfan treaty area. The Terrapure Facility is an existing waste disposal site located on private land that has been incompatible with hunting rights and other traditional land use practices for many years. Impact management and mitigation measures are expected to continue to provide appropriate protection of ground and surface water, as well as aquatic and terrestrial habitats and biota. Further, monitoring will be in place to make sure predictions made in the EA are accurate and can be validated. Nonetheless, if you have additional information about specific potential impacts to your Aboriginal or treaty rights, please let us know so that we may conduct an analysis and provide a response to any specific concerns you may have.</p> <p>Once Terrapure submits the final EA there is a 7-week comment period. Ministry staff will be in contact with you after the submission of the final EA to ensure you have received a copy of the EA document. If you have any outstanding concerns, we encourage you to submit any comments once the final EA is submitted.</p> <p>Should you have any questions, or if we can be of any assistance in your review of the EA, please contact Jennie Weller at 416-314-7232 or toll free At 1-800-461-6290 or by email at jennie.weller@ontario.ca</p> <p>Sincerely, Annamaria Cross Acting Director Environmental Assessment and Permissions Branch</p>	N/A	N/A



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Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method	
Métis Nation of Ontario (MNO)	N/A	N/A	No comments provided	Not required			
Mississaugas of the New Credit First Nation (MNCFN)	2018-10-10	Telephone	Consultation manager call with Terrapure to discuss questions	Call with Environmental & Regulatory Advisor to review/discuss questions on draft SCRF EA.	2018-11-01	Telephone	
	N/A	N/A	MNCFN provided the following comments via telephone call on October 10, 2018 which were responded to by Terrapure via letter.		2018-11-01	Email/Letter	
			How much will the landfill expand into the existing buffer area to the north, if any? Please clarify the references to 59, 41 and 75 ha.	In the northern part of the site, the footprint for the preferred option will extend into the area that is now approved for industrial fill. This area represents the original footprint approved in 1996 and does not extend beyond the limits of the former quarry. A minimum 30-meter buffer will be maintained between the residual material area and all property boundaries, including in the north. The 75 ha refers to the entire SCRF property. The 41 ha refers to the current limit of the landfill and the 59 ha refers to the proposed limit of landfill for the preferred option.			
			Is it possible for the Mississaugas of the Credit First Nation to obtain the Environmental Management Plan once it is prepared?	Yes, Terrapure will provide the Mississaugas of the Credit First Nation with the Environmental Management Plan. The Environmental Management Plan will be prepared following approval of the undertaking and prior to construction and will include a description of the proposed mitigation measures, commitments and monitoring specifically related to the terrestrial and aquatic environment (e.g. habitat compensation if required and the vegetation monitoring program).			
			Does the City of Hamilton own the former landfill to the west of the SCRF? Who is responsible for monitoring that property? Will Terrapure continue to own the SCRF post-closure?	Terrapure owns the former landfill to the west of the SCRF and continues to conduct monitoring within that property. The property is now occupied by the Heritage Green Passive Park, which is maintained by the City of Hamilton. Similarly, following closure of the SCRF, Terrapure would continue environmental monitoring at the SCRF.			
			If the Environmental Assessment is approved, will there be conditions? Where will it be posted? Would the Mississaugas of the Credit First Nation be notified?	Following the ministry review period, the Minister of the Environment, Conservation, and Parks (MECP) may give approval to proceed with the undertaking, with or without conditions, or refuse to give approval to proceed. As per the Code of Practice for Environmental Assessments, the Project Officer will provide notification of the Minister's decision to applicable Indigenous communities and those members of the government review team who provided comments. In addition, the notice of the decision will be posted on the environmental assessment page of the Ministry's website (https://www.ontario.ca/page/stoney-creek-regional-facility-landfill-expansion). In addition to the notification undertaken by the MECP, Terrapure will also notify all project participants of the Minister's decision and post the notification on the project website (http://www.terrapurestoneycreek.com/).			
			How do you ensure that the environment will be protected for the duration of the contaminating lifespan? How does Financial Assurance work?	The contaminating lifespan is defined as the period of time following closure of the SCRF where contaminants have the potential to leach from the waste above background groundwater concentrations. Hence it also defines the length of time that the base liner system will need to function to ensure contaminants are collected and property treated. Once monitoring indicates that the contaminants leaching from the waste are below these concentrations, monitoring can be discontinued. Currently the contaminating lifespan for the SCRF is estimated to be 200 - 300 years. This timeframe will be confirmed during the detailed design phase of the project. Financial Assurance is a reserve fund required by the MECP for private landfill site owners such as Terrapure. This fund is intended to cover closure (e.g., final cover) and post-closure (e.g., maintenance and monitoring) activities over the contaminating lifespan should the company no longer be able to meet these obligations.			
		Can the Mississaugas of the Credit First Nation be involved in ongoing consultation following completion of the Environmental Assessment (e.g. site tours, monitoring habitat restoration, etc.)?	Terrapure welcomes the involvement of the Mississaugas of the Credit First Nation following the Environmental Assessment. Please advise which activities specifically you would be interested in being involved in.				
		We understand there will be no change to greenhouse gas emissions. However, can anything be done to offset the current emissions?	For this project, most of the existing greenhouse gas emissions are associated with trucks transporting material to the SCRF. The SCRF receives very little putrescible				



Table 7.8 Indigenous Community Comments on SCRF Draft EA and Consideration by Terrapure

Indigenous Communities	Comment Date	Method	Comments from Indigenous Community	Terrapure's Response	Response Date	Method
				<p>material (i.e., organic material that will break down and decompose) compared to other municipal solid waste (MSW) landfills. As such, only a small amount of landfill gas is generated by the SCRF relative to a MSW landfill of the same size. While Terrapure aims to minimize the amount of greenhouse gases generated by the SCRF, there are currently no plans to offset these emissions.</p> <p>The remaining capacity at the SCRF under the current approval is largely related to the importation of industrial fill. The proposed capacity expansion will replace this industrial fill with residual material, and not add to it.</p> <p>The additional capacity Terrapure is seeking through this Environmental Assessment is based on current economics and market dynamics. It has been established based on a reasonable business-planning horizon for the next 10-15 years. If it is determined at the end of the planning horizon (10-15 years) that the economic opportunity is still available, this would be subject to a separate approvals process as required by legislation at an undetermined time in the future. If it is determined at the end of the planning horizon that there is no economic opportunity or the SCRF cannot accommodate additional capacity, then closure of the SCRF would take place.</p>		
			There was a reference that under the existing landfill, there was 10 years of remaining capacity. How many years of operation will the proposed capacity increase add? Has a closure date been determined?			
Six Nations of the Grand River First Nations	2018-11-13	Email	After reviewing the Draft EA Six Nations has no additional comments at this time, we do wish to be kept up to date on the project as it continues. We will review the final EA to see if we have any comment when it is made available.	Thank you for your reply. We will continue to provide you with project updates including the final EA report which we anticipate being submitted in early 2019.	2018-11-13	Email



