



May 2010



## SUMMARY OF THE SCOPING HEALTH IMPACT ASSESSMENT (HIA) CONSULTATION

# City of Toronto Proposed Mixed Waste Processing Facility

**Submitted to:**  
Environmental Protection Office  
Toronto Public Health  
277 Victoria Street, 7th Floor  
Toronto, ON M5B 1W2

REPORT

**Report Number:** 09-1188-6007

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### 1.0 INTRODUCTION

The City of Toronto Solid Waste Management Services (the “City”) retained Golder Associates Ltd, (“Golder”) to aid in the facilitation of a Public Consultation session (the “meeting”) in collaboration with Toronto Public Health (“TPH”) regarding the proposed Mixed Waste Processing Facility on lands adjacent to the Green Lane Landfill (the “proposed project”) in Township of Southwold, Ontario. Golder’s role at the meeting was to provide support to TPH (facilitation and recording of stakeholder discussions) and to provide expertise on technology details, life cycle assessment and Health Impact Assessment (HIA). Golder documented the group discussions to capture what was reported from stakeholder groups as potential impacts, both positive and negative.

This report summarizes the comments and concerns expressed by stakeholder representatives during the March 8<sup>th</sup>, 2010 consultation meeting.

### 2.0 BACKGROUND

On March 8, 2010, the City and TPH held a consultation meeting at the Administrative Building of Green Lane Landfill in Township of Southwold, Ontario. The objective of the consultation meeting was to gain understanding of the potential health concerns of stakeholders related to the proposed project on lands adjacent to the Green Lane Landfill and to identify the areas where mitigation efforts need to be further explored to address these concerns.

The meeting was attended by 17 representatives from the following 6 stakeholder groups:

- Chippewas of the Thames First Nations;
- Elgin-St. Thomas Public Health;
- Green Lane Landfill Public Liaison Committee;
- Middlesex-London Health Unit;
- Oneida Nation of the Thames; and
- Township of Southwold Council.

Angela Whitely of the Ontario Ministry of the Environment (MOE) also attended as an observer. Representatives from the Munsee-Delaware Nation were also invited to participate and although they were unable to attend efforts were made to follow up thru to the end of March. A list of meeting participants is provided in Appendix A.

The meeting agenda included presentations by Ronald Macfarlane of TPH who provided an overview of the HIA Framework and the objective of the Scoping HIA consultation; Michael Cant of Golder provided the results of the Planning Study and Theresa Repaso-Subang of Golder presented the results of the first phase of the HIA. A copy of the agenda is provided in Appendix B.

Ronald Macfarlane then provided a description of the Scoping HIA Tool before dividing the larger group into four breakout groups to complete the Scoping HIA exercise. This first half (Part A) of the meeting is discussed below in Section 3.



It is noted that the Scoping HIA Tool is consistent with Appendix C of the TPH HIA Framework (Jacques Whitford, 2008). The Scoping HIA Tool is divided into two sections. In the first section, Part A, respondents are asked to identify potential impacts on health. Consistent with the TPH HIA Framework (Jacques Whitford, 2008), the Scoping HIA Tool has 5 pre-defined determinants of health including:

- Social and Economic Factors;
- Lifestyle Factors;
- Access to Services;
- Equality; and
- Environmental Factors.

Each of the 5 determinants has several factors that may be positively, neutrally or negatively impacted by the proposed project. Respondents evaluate if the pre-defined determinants of health could be impacted by the proposed project. Respondents may determine that the determinant of health is not applicable for the current project or that they do not have enough information to evaluate the possible impacts.

In the second section of the Scoping HIA Tool, Part B, respondents are asked to rank the identified potential positive and negative impacts as “Very Important”, “Important” and “Less Important”.

In the second half of the consultation, each group elected one individual to report back on a summary of comments from the HIA scoping exercise. The ranking of potential negative and positive impacts was further discussed in plenary and discussions were captured on flipcharts. Participants were also asked to submit their individual HIA worksheets. Part B of the meeting is discussed below in Section 4.