Table 7.9 Public Stakeholder Comments on SCRF Draft EA and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>Purpose of the Undertaking/Alternatives To the Undertaking</p>	
<p>As a long time community member living near the Terrapure site, I am strongly opposed to the proposal to further increase the site capacity to 10 million cubic meters (m3). I personally believe that Terrapure will not stop seeking increases to this site until the Ministry of the Environment (MOE) stops them. If this EA is approved, years from now the company will find a way to seek a further increase.</p>	<p>Comment noted.</p>
<p>I found the amount of repetition in the documentation monotonous. The same comments were cut and pasted so many times in each section to the detriment of the overall document. It was almost as if the consultants GHD were being paid by the page.</p>	<p>The EA documentation was prepared in accordance with the Codes of Practice for Preparing and Reviewing Environmental Assessments. There is some repetition throughout the EA document which is required to provide background and contextual information to explain the purpose of the technical work. The executive summary provides a brief summary of the main points of the document.</p>
<p>I seriously question how much community feedback you can expect to the Draft EA, based on the unwieldy size of this document and the lack of change that past input has resulted in. The community has provided input to the Draft TOR, the actual TOR, and 3 Open Houses. I have read all of the community input, and with the exception of some form letters that Terrapure asked “friendly” suppliers to write, all of the input from the community has been opposed to a further expansion of the site. I believe there were 78 community responses sent in March 2017 to the MOE stating their opposition to this proposal. In addition, both the Hamilton City Council and the Terrapure Community Liaison Committee have repeatedly stated their opposition to the proposal. In essence, how many times does the community need to say NO?</p>	<p>Public consultation has been conducted in accordance with the Codes of Practice and has been an important component to this EA. The review of the draft EA is just one of the consultation opportunities provided. Previous consultation undertaken to obtain feedback during key milestones throughout the EA process and how it was considered is documented in Section 7.</p>
<p>Executive Summary</p>	
<p>The document states “Based on the current economics and market dynamics for industrial fill, the original market demand is significantly less than what was forecast for that material”. In reality, based on Terrapure Annual Reports, the company hasn’t received any industrial fill material in the 5 years since the change to shrink the footprint for the 6.32 million m³ residual material from 59 hectares to 41.5 hectares.</p>	<p>Information regarding the 2013 ECA amendment is included in Section 1.3. The details provide background and context on the site history and operations.</p>
<p>The Terrapure EA approved in 2013 by the MOE now looks like a big mistake. The company took advantage of this decision to add 4.5 meters in height to the site, but never followed through on putting clean industrial fill in the remaining 17.6 hectares set aside for this change as promised. The new EA now seeks to return that 17.6 hectares representing 2 million m³ to residual material and increase the overall site another 2.5 meters or a further 1.68 million m³ for a total increase of 3.68 million m³.</p>	
<p>Many in the community would argue that if Terrapure can’t meet its commitment to fill the 17.6 hectares with industrial fill, the 2013 amendment should be voided and the company should simply plow the extra height from the 41.5 hectares into the open area, thus reverting to the initial agreement. I support this position.</p>	
<p>There is surprisingly very little in the Draft EA documentation Appendix B – ECA No.A181008 about the rationale for this 2013 EA change considering how important this decision has turned out to be in relation to the current Draft EA. I find it hard to believe that after proposing the 2013 EA change, things suddenly changed so much that the company never proceeded at all with receiving industrial fill. Either it was never really their intent to do so, or they had very poor management at the time of that decision.</p>	
<p>I recommend that the Draft EA should require significantly more detail about why the 2013 change was proposed, the stated benefits to the community of that change, why the company did not proceed with accepting industrial fill in the last 5 years and what happens to the promised benefits to the community now with this Draft EA.</p>	
<p>Page ES-2: I recognize that Terrapure can apply for an EA for whatever they want, BUT the fact that there is a business opportunity for the company doesn’t mean that this location makes sense or in any way infers acceptance by the community. The establishment of a new landfill site should in fact be a reasonable alternative compared to what Terrapure is proposing to the Stoney Creek community. I believe it is important to remember what the initial 1995 site approval as presented in the documentation Appendix B – ECA No. A181008 page 8 says. “Capacity – the maximum volume of waste and cover materials, excluding final cover which may be disposed at the site is 6,320,000 m3. The maximum tonnage of waste and cover materials, excluding final cover, which may be disposed at the site is 10,000,000 tonnes”. Years later when the company determined that the tonnes/m3 ratio was closer to 2.0 than the 1.6 this ratio infers, they sought and received MOE approval to drop the tonnes amount in order to maximize their revenue. If this EA is approved it would represent 10 million m3 or ~20 million tonnes which is twice the original approval. I believe that this EA needs to clearly address how it possibly makes sense to receive twice the volume of material that the site was initially licensed for.</p>	<p>The purpose of the Undertaking as described in Section 3 of the EA, is to increase the approved capacity for post-diversion solid, non-hazardous, industrial residual material by 3,680,000 m3.</p>
<p>The quarry floor back in 1995 was 192 meters above sea level (MASL) and the surrounding lands averaged 205 MASL so the quarry required 13 meters of fill. Yet the initial approval had a peak of 214 MASL, considerably higher than the surrounding lands. Then the 2013 EA increased the height to 218.5 MASL and now this EA would see it go up another 2.5 meters to 221 MASL which would be 16 meters or 52 feet above the surrounding lands. I believe that this EA needs to specifically address why building a 5 story mountain of landfill surrounded by a growing residential community should even be considered.</p>	<p>Section 6 describes in detail the potential effect of the SCRF on the built environment, including on views of the facility, the proposed impact management measures, and net effects.</p>
<p>Page ES-4: As pointed out previously in the Online Open House feedback, the evaluation criteria that the company selected for ranking the 6 alternatives did not reflect the 2 largest concerns of the community; the height of the landfill and the earliest possible closure date. Instead, the evaluation criteria was full of items that provided no differentiation between the alternatives (eg. Terrestrial and Aquatic). I believe that the Draft EA needs to be modified to give commensurate weighting in the evaluation criteria to the height of the landfill and the closure date.</p>	<p>None of the evaluation criteria are weighted as more or less important. The options were compared using the “trade-off” method where advantages and disadvantages were used to identify preferences among the options. This methodology is outlined in Section 7.1.1.2 of the Minister Approved Terms of Reference and described further in Section 5 of the Environmental Assessment Report.</p>
<p>Saying that “the recommended alternative method of Reconfiguration and Height Increase was presented to review agencies, Indigenous communities and the public for comments and feedback, and then was confirmed as the “Preferred Alternative Method” is misleading as it infers that the community agreed with Option 5 and factually it did not. In fact, Terrapure totally ignored the input as</p>	<p>The recommended Alternative Method of Reconfiguration and Height Increase was presented to review agencies, Indigenous communities and the public for comments and feedback. Following consideration of all comments received and based on the results of the Reasoned Argument method, the recommended alternative was then confirmed as the ‘Preferred’ Alternative Method.</p>



Table 7.9 Public Stakeholder Comments on SCRF Draft EA and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>evidenced by their selection of Option 5 which had zero positive comments from community members who took the time to respond to the Open House, compared to Option 1 that had 17 positive comments. This wording needs to be corrected to reflect that the community comments were not taken into consideration and that in fact the community supported Option 1.</p>	<p>This section will be modified in the Environmental Assessment Report to provide greater clarity.</p>
<p>Section 3 - Purpose and Rational for the Undertaking</p>	
<p>Page 3-3: When it is to Terrapure's advantage they speak of a yearly average of 700,000 tonnes received, or ~350,000 m3, but when calculating remaining capacity they only use 250,000 m3. Make up your mind, it needs to be consistent!</p>	<p>Section 3.3 provides an overview of the historic waste volumes received at the SCRF over the past 5 years. The actual annual tonnage, volumes, and remaining capacity are reported in the Annual Monitoring Report. These numbers fluctuate and are updated annually based on operational considerations.</p>
<p>Page 3-4: the document says "the establishment of a new landfill site elsewhere is not a feasible alternative". Simply saying so doesn't make it true. There needs to be way more detail in terms of alternative site availability in the EA showing what sites were considered and reasons why they are not viable.</p>	<p>The assessment of the "Alternatives To" the existing SCRF is described in Supporting Document #1 to the Approved Amended ToR and Appendix C of the Environmental Assessment Report.</p>
<p>Page 3-5: Terrapure lists the benefits of the Undertaking, but once again ignores the negatives in the proposal. The following negatives should be stated clearly in the EA in order to be representative:</p> <ul style="list-style-type: none"> • increased height to 221 MASL or 16 meters (52 feet) above surrounding lands. • negative perception of an unsightly landfill in one of Upper Stoney Creeks busiest intersections. • the potential negative impact on 7,000 neighboring homes. • another 10 – 15 years of site life beyond the 20 years initially promised to the community. • another 10 – 15 years of truck traffic in an area now growing with homes and with a new school coming neither of which existed at the time of the original approval. 	<p>An explanation as to why Alternative Method No. 5 was determined to be the recommended preferred alternative, taking into consideration relative advantages and disadvantages, is included in Section 5.</p>
<p>Greg Jones has clearly stated the benefits to the community and the Ministry of the 2013 ECA that while increasing the height of the 41.6 hectares by 4.5 meters, would replace residual fill in the remaining 17.6 hectares with clean industrial fill. Terrapure has taken advantage of this change to increase the height of the 41.6 hectares, but has totally reneged on its commitment to fill the remaining 17.6 hectares with clean industrial fill, and now with their current EA application all the benefits to the community/Ministry listed below would be negated.</p> <p>In the words of Greg Jones (Managing Director, Communications and Public Affairs for Terrapure) back in the 2013 email below "We believe the revised design is a better all-around option for the site. It would allow more flexibility for future, after-life use of the site; increase the set-back from future residential development along Green Mountain Road; improve the integrity of the liner and leachate collection system from the original design concept; and avoid having to move the site entrance to Mud Street opposite Penny Lane Estates".</p> <p>Please consider the 2013 Newalta commitments as you prepare your response to my comments as I have shared all this information with the Toronto office of the MOE.</p>	<p>In 2013, the size of the residual material footprint at the SCRF was reduced from the originally approved 59.1 hectares (ha) to an area consistent with the base liner system that had been constructed to date at that time. There was no change to the approved total disposal volume (6,320,000 m3), and the reconfiguration effectively added to the height, while shrinking the overall residual material footprint to approximately 41.5 ha. In addition to a smaller residual footprint, the SCRF was permitted to accept approximately 2,000,000 m3 of industrial fill to complete the final grading in the section of the section of the Site that would no longer receive residual materials. Information on the 2013 ECA Amendment is included in Section 1.3 of the EA Report.</p> <p>The benefits stated at that time related to the proposed 2013 ECA Amendment. The current EA is a separate approvals process, taking into account the site history and previous approvals, including the 2013 ECA Amendment.</p> <p>Similar to how the benefits of the ECA Amendment were considered in 2013, the current Environmental Assessment assesses the advantages and disadvantages of the proposed Undertaking for the Minister of the Environment, Conservation and Parks' consideration. Since 2013 the market demand for industrial fill has dropped significantly, affecting the financial viability of the SCRF under the current approvals while the market demand for residuals has increased and is much stronger and more consistent than that for industrial fill. As a result Terrapure conducted a Business Case Analysis, which concluded that there is a clear need to provide additional residual material capacity for the local and regional customer base to support the economy for the foreseeable future.</p>
<p>Regarding Blair Shoniker's attached December 20, 2018 response to my November 23, 2018 submission, I would like to be clear that I found the company's response totally inadequate. The response did not address whatsoever how the company plans to respond to the 5 community benefits listed below that were clearly stated in the 2013 ECA proposal. These commitments were key to getting the 2013 reconfiguration approved, and if they now will be eliminated by the 2018 EA proposal, the company needs to explain why these important benefits to the reconfiguration in 2013 are not still important today.</p> <p>While I understand that the 2013 ECA and 2018 EA are separate approval requests, I don't support ignoring the facts of the 2013 approval. The Ministry's approval of the 2013 reconfiguration was based on the trade-off of increased height in the 41.5 hectares versus the 5 benefits of the change to the community with the reconfiguration. Had the 2013 ECA simply sought an increased height without any corresponding improvements from the community's standpoint, there would have been significantly more negative input from the community and likely an outright rejection by the Ministry. So you can't ignore the loss of these benefits now.</p> <p>To propose the 2013 ECA reconfiguration and then not receive 1 truckload of clean industrial fill in the 17 hectares during the 5 intervening years was either gross incompetence by the proponents management team, or a scam whereby it was never the intent to fill the 17 hectares with clean industrial fill. Regardless of which of these two is correct, neither should be rewarded by allowing the current proposal to proceed and negate the promised benefits to the community of the 2013 ECA change.</p> <p>This is an important issue for the community and a critical change from the 2013 agreement, and as such I would suggest that detailed information on the loss of these 5 community benefits must be included in the company's final EA submission.</p> <p>Please confirm that the company will in fact fully address the loss of the 5 community benefits in the final EA submission.</p>	<p>We maintain our previous response that the items referred to related to the proposed 2013 ECA Amendment. The current EA is a separate approvals process. As such, the current Environmental Assessment assesses the advantages and disadvantages of the proposed Undertaking, as is required by the MECP.</p>
<p>Section 4 – Description of the Environment Potentially Affected by the Undertaking</p>	
<p>Page 4-93 thru 4-100: the document states "views of the SCRF from the surrounding built-up areas are generally obscured". This is no longer true with the increased height and this wording needs to be removed from the EA. Waste can be seen from points in any of the 4 directions, and more clearly during the countless times that the wind has blown down the fence screening. The 40 pictures selected are not representative of what the community sees today at the site and need to be updated to reflect some of the less flattering ones, specifically some pictures from the dog park on First Road West or by Dofasco Park on First Road East where the site already appears like a mountain on the horizon.</p>	<p>Section 4.3.3.2 describes the existing environment surrounding the SCRF and includes the details for the areas where locations from the SCRF are somewhat visible. The photos included in this section were taken in September 2017 and are satisfactory for the purposes of the Environmental Assessment.</p>