### 3.0 PART A – IDENTIFICATION OF POTENTIAL IMPACTS ON HEALTH

One of the objectives of the meeting was to elicit feedback from the local community regarding the proposed project. It was thought that splitting the larger group into smaller, focused groups with similar interests and concerns would allow for the greatest individual input. It would also allow the City and TPH to identify concerns of specific demographics within the local community. The following four breakout groups were formed and given the task to complete the Scoping HIA:

- Representatives from First Nations, facilitated by Theresa Repaso-Subang of Golder;
- Representatives from Township of Southwold Council (“Council”), facilitated by Olanna White of TPH;
- Representatives from Elgin-St. Thomas Public Health and the Middlesex-London Health Unit (“Public Health”), facilitated by Ronald Macfarlane of TPH; and
- Representatives from the Green Lane Landfill Public Liaison Committee (“PLC”), facilitated by Loren Vanderlinden of TPH.

The results of Part A of the Scoping HIA from the separate breakout groups are provided in Appendix C. The results are a summary of what was recorded on individual breakout group members sheets as well as what was



captured by the facilitator. The role of the facilitator was to keep the group focused and to lead the group through the Scoping HIA tool. The facilitator was also responsible for recording key points that were discussed as the tool was being populated. For three of the four breakout groups, the facilitator was also asked to provide the report back to the whole group (ie. Part B). The following sections are brief overviews of what was captured during the breakout sessions.

### 3.1 Representatives from First Nations

Representatives from First Nations identified a specific concern: the possible impacts the proposed project may have on plants and wildlife that are consumed and used as part of their traditional diets and medicine. Many of their social and family gatherings are held outdoors and there is a concern that odour from the proposed project may keep them indoors, significantly impacting their quality of life. First Nations also continue to rely heavily on trapping, fishing and hunting as a source of food as well as a source of leisure. Odour, and possibly air quality were seen as possibly impeding these activities.

A disadvantage unique to First Nations in the area is that unlike other residents in the area, they cannot move their landbase. Therefore, any potential impacts from the proposed project would need to be mitigated to ensure that First Nations are not unfairly impacted. Representatives from First Nations also expressed concerns that since members from the Aboriginal population generally have a shorter life expectancy and are susceptible to developing certain chronic diseases, they may be more sensitive to possible impacts from the proposed project than other members of the local community.

The First Nations group also identified several possible positive impacts from the proposed project. Currently, there is no recycling program on their reserves. A possible partnership with the City may allow the community to start up a recycling program with Toronto. First Nations representatives feel that this is an excellent opportunity to educate and engage the community on recycling as well as waste reduction. Specific responses on the Scoping HIA Tool are found in Appendix C.

### 3.2 Representatives from Township of Southwold Council

Like the representatives from First Nations, the Township of Southwold Council representatives identified both positive and negative possible impacts on health from the proposed project. They identified possible positive impacts on local income/poverty and employment, but realize that there will only be a limited number of jobs created that may require special technically qualified individuals. They also saw opportunities to positively impact education such as a potential development of an education centre at the facility that would allow local schools to take trips and learn about recycling and other waste reduction techniques. Council representatives also felt that partnerships could be formed with area universities to work with the facility or oversee pilot projects related to the compost like output (“CLO”). Council representatives also saw a benefit of using the CLO on local fields if it is useful to crops.

Council representatives also identified many possible negative impacts from the proposed project, the majority being environmental. They identified potential negative impact for all 9 environmental factors listed in the Scoping HIA Tool. However, they do believe that with proper mitigation strategies, these impacts could be lessened. Council representatives want the waste processing as well as the curing of the compost to be



enclosed within the proposed facility. The group does not want the compost to be cured in windrows outdoors under a simple lean-to. Council representatives felt that the duration of curing and stockpiling of CLO on site could influence the potential effects. Given this, Council representatives did not believe that they have sufficient information to comment on CLO stockpiling at the site. They also believe that they have not been adequately informed regarding the quality of the CLO and its possible use. As such, the Council representatives believe that proper containment of leachate that may be generated from the CLO is necessary and that batch testing of the CLO is required prior to it leaving the facility.

Other identified potential negative impacts included reduction of physical activity, leisure, decrease in property value and increased demand on health services. Council representatives believe impacts to these factors are all related to potential odour and air quality issues associated with the proposed project. They would like the area of impact to be increased from the current 2 km radius to ensure that property values in the area are protected. Council representatives noted that an Emergency Plan would need to be developed for the proposed project in the event of a natural disaster or catastrophic failure.

Increased truck traffic on local roads was also identified as a potential negative impact on local transportation. Council representatives pointed out that not only would there be trucks transporting waste in, there would need to be trucks to transport the CLO out. The proposed project is located in a rural area of Ontario where the local roads are used to move farm equipment to surrounding fields. Farmers would need to take extra precautions when moving their equipment due to the increase in transport truck traffic. A more detailed summary of responses to specific sections of the Scoping HIA Tool can be found in Appendix C.

### 3.3 Representatives from Elgin-St. Thomas Public Health and the Middlesex-London Health Unit

Public Health representatives identified similar positive and negative potential impacts as First Nations and Council representatives. However, Public Health representatives did identify impacts that were initially not mentioned by other groups. A community and social cohesion impact that they identified was the stigma of being known as “Garbage Alley” and the potential effects it may have on tourism in the area. Public Health representatives also noted that odour and litter generated from the proposed project may have a negative impact on leisure, an impact that was also identified by First Nations.

A key impact, which was alluded to by other groups, is the possible increase in vermin. A concern of Public Health is that with an increase in vermin, there could be an increase in vector-borne illness and disease. They were also concerned with the quality of the CLO. They noted that if the CLO was of unacceptable quality, there could be possible impacts on local food supplies if the CLO was used on local fields. Public Health also identified several sub-populations that may be negatively impacted by the proposed project. These individuals included: children; seniors; chronically ill; economically disadvantaged; and racial and ethnic minority groups.

Like the First Nations representatives, Public Health felt that generally there was not enough information regarding the proposed project to adequately evaluate potential impacts to health. Specifically, they felt that environmental factors could not be evaluated with the current information provided because they could not determine what the local or regional impacts would be. They feel that a cumulative assessment is required to assess potential impacts from the proposed project. That is, they feel it is necessary to assess the proposed



project in the context of the existing background conditions (or facilities) and the impacts on the local community as well as the regional community. A more detailed summary of responses to specific sections of the Scoping HIA Tool can be found in Appendix C.

### 3.4 Representatives from the Green Lane Landfill Public Liaison Committee

Like First Nations, the PLC was able to identify concerns that were unique to the local community. Specifically, the PLC identified impacts that affected the area's local farming community. The proposed project is located in a primarily rural area where farming families are located. The PLC feels that farmers may be impacted more so than other residents simply due to their proximity to the proposed project. The PLC mentioned that the proposed project may negatively impact family cohesion since, although younger generations may not want to leave farming they might feel forced to due to nuisances like odour. If farmers do choose to leave their farms they may move to nearby urban centres, a completely different environment than that which they are accustomed.

They also identified that the proposed project may attract more rodents to the area, which in turn could attract more coyotes. In the past, coyotes were controlled by local hunters, but the PLC mentioned that hunters are not allowed on the Green Lane property, which could then become a safe haven for the coyotes. The increase in coyotes could become dangerous for local livestock if rodent populations were to suddenly decline.

As was mentioned by Council representatives, the increase in truck traffic on local roads could negatively impact farmers. Farmers often have to move large slow moving vehicles that can take up much of the road. Extra caution would need to be taken by both the farmers and the truck drivers when these large vehicles encounter each other. However, a positive impact on transportation could be obtained for the local community if the proposed 401 interchange is built. This would help to alleviate the increased truck traffic on local roads.

Other potential negative impacts were identified by the PLC that are not unique to the local farming community. The PLC identified that the proposed project could have a negative impact on crime. Material that might get separated out of the waste stream, such as aluminum or copper, may attract thieves to the facility. The proposed project also creates another facility that local law enforcement would need to protect. Also, potential protests or vandalism related to the proposed project may increase.

The PLC feels that with appropriate mitigation measures potential negative impacts to environmental factors could be decreased. They referred to a similar facility in Edmonton as a positive example for the proposed project. Members from the PLC had the opportunity to tour the facility and were impressed with the operation.