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Section 5 – Alternative Methods of Carrying Out the Undertaking	
<p>As stated above and previously in my Open House comments, the evaluation criteria was poorly constructed as it was filled with criteria that didn't differentiate between the alternatives and didn't include those important to the community. This made the entire ranking process and selection of Option 5 a joke. It appears that the company selected evaluation criteria that would allow for their favored option to come out on top.</p> <p>The company said they wanted feedback from the community on the options; the community provided 17 positive comments pertaining to Option 1, none to Option 5, and the company selected Option 5. The reason for this needs to be clearly explained in the EA.</p>	<p>The environmental components were selected to reflect the broad definition of the environment under the Environmental Assessment Act, specifically the natural, social, economic, cultural, and built environments. These components are consistent with other EAs undertaken throughout Ontario, and were confirmed in the Minister-Approved Amended Terms of Reference.</p> <p>Since none of the feedback received on the recommended option changed the results of the comparative evaluation, Option 5 was confirmed as preferred (see Section 5).</p>
<p>To the community, it appears that Option 5 is simply more "greedy" than Option 1 as it adds an additional 1.68 million m3 representing an additional \$168 million in revenue.</p>	<p>As described in Section 5 of the Environmental Assessment Report, Option 5 was recommended as it represents:</p> <ul style="list-style-type: none"> • A technically feasible design that provides for the additional capacity being sought through the EA. This will allow Terrapure to continue to support the growing local economy by providing disposal capacity for industrial residual material generated within Hamilton and the GTA. • A lower height increase compared to Alternative Method Nos. 3 and 6, which can be screened through such measures as constructed berms, tree plantings, fencing, etc. • A low potential for adverse effects to the natural environment which would be further minimized through the use of standard impact management measures. • Maintains the existing stormwater management ponds. • A low potential for adverse effects to area residents which would be further minimized through the use of standard impact management measures. • Maximizes the economic benefits to the City of Hamilton, Upper Stoney Creek, and local industry.
<p>Page 5-78: Effect on views of the facility should be Green for Option 1, not Yellow as there is no increase in volume.</p>	<p>As previously noted in our responses on May 14, 2018 and June 19, 2018, the ranking for the "Effect on views of the facility" was based on visual impact and the ability for it to be mitigated, rather than height in and of itself, as this better represents the impact that residents will experience. Option 1 resulted in a yellow circle as opposed to green, because even though there is no height increase from the existing approved contours, there would be a change from what is currently visible.</p>
<p>Page 5-79: Effect on traffic should be Red for all options other than Option 1 as they require the site to stay open longer and hence a longer period of truck traffic.</p>	<p>Since the number of trucks per day allowed to the Site will not change with any of the options, there is no increased potential for collisions or increases to level of service at any of the intersections. Therefore, none of the Options present effects to Traffic (see Section 5).</p>
<p>Potential to provide service for disposal should be Yellow for Option 1 not Red as it permits an additional 2 million m3 of residual.</p>	<p>As previously noted in our May 14, 2018 response, the criteria "potential to provide service for disposal" is related to the ability for Terrapure to provide up to 3,680,000 m3 of additional disposal capacity for post diversion solid, non-hazardous industrial residual material that was outlined in the Approved Amended Terms of Reference. The differences in the rankings reflect that the different Options provide different amounts of disposal capacity. Options 3, 5 and 6 would all result in the greatest disposal capacity -- and the ability to meet the additional capacity outlined in the Approved Amended Terms of Reference -- while Option 1 and 2 would result in the least capacity -- and would not be able to meet the additional capacity outlined in the Approved Amended Terms of Reference.</p>
Section 6 – Detailed Impact Assessment of the Undertaking	
<p>Page 6-1: the document says "The Recommended Landfill Footprint was confirmed taking comments into consideration". As addressed above, this is not true and should be removed from the document.</p>	<p>Similar to our response to question #8, this sentence will be modified to provide greater clarity.</p>
<p>Page 6-59: the document states "The project has the potential to affect up to ~7,000 properties due to disruption of their use and enjoyment of property resulting from nuisance effects. That is a pretty big negative hidden deep in the thousands of pages of this document.</p>	<p>The potential cumulative effect of disruption to use and enjoyment of private property identified on page 6-59 will be mitigated through the impact management measures described on page 6-69. The significance assessment for the residual adverse effects, taking into account magnitude, extent, duration, frequency, and performance, is described in Table 6.26. The significance of this effect was determined to be minor or not significant.</p>
<p>Landfill Truck Travel Patterns: At Page 6-2, the proponent states that no waste vehicles will be permitted on Green Mountain Road. We support this approach, particularly given the significant amount of residential development that exists and continues to be built along and north of Green Mountain Road. We also understand that a school is proposed for the northwest corner of Green Mountain Road and First Road West – another important reason not to allow trucks to travel along this stretch. But we do remain concerned about the fact that trucks will travel from the First Road West exit south along First Road West to Mud Street. This street is becoming busier as residential development continues north of the landfill. Meanwhile, the Heritage Green Sports Park is also becoming a more popular destination for community members. Recent experience has confirmed for us that it is often challenging to safely exit the Sports Park because of increased traffic volumes. We note, too, that the landfill exit is in very close proximity to the park entrance/exit – with the landfill exit situated almost immediately north of the park entrance/exit. We wonder whether this has already generated risks and conflicts. Is there a safe route to and from the new neighbourhood to the north for those walking or biking to the park? Do car/truck conflicts emerge because of this mix of local residential traffic, broader regional traffic into the park, and the truck traffic from the landfill?</p>	<p>The safety of our employees, customers and the community is Terrapure's highest priority. The detailed traffic impact assessment carried out as part of the Stoney Creek Regional Facility Environmental Assessment (SCRF EA) determined that traffic from the SCRF from continued operations is not expected to result in any safety concerns for the community. In addition, the City of Hamilton will be reconstructing First Road West to an urban standard from north of Green Mountain Road south to Mud Street.</p> <p>As a result, the road allowance will be widened a total of 10 feet and sidewalk will be constructed on the west side of First Road West. This will allow pedestrians safer access to the Sports Park and Dog Park.</p> <p>Also, Terrapure is in support of a 40 km/hr speed limit as recommended by the Hamilton-Wentworth District Catholic School Board (HWCDSB) and Terrapure will continue to work with the City of Hamilton to discuss and resolve any traffic safety concerns as they arise during operation of the SCRF.</p>
<p>Remaining Questions Surrounding Service Area for Landfill: In addition to participating in the consultation associated with the individual environmental assessment for this proposed landfill expansion, we have been actively involved in the public commenting process for the company's application to amend its ECA – waste processing – for its 52 Imperial Street facility in lower Hamilton. As part of that process, we had the opportunity to talk with staff from that facility. We continue to wonder what percentage of the waste received at that facility ends up at the Stoney Creek landfill. While the landfill itself is approved to accept waste from the Province of Ontario, 52 Imperial Street is permitted to accept waste from across Canada and the United States. We understand that, once processed at 52 Imperial Street, waste is then considered to be from Hamilton and eligible for disposal at the Stoney Creek facility. We wonder what amount of waste falls into the category of being from outside of</p>	<p>Typically, less than 5% of the total tonnage received at the SCRF from Imperial Street on an annual basis comes from outside of Ontario.</p>