The PLC did identify several possible positive impacts associated with the proposed project. One positive impact may be an increase to the Green Lane Landfill Community trust fund. Also, the proposed project may provide a good tax base for Township of Southwold, especially when the Ford plant closes. The PLC also mentioned the use of CLO on local fields. They said that farmers would be willing to try the product on their fields if they were fairly compensated. They also suggested field trials of the CLO in the buffer zone of the landfill. A more detailed summary of responses to specific sections of the Scoping HIA Tool can be found in Appendix C.



## **4.0 PART B - RANKING OF POTENTIAL IMPACTS ON HEALTH**

The purpose of the afternoon discussion was to allow the breakout session groups to reconvene into the large group and share the results of the Scoping HIA. As can be seen from the individual ranking tables and HIA handouts, similar positive and negative possible impacts were identified and ranked. All groups seemed to agree that the possible positive impacts of the proposed project would be seen in educating the young, an increase the community trust fund and the possibility of a joint recycling initiative with the City. All groups also seemed to agree that possible negative impacts would most likely be related to environmental factors, but with appropriate mitigation measures, the impacts could be reduced. Table 1 summarizes how the participants as a whole ranked potential impacts.

During the group discussions, stakeholders also agreed that areas existed where further information was required to completely understand and predict potential health impacts related to environmental factors. The group felt that environmental factors were largely dependent on the actions taken to address air quality and air and water monitoring. Stakeholder groups also requested information related to the potential execution of a joint recycling program between the local communities and the City. They were also interested in the possibility of expanding the current buffer zone (which is part of the current CofA). The Public Health stakeholder representatives, with support from other participants, asked if a cumulative impact assessment study was planned.



## SUMMARY OF THE SCOPING HIA CONSULTATION MEETING

**Table 1: Ranking of Potential Impacts from the Proposed Mixed Waste Processing Facility**

Negative Impacts			Positive Impacts		
Very/Most Important	Important	Less/Least Important	Very/Most Important	Important	Less/Least Important
<ul style="list-style-type: none"> <li>■ Odour               <ul style="list-style-type: none"> <li>■ hard to measure</li> </ul> </li> <li>■ Air Quality               <ul style="list-style-type: none"> <li>■ can be controlled and measured</li> <li>■ PM 2.5</li> </ul> </li> <li>■ Transportation</li> <li>■ Water</li> <li>■ Soil Quality</li> <li>■ Health Services</li> <li>■ Vector borne illness</li> <li>■ Vermin issues</li> <li>■ Scavenger issues</li> <li>■ Catastrophic failures</li> <li>■ Community and social cohesion</li> <li>■ Family cohesion</li> <li>■ Noise</li> <li>■ Property Values</li> </ul>	<ul style="list-style-type: none"> <li>■ Physical activity</li> <li>■ Local food supply</li> <li>■ Litter/nuisance</li> <li>■ Noise and dust</li> <li>■ Transportation concerns               <ul style="list-style-type: none"> <li>■ road maintenance</li> <li>■ traffic</li> <li>■ increased speed on 401 due to odour</li> </ul> </li> <li>■ Increase in coyote and vermin</li> <li>■ Hunting and Fishing</li> <li>■ Traditional medicine</li> </ul>	<ul style="list-style-type: none"> <li>■ Aesthetics and tourism</li> <li>■ Relationship/resentment of Toronto</li> <li>■ Crime</li> </ul>	<ul style="list-style-type: none"> <li>■ Local jobs</li> <li>■ Education               <ul style="list-style-type: none"> <li>■ possible collaboration with universities</li> </ul> </li> <li>■ Compost, if it can be used on local land</li> <li>■ Revenue</li> <li>■ Social cohesion</li> <li>■ Increased benefit to trust fund</li> </ul>	<ul style="list-style-type: none"> <li>■ Greenhouse gas reduction</li> <li>■ Waste diversion</li> <li>■ Recycling with Toronto</li> <li>■ Research and development</li> <li>■ Experimental farm to test possible benefits/impacts of CLO</li> </ul>	<ul style="list-style-type: none"> <li>■ Crime</li> </ul>



### 5.0 CONCLUSIONS

Overall, the representatives of the local stakeholder groups were pleased with the day's events. They appreciate that the City and TPH are engaging with the local community to identify potential concerns from impacts that may result from the proposed project. All groups agreed that by having such a diverse group of representatives from the community allowed for a variety of concerns to be identified, which may have been overlooked. The stakeholders hope that the City and TPH will continue to engage the local community for input as the proposed project progresses.