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<p>Ontario – then processed at 52 Imperial Street – and ultimately landfilled at the Stoney Creek facility? This is a question worth reflecting on because the proposed expansion being requested by the proponent is being framed in terms of local need for disposal capacity. We would like a better sense of how much material is currently being generated (not processed) by Hamilton facilities versus how much is coming in from outside of Ontario to Imperial Street and then the Stoney Creek landfill. And we wonder whether, if the expansion is granted, there exists potential for the ‘out of Ontario’ waste streams to grow. This is a fair question – given that it is this community that must shoulder both the benefits and the negative impacts of the landfill.</p>	
<p>Landfill Height: We are also trying to get a handle on the FINAL height of this landfill, if the proponent succeeds in getting approval for its preferred Option 5. It is stated that Option 5 results in a 2.5 meter (or 8.2 foot) increase in final landfill height. The landfill diagrams in the report that include height contours are very difficult to read. As far as we can ascertain, the final height could be as much as 14m (45 feet) or greater at the highest point of the landfill. This is almost equivalent to the height of a 5 storey building – making the final height the highest point in the surrounding area. This is a concern for us – especially given that we had been led to believe that there was a general movement away from permitting landfills with such height.</p>	<p>The preferred landfill footprint (Option 5) has a height increase of 2.5 m at its peak (218.5 to 221.0 masl) compared to the currently approved SCRF. We are currently unaware of any movement (e.g., policy, regulation, etc.) in Ontario that is limiting the permitting height of a landfill.</p>
<p>Surface water and total suspended particulate: At Page 6-13, the proponent explains that, with the preferred Option 5, the increase in height combined with the change in material landfilled (all now solid, non-hazardous industrial residual material) which, in turn, results in a lower permeability cover and faster overland flow of stormwater, there is a greater potential for increased levels of total suspended particulate in stormwater flows. There will also be increases in peak flows and runoff volumes. While explanations are provided regarding how steps will be taken to ensure that TSS will not impact nearby Davis Creek, we continue to have concerns about the risks associated with the scenario described. It would appear that planning has focused on storms no larger than a ‘regional storm event’ or a 100 year storm. We have profound concerns about the fact that this is the largest storm event considered – especially given recent history in this watershed. In less than a decade, there have been at least 2 major rainstorms that have exceeded the magnitude of a 100 year storm. It would seem prudent, in light of this climate-related trend, for the proponent to plan for scenarios greater than a 100 year storm. We are not confident that the measures in place to protect the Davis Creek, and the landfill’s stormwater infrastructure for that matter, are adequate given the failure to assess beyond the 100 year storm level. While a shut-off valve system is described as the main method for containing stormwater if there is a quality problem, we wonder whether this system will continue to work if we experience a larger than 100 year storm event.</p>	<p>The detailed impact assessment of the Preferred Landfill Footprint (Section 6.4 of the EA Report) assessed the risks of increased climate change effects on the Undertaking including the frequency and/or severity of precipitation and weather extremes. The assessment adhered to the following provincial and federal guidelines for climate change considerations:</p> <ul style="list-style-type: none"> • Consideration of Climate Change in Environmental Assessments in Ontario (Ministry of the Environment and Climate Change) • Incorporating Climate Change Considerations in Environmental Assessment: General Guidance for Practitioners (Canadian Environment Assessment Agency) <p>The stormwater management system has been designed to accommodate a Regional storm, which is much greater than the historical daily maximum precipitation amount of 107 mm and the rainfall depth estimated for the 100-year storm event for the SCRF of 127.8 mm.</p>
<p>Assessment of 100 Year Storm flows: At Page 6-17, in Table 6.6, the proponent explains that the increased area of residual material results in an increase in impermeable area due to the residual material final cover.’ Further, it is explained that ‘This will produce an increase runoff volume of 11% during the 2-year storm event and 6% during the 100-year storm event. Increased runoff volume will result in increased flooding ditches to the northwest, in the sewer below First Road West and Davis Creek. Erosion of the creek and ditches may also occur because of the increased runoff volume.’ We wonder whether these figures are correct. Would it not be the case that the runoff volume would be greater for a 100-year storm event than it would be for a 2-year storm event? If these percentages are, indeed, correct, it would be useful to share estimates of the actual volumes of runoff so that the reader has a sense of the magnitude involved. Please clarify this issue for us!</p>	<p>The percentages included are correct. With Option 5, the industrial fill area is replaced with residual material. The previously allocated industrial fill area would not have a cap. In comparison, the residual material will have a cap, which results in less infiltration and more run-off since water can only infiltrate the top layer of topsoil above the cap. During the 2-year storm event, this difference in infiltration is more dramatic, which results in the larger percentage increase of 11%. Whereas, during the 100-year storm event, there is much more run-off due to the intense rainfall, resulting in the ground becoming saturated. The saturation would occur in both the residual material and industrial fill during the larger rainfall event, however, there is less ability to infiltrate in the 100-year event, regardless of scenario, hence the smaller percentage increase of 6%. Terrapure will revise Section 6.2.1.2 of the Final EA Report to provide further clarification.</p>
<p>Air Quality Concerns At Page 6-22, it is explained that ‘When operations are particularly close to the fenceline, it is possible that the MECP’s SPM standard may be exceeded (up to 5 times per year or 1.3% of the time), including background contributions to air quality.’ We are concerned about this possibility, especially when the contributions are happening close to the recreational area where people – especially kids and seniors – may be out exercising and potentially exposed. We expect that the times of year when it is most likely there will be higher levels of SPM are during hot, dry periods in the summer. We urge the proponent to consider measures above and beyond to ensure that no particulate emissions are added to the local airshed- especially during these times of year. At Page 6-23, the company explains that ‘...it was assumed the Site would achieve a 75% overall re-suspended road dust suppression. This is highly achievable in this area, as Hamilton already receives measurable precipitation 156 days per year (Environment Canada, 2018), providing natural dust mitigation, so additional watering on dry days should provide adequate dust suppression.’ We wonder whether consideration was given to the very real possibility of long, hot, dry summers when dust mitigation will be far more challenging. We have seen both extremes in the Hamilton area – very wet summers, but also very dry summers. The proponent must be prepared for either extreme as we continue to see each of these extremes with climate change.</p>	<p>Terrapure is committed to meet Ministry of Environment, Conservation, and Parks (MECP) air quality guidelines, as stated in Section 6 of the Draft EA Report. In order to meet this commitment, the existing Dust Management Plan will be updated to bring the plan into alignment with MECP’s latest guidance “Technical Bulletin: management approaches for industrial fugitive dust sources” (updated February 14, 2018).</p> <p>With the updates to the Dust Management Plan, specific dust mitigation measures will be employed, as identified in the Draft EA Report. Specific dust mitigation measures will ensure that adverse air impacts are managed throughout the operations at the SCRF and during all weather conditions, including long, hot, dry summers and very wet summers. Daily watering will be carried out at the SCRF during long, hot, dry summer days if required.</p>
<p>Potential Effects on Noise At Page 6-25, the proponent explains that ‘Up to 75 off-Site residential dwellings located in the Study Area will be potentially impacted by noise from the landfill activities. The predicted noise impacts at the residential areas range from 40 to 60 dBA (rounded). The existing and potential residences near the north of the landfill may be the most impacted as they are either approaching or exceeding the current 55 dBA daytime noise limit for the landfill design Preferred Landfill Footprint. The increased height of the landfill in addition to the shortened separations distance to residential areas for the Preferred Landfill Footprint will result in a potential changes to the line-of-sight noise impact exposure to the off-Site residential dwellings.’ The proponent then goes on to state that ‘Since noise levels estimated at all PORs will meet the MECP sound level limit for Landfill operations or the Site-specific noise limits based on road traffic predictions, no noise impact management measures are required.’ This latter statement seems to contradict the highlighted information above. We would like additional explanation regarding noise impacts and the need for mitigation. We note, further, that the proponent acknowledges at Page 6-37 that ‘The closest residential dwelling (currently under construction) is located approximately 35 m north of the Site.’</p>	<p>All PORs will meet the current MECP noise limits or future Site-specific noise limits. Section 6.2.1.5 will be revised to clarify this.</p> <p>Based on the proposed equipment and operating locations, Terrapure will meet the minimum MECP noise limit of 55 dBA during phases 1-2 of the SCRF expansion. In the future it is predicted that there will be a new site specific limit of 60 dBA resulting from the completion of the new residential developments. The reason for this increased limit is the associated increase to the volume of road traffic from these developments which will increase the background noise levels in the area. Phases 3 and 4 of the SCRF expansion are expected to begin after these new residential developments are completed and are therefore assessed against these elevated site specific noise limits. Based on the proposed equipment and operation locations, Terrapure will be in compliance with these elevated site specific limit during Phases 3 and 4 of the SCRF expansion.</p>