## Report Signature Page

**GOLDER ASSOCIATES LTD.**

Stephen Cioccio, B.Sc. (Hons)  
Environmental Risk Assessor

Theresa Repaso-Subang, B.Sc. (Hons), DABT, QPRA  
Associate & Team Leader - Toxicology & Risk Assessment

Michael Cant, BA  
Associate, Canadian Waste Sector Leader

SC/TRS/sa

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# **APPENDIX A**

## **Scoping HIA Consultation, March 8, 2010, List of Participants**



## APPENDIX A

### Scoping HIA Consultation, March 8, 2010, List of Participants

Name	Title	Organization
Shane Fisher	Environmental Committee	Chippewas of the Thames First Nation
Eldon French	Public Works Manager	Chippewas of the Thames First Nation
Dr. Frank Warsh	Medical Officer of Health	Elgin-St. Thomas Public Health
Bev Walpole		Elgin-St. Thomas Public Health
Terry Carroll		Green Lane Landfill Public Liaison Committee
Elsie Hutchings		Green Lane Landfill Public Liaison Committee
Bob Lampman		Green Lane Landfill Public Liaison Committee
Bill Aarts		Green Lane Landfill Public Liaison Committee
Iqbal Kalsi	Manager, Environmental Health, Health Hazards, Preventative & Emergency Response	Middlesex-London Health Unit
Clinton Cornelius		Oneida Nation of the Thames
Heather Nicholas	Administrator/Director of Care	Oneida Nation of the Thames
April Varewyck	Environmental Coordinator	Oneida Nation of the Thames
Donna Ethier	CAO/Clerk	Township of Southwold
James McIntyre	Mayor	Township of Southwold
Valerie Cron	Councillor	Township of Southwold
John Andrews	Councillor	Township of Southwold
Stan Lidster	Deputy Mayor	Township of Southwold
Angela Whiteley	Area Supervisor	Ministry of the Environment

### City Staff

Anne Hiscock	Environmental Manager	Green Lane Landfill
Loren Vanderlinden	Supervisor, Environmental Health Assessment & Policy	Public Health
Olanna White	Research Consultant	Public Health
Ronald Macfarlane	Supervisor, Environmental Health Assessment & Policy	Public Health
Nancy Martins	Public Consultation Unit	Communications & Consultation
Bob Kearse	Senior Engineer	Solid Waste Management Services



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**APPENDIX A**  
**Scoping HIA Consultation, March 8, 2010, List of Participants**

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**Consultants**

<b>Michael Cant</b>	Golder Associates Ltd
<b>Theresa Repaso-Subang</b>	Golder Associates Ltd
<b>Stephen Cioccio</b>	Golder Associates Ltd.
<b>Dulce Reyes</b>	Golder Associates Ltd.

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# **APPENDIX B**

## **Agenda and Background Information Provided to Participants**



## **Residential Mixed Waste Processing Facility**

### **Health Impact Assessment Workshop**

**Monday, March 8, 2010**

**10:00 a.m. to 3:00 p.m.**

**Green Lane Landfill Site, Administration Office**

**Directly across from the landfill site**

**38590 Third Line, R.R. 7, St. Thomas, ON**

### **AGENDA & BACKGROUND INFORMATION**

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#### **Objective:**

The main objective of the workshop is for the City of Toronto to obtain a better understanding of any potential health concerns of the community. The participants will be partaking in a Health Impact Assessment (HIA) activity to achieve this objective.