Table 7.9 Public Stakeholder Comments on SCRF Draft EA and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>Estimated Sensitivity of the Proposed Undertaking to Climate Change While we appreciate that the proponent opted to consider climate change when assessing the preferred option, we are concerned that the assessment is not rigorous enough. At Page 6-69, Table 6.33 provides an assessment of sensitivity to climate impacts during construction, operation, closure and post-closure. One specific climate parameter considered is <i>Frequency and/or Severity of Precipitation and Weather Extremes</i>. For this parameter, an 'estimated sensitivity to climate change' is assessed at LOW for each stage of landfill operation based on the explanation that: 'The landfill components have been designed to accommodate a Regional storm event. The Site has sufficient area to increase the stormwater works to accommodate larger storms. The system is designed to return to normal operating conditions within two days.' Again, as we have already stated in a section above, in recent history (between 2009 and 2018) there have been at least two extreme rainfall events (>100 year storm) within the vicinity of the landfill facility. There is a need to consider a larger than 100 year storm event when assessing the potential impact of extreme rainfall on the landfill – particularly on the facility's stormwater management systems. We simply do not accept the proponent's assessment that the sensitivity is LOW for this climate parameter.</p> <p>Assessment of potential to divert waste streams from the landfill site In our submission on the draft Terms of Reference, we raised the possibility that there are waste streams being received at the Stoney Creek facility that could be diverted because they are waste streams <i>that are being diverted</i> in other jurisdictions. One example we highlighted in our submission is foundry sand. It is our understanding that other jurisdictions have made progress in ensuring materials like this are reused rather than landfilled. We readily found detailed information through the United States Environmental Protection Agency that speaks specifically to the need to and viability of recycling spent foundry sand from the iron and steel sector (see https://www.epa.gov/smm/beneficial-uses-spent-foundry-sands). The fact that this waste stream is being actively diverted in other jurisdictions led us to ask why this is not the case in Ontario and, further, why this would be referred to as a waste stream for which all recycling options have been exhausted. We hope that, as part of its efforts to 'evaluate the feasibility and viability of implementing an on-site diversion program as part of the environmental assessment process', the company seriously explores all of the opportunities to divert waste streams – including streams that may not currently be diverted in Ontario, but are being actively and effectively diverted in other nearby jurisdictions like the United States.</p>	<p>The detailed impact assessment of the Preferred Landfill Footprint (Section 6.34) assessed the risks of increased climate change effects on the Undertaking including the frequency and/or severity of precipitation and weather extremes. The assessment adhered to the following provincial and federal guidelines for climate change considerations:</p> <ul style="list-style-type: none"> • Consideration of Climate Change in Environmental Assessments in Ontario (Ministry of the Environment and Climate Change) • Incorporating Climate Change Considerations in Environmental Assessment: General Guidance for Practitioners (Canadian Environment Assessment Agency) <p>The data used for the analysis, the Rainfall Intensity Duration Frequency (IDF), meets the current guidance requirements. The stormwater management system has been designed to accommodate a Regional storm, which is much greater than the historical daily maximum precipitation amount of 107 mm and the rainfall depth estimated for the 100-year storm event for the SCRF of 127.8 mm.</p> <p>As per the Minister-approved Amended Terms of Reference, an assessment on the feasibility and viability of on-site diversion at the SCRF is included in Section 6.5 of the EA Report. As stated in Section 6.5, the diversion technologies available would not be technically feasible or economically viable, and the infrastructure associated with the technologies would require greater space than currently available on-site at the SCRF. Terrapure will continue to investigate emerging technologies for potential diversion options, both on and off-Site, as part of providing services to the marketplace that minimize waste and maximize the recovery or recycling of valuable industrial by-products.</p>
<p>Section 7 – Public and Agency Consultation Page 7-71: the document still has the old incorrect answer to Open House #3 where Terrapure incorrectly stated "We have selected a preferred option with the lowest height of all options". Terrapure has subsequently acknowledged this error, and that correction needs to be included in this document.</p>	<p>This statement will be corrected.</p>
<p>General I believe that there are many things that are wrong with the Draft EA that I have articulated above, but none more important than my comments from the Executive Summary section page ES-1. The company reached an agreement with the MOE in 2013 to add 4.5 meters in height to 41.6 hectares of the site in return for committing to put clean industrial fill in the remaining 17.1 hectares closest to the new housing community. The company has fully taken advantage of the change to add the 4.5 meters in height to the 41.6 hectares, but has totally reneged on their commitment to put clean industrial fill in the remaining hectares. That in itself should disqualify Terrapure from achieving a successful result to a subsequent EA. Consequently, I call on the MOE to stop the EA process at this time and reject the Draft EA based on Terrapure's failure to comply with the actions from the 2013 EA agreement. We have also reviewed the staff report prepared for the City of Hamilton and presented at the September 18, 2018 Planning Committee meeting. In that report, planning staff reiterate that Hamilton City Council continues to oppose the proponent's application to increase the capacity of the landfill. Staff also provided a list of outstanding concerns that they indicate have not yet been adequately addressed by the proponent. Some of these items appear to be significant and we are interested in being kept informed about Terrapure's response to these items.</p>	<p>Comment noted.</p> <p>All responses to comments received on the Draft EA Report will be documented in Section 7.10 of the Final EA Report and be available for review by all stakeholders including Environment Hamilton.</p>
<p>We would also like to restate the concerns we raised in our submission on the draft Terms of Reference, because these concerns continue to exist for us within the context of this proposal to expand the capacity of the Terrapure landfill. In reviewing information about residential development activity around the landfill site, we learned that municipal planning decisions were influenced by the changes to the landfill footprint that were approved back in 2013. Holding provisions were lifted and tracts of land developed as a result of the 2013 changes. We therefore continue to be very concerned that Terrapure has put forward a preferred option that impacts on landfill footprint and height and reduces the buffer zones between potential landfilling areas and current and future residential developments. While we understand that the development decisions were made at the municipal level, there are implications as far as this landfill and the nature of potential future activities at the site and the impact of these activities on surrounding, sensitive land uses. Terrapure does acknowledge that there are and will be residences in close proximity to the site, but no details are provided regarding the dynamic that has evolved where municipal planning and MOECC Guideline D-4 related assessments and requirements are concerned.</p>	<p>As documented in Section 6.2.1 of the Draft Land Use and Economic Impact Assessment Report, the potential effects of the Preferred Landfill Footprint on future approved and planned land uses was assessed. It was determined that the Preferred Landfill Footprint, and relative 30 m buffer, will have no impact on approved and planned residential development. With regards to the lifting of the holding provisions, in order for the Hold to be lifted on Empire's lands, the developer had to meet and satisfy 3 conditions, only one of which was attached to Terrapure lands (SCRF), but with no specific reference to the operating landfill itself: "That all residential lands within 160 metres of the working licensed limits of an active quarry or the limits of a former quarry under rehabilitation shall not be developed until such time as the completion of mining and the completion of rehabilitation on the quarry lands immediately adjacent to the residential holding zone have been finalized to the City's satisfaction." Terrapure is not aware of a document that addresses the above noted condition of the Hold provision. If the City used the 2013 amendment to the SCRF footprint as part of its justification to remove the Hold, then only the limit of waste changed. Industrial fill was still approved to be placed within 30m from the property boundary, in order to continue the rehabilitation of the former quarry lands, matching the previously approved landfill footprint limit of waste. This would also correspond with the limits of the former east quarry. Since the lifting of the holding provisions is not directly related to the potential adverse effects of the Preferred Landfill Footprint on approved or planned land uses, this information was not included in the Draft EA Report. The Landfill Impact Assessments, conducted in accordance with Guideline D-4 (i.e., the reports completed by MTE, AMEC and UrbanTech) concluded that the SCRF did not pose an issue or risk to the proposed development lands. This information will be added to the Final Land Use and Economic Impact Assessment Report.</p>