- 10:00 a.m. Coffee, Welcome
- 10:15 a.m. Project Overview and Orientation
- Background presentation
  - Objectives for the day
- 11:00 a.m. HIA Exercise Part I
- Example exercise with entire group
  - Break out into small groups
- 12:00 noon Lunch (will be provided)
- 12:30 p.m. Continue small group work
- 2:00 p.m. HIA Exercise Part II
- Large group comes together
- 2:45 p.m. Summary of Input and Next Steps



## **Additional Background Information**

We will provide a background presentation at the HIA Workshop however if you would like review some additional information before the session we would like to highlight the following documents:

- The HIA method is described in detail in the Health Impact Assessment Toronto Board of Health Report available at:  
[http://www.toronto.ca/health/hphe/pdf/boh\\_health\\_impact\\_assessment.pdf](http://www.toronto.ca/health/hphe/pdf/boh_health_impact_assessment.pdf)
- An example of a similar HIA can be found at:  
[http://ccnpps.ca/en/listeresumes.aspx?sortcode=2.1.3&id\\_article=197&starting=&ending](http://ccnpps.ca/en/listeresumes.aspx?sortcode=2.1.3&id_article=197&starting=&ending)
- Slides provided at the September open house are available at:  
[http://www.toronto.ca/garbage/mwp/pdf/2009-09-29\\_meeting\\_presentation.pdf](http://www.toronto.ca/garbage/mwp/pdf/2009-09-29_meeting_presentation.pdf)
- Work Package 3 (available at: [http://www.toronto.ca/garbage/mwp/pdf/work\\_package-3.pdf](http://www.toronto.ca/garbage/mwp/pdf/work_package-3.pdf)) provides an overview of the HIA process thus far. To familiarize yourself with the findings we suggest that you review pages:
  - p. 12 – 2.8 Summary
  - p. 14 - Table 2: Potential Health Impacts and their Potential Source
  - p. 16 – Table 4: HIA Screening Summary Top Environmental Factors – Potential Concern of Each option and Engineering Controls to Mitigate Impacts
- During the HIA Workshop the group will be evaluating the potential health impacts associated with Mechanical Biological Treatment with Anaerobic Digestion. These technologies are described in the following two articles.
  - Mechanical Biological Treatment (MBT) -- Part 1, A European perspective, relevant to Canada By: Michael Cant & Andy Wilson  
<http://www.solidwastemaq.com/issues/story.aspx?aid=1000213617>
  - Anaerobic Digestion Outlook for MSW Streams by Maria Kelleher in BioCycle  
<http://www.conversiontechnologystudy.com/media/documents/Anaero%20Digst%204MSW,%20Biocycle%208-07.pdf>

If, for any reason, you need to contact us on March 8, the day of the workshop, please call the Green Lane Landfill Administration Office at 519-652-0909. Otherwise please contact Nancy Martins at [nmartin@toronto.ca](mailto:nmartin@toronto.ca) or by phone at 416-392-4390.



# **APPENDIX C**

## **Summaries of Breakout Group Session Scoping HIA**



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses

## Health Impact Assessment

City of Toronto Residential Mixed Waste Processing Facility

First Nations Representatives Breakout Session Responses

### Attended By:

Shane Fisher – Environmental Committee, Chippewa of the Thames First Nation  
Eldon French – Public Works Manager, Chippewa of the Thames First Nation  
Clinton Cornelius – Oneida Nation of the Thames  
Heather Nicholas – Administrator/ Director of Care, Oneida Nation of the Thames  
April Varewyck – Environmental Coordinator, Oneida Nation of the Thames  
(3 of 5 worksheets received)

### Facilitated By:

Theresa Repaso-Subang, Golder Associates

## Part A

### What are the potential impacts on health?

**Which of the following determinants of health might be affected by the proposal? If so, will that impact be positive, neutral or negative?** Check the answer indicating the type of possible impact on the following determinants of health. If you do not have enough information or this determinant of health is not applicable to the proposal, check Not Enough Information or N/A, respectively.



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses**

**Potential Impact on Social and Economic Factors**

Social and Economic Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Income / Poverty	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Taxes, employment (non-natives)
Employment	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Clarification needed on number of jobs; encourage employing local community
Education	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Effects of odours on students, school trips to facility
Family cohesion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	Odour may have an affect on outdoor family gatherings
Community & social cohesion	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible recycling program
Crime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Theft of metals
Housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	Lower property values
Social exclusion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	✓	Odour
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these social and economic factors, try to describe in what way you think an impact might happen.**

Positive Impact

- Education: programs key to community; educate public and students about benefits of recycling; suggestion of garden in front of proposed project that highlight recycling
- Recycling initiative as an opportunity for community participation
- Recycling partnership with City of Toronto
- Employment: Will they employ local community? Or would City relocate staff from Toronto?

Waste products – green bins



**Potential Impact on Lifestyle Factors**

Lifestyle Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Diet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	May eat animals that could be in contact with the facility
Physical activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Odour – decrease in outdoor activities
Smoking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Alcohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Drug use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sexual behaviour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Decrease in social outing/physical activity as a result of odour



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses**

**Potential Impact on access to services**

Access to Services	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Health services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increase demand on health services as a result of increased asthma incidences; may also increase over time
Education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increase educational opportunities if educational centre is included
Social services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increased traffic (and speeds) leaving the facility could increase use of roads; increased tonnage over time and increase in no. of trucks
Leisure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hunting, fishing, trapping
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Education

- programs key to community; educate public and students about benefits of recycling; suggestion of garden in front of proposed project that highlight recycling
- Recycling initiative as an opportunity for community participation

Testing of air quality in area - Certificate of Approval from MOE on Landfill

Testing of water and soil quality

Wildlife (raccoon) and fish concern



***Potential Impact on Equality***

Equality Factors	Potential Impacts					Comments
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	First nations have lower life expectancy, prone to chronic disease
Sex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Minorities or disadvantaged group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	First Nations are unable to move land base
Ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

All factors are disadvantages to First Nations.



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses**

**Potential Impact on Environmental Factors**

Environmental Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Air quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Biogas to fuel local greenhouses. Need air quality monitoring. Don't see positive change with the proposed facility as what can't be recycled is landfilled.
Odour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Surface water quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring? Who? How? No baseline data. Collection and treatment of surface water from the curing process.
Groundwater quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Soil quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CLO use on agricultural lands and food chain uptake as a result of increased exposure, leaching
Land use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Need baseline data, farm land use change, buffer area?
Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring of vegetation in the immediate vicinity; increased trucks and associated vehicular emissions effects on vegetation
Noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increased truck traffic
Built Environment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	impact ability to redevelop lands for anything other than industrial use
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coyotes in area are eating mice and rats on landfill. Mice and rats on landfill property. Hawks eat mice. Dust Blowing onto organic farm land.

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Recycling Program Initiative – support from City of Toronto to recycle plastics/glass; encourage community to recycle for market in Toronto; increased community participation



**Potential Impact on other Determinants of Health**

<b>Other Determinants of Health – specify:</b>	<b>Potential Impacts</b>					<b>Comments</b>
	<b>Not enough Information</b>	<b>Positive</b>	<b>Neutral</b>	<b>Negative</b>	<b>N/A</b>	
Chronic Sickness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Services required for better health
Economically disadvantaged persons	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chronic illness
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**

Cumulative assessment Vector born illness
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**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses**

**Potential Impacts on Sub-populations**

<b>Sub-population</b>	<b>Potential Impacts</b>					<b>Comments</b>
	<b>Not enough Information</b>	<b>Positive</b>	<b>Neutral</b>	<b>Negative</b>	<b>N/A</b>	
Children (0-18 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Health effects
Seniors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Women	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Men	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
People with dependents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Single or divorced people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Married people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Minority sexual orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Chronically ill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	High chronic diseases
Economically disadvantaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Unemployed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Homeless	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Under-housed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Employed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
People with disabilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Racial or ethnic minority groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	First Nations are at a disadvantage
New arrivals to Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
People with particular political or religious beliefs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Vermin and scavengers



**APPENDIX C**  
**Summaries of Breakout Group Session Scoping HIA – First Nations Representatives Responses**

Note: Not all sub-populations are listed here, or a listed sub-population may need to be further subdivided. List added groups here:

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**



## Part B

### Summarising your findings

#### Ranking Positive