Table 7.9 Public Stakeholder Comments on SCRF Draft EA and Consideration by Terrapure

Comment Received from Member of the Public	How the Comment was Considered
<p>The reality is that there are implications should the proponent secure approval to revert back to a larger footprint for solid, non-hazardous industrial residual waste at this site. The site reconfiguration set out in Option 5 has implications for 'sensitive use' developments that are already happening or proposed for the future. Even the more detailed 'Supporting Document #3 – Land Use and Social Environment Existing Conditions Report' fails to get into these details and the understandings regarding development challenges caused by the proximity of the landfill to these residential areas. This list of reports provided information to us regarding the challenges around residential development surrounding the landfill site that has already been developed, is currently under development, or is proposed for future development:</p> <p>MTE Consulting. February 8, 2010. Red Hill Developments, Empire Communities & 706870 Ontario Limited Nash Neighbourhood – FINAL – Revised Landfill Impact Assessment. AMEC. September 20, 2010. Peer Review of the Revised Landfill Impact Assessment dated 14 September 2010 for the Proposed Red Hill Developments, Empire Communities and 706870 Ontario Limited Nash Neighbourhood Hamilton, Ontario. 6</p> <p>UrbanTech West. October 2, 2014. Amendment to the Review Landfill Impact Assessment Report – Redhill Developments, Empire Communities and 706870 Ontario Limited.</p>	<p>The potential adverse effects of the Preferred Landfill Footprint on the surrounding existing, approved and planned development were assessed as part of the EA taking into account the last 20 plus years of operations at the SCRF. With the operations history in mind, the potential adverse effects on the surrounding development from the Preferred Landfill Footprint are anticipated to be as follows:</p> <ul style="list-style-type: none"> • Noise • Odour • Visual <p>Similar to how the current operations at the SCRF are managed, the preceding potential adverse effects will be minimized by applying industry standard impact management measures such as:</p> <ul style="list-style-type: none"> • Maintain buffers for nuisance reduction; • Basic landfill operations for nuisance mitigation; and • Best Management Practices (BMPs) for nuisance mitigation. <p>The preceding information is documented in the Draft Land Use and Economic Impact Assessment Report (August 31, 2018). In addition, as mentioned, the MTE, AMEC and UrbanTech reports indicated that the SCRF did not pose an issue or risk to the proposed development lands. This information will be added to the Final Land Use and Economic Impact Assessment Report.</p>
<p>In conclusion, we appreciate the opportunity to provide input on the Individual Environmental Assessment Draft EA Documentation. We have provided some detailed input on issues and concerns related to what we reviewed in the documentation and we have reiterated concerns raised in our submission on the draft Terms of Reference. We also want to restate our opposition to Terrapure's application to expand the capacity of this landfill site. At the bigger picture level, we do not believe that it is appropriate to expand an industrial landfill in this location, given the amount of residential development that has taken place surrounding the site over recent years.</p>	<p>Comment noted.</p>



7.11 Submission of the Environmental Assessment

In accordance with the MECP's Code of Practice for Preparing and Reviewing Environmental Assessments in Ontario (January 2014), the SCRF EA Report was submitted to the MECP for a decision by the Minister of the Environment, Conservation and Parks on the proposed undertaking. The formal review period for the SCRF EA Report started on January 11, 2019.

7.11.1 Availability for and Notification of the Review of the SCRF EA

The SCRF EA Report was available for review on the project-specific website (www.terrapurestoneycreek.com) and at the following locations from January 11 to March 1, 2019:

- Terrapure's Stoney Creek Regional Facility Administrative Office (65 Green Mountain Road)
- City of Hamilton Valley Park Library
- City of Hamilton's Clerk's Office
- Ministry of the Environment, Conservation and Parks West Central Region Office (Hamilton)
- Ministry of the Environment, Conservation and Parks Environmental Assessment and Permissions Branch (Toronto)

Notifications of the availability of the Draft SCRF EA Report for review was provided through the following means:

- Advanced courtesy notice by email/telephone calls to City of Hamilton Mayor Fred Eisenberger, Brad Clark (Ward 9), Maria Pearson (Ward 10)
- Advanced courtesy notice by email to Terrapure SCRF Community Liaison Committee
- Emailing of the SCRF EA Report Notification to all review agencies and Indigenous communities, on December 14, 2019 in advance to the release of the Draft EA Report.
- Mailing or emailing of the SCRF EA Report to all review agencies and Indigenous communities, on January 11, 2019
- Direct mailing and emailing to SCRF EA contact database including City of Hamilton Council, members of the public and property owners adjacent to the SCRF between January 10-11, 2019.
- Emailing or mailing to all interested public members in the SCRF EA contact database, and property owners adjacent to the SCRF on January 11, 2019
- Advertisement in the Stoney Creek news on January 10, 2019 and Hamilton Spectator on January 11, 2019
- Posting on the SCRF EA project website on January 11, 2019
- Distribution of flyers to approximately 8,000 addresses within the SCRF Study Area using Canada Post's unaddressed admail between January 10-11, 2019
- Mobile sign along Upper Centennial Parkway with details for the Draft EA Report from January 11-25, 2019.

The preceding notification materials are included in in **Vol. 3 Appendix O**.

7.12 Commitments for Ongoing Consultation

Subject to approval being received by the Minister of the Environment, Conservation and Parks, Terrapure is proposing to continue consultation during the construction and operation of the proposed capacity increase for residual material at the SCRF. In particular, the following activities are proposed:



Review Agencies

- Consult with review agencies through meetings and correspondence on an as-needed basis during design and construction to discuss issues related to their agencies' mandates, such as the permits and approvals identified in **Section 9** required prior to construction or operation.
- Terrapure will undertake the following as part of ongoing consultation with review agencies:
 - Provide the Hamilton Conservation Authority with the Stormwater Management Plan post-approval during the Design Stage.
- Complete a survey of the surrounding properties downgradient of the SCRF to identify private wells to be included, where appropriate, in the groundwater monitoring program.
 - Compensation agreements with the City of Hamilton and Heritage Green Community trust will remain in force. The terms will be reviewed should the proposed Undertaking be approved.
 - Re-calculate reasonable Use Criteria (RUC) values for the 2018 Annual Monitoring Report.
 - Following completion of the residential development to the north of the Site, complete additional traffic counts to validate modelling assumptions and proposed site specific limits.
 - Include an assessment of a variety of events from the 2-year to 100-year storm events for pre-landfill and Preferred Landfill Footprint in accordance with the Ministry document "Stormwater Management Planning and Design Manual, March 2003", if future stormwater-related amendments to Environmental Compliance Approval (ECA) No. A181008 and/or Industrial Sewage Certificate of Approval No. 5400-7DSSHU are undertaken.
 - Include the following in the application to amend ECA No. A181008:
- The equations and calculations for each method used.
- A direct comparison to the calculations done previously to estimate a Contaminating Lifespan of between 200-300 years which highlights the assumptions which are now being changed; particularly the ones that decrease the estimate by such a significant amount.
- Any assumptions being changed should be supported by a rationale, including data/evidence collected from the existing landfill site.
- Consideration to expanding the list of contaminants used to calculate the contaminating lifespan.
- Any assumptions made should err on the conservative side.

Indigenous Communities

- Continue to inform Indigenous communities of project updates and provide the opportunity for topic-specific meetings on an as-needed basis.
- Consider future requests by the Mississaugas of the New Credit First Nation for ongoing consultation following the EA including but not limited to site tours and monitoring or habitat restoration, at their request.
- Provide the Mississaugas of the New Credit First Nation with the Environmental Management Plan (EMP) for their information.

Public

- Continue to release an annual report highlights for the operations of the SCRF.
- Maintain the CLC and utilize the existing CLC website for public communications about SCRF.
- Where possible, use native vegetation as implementation for additional visual screening around the SCRF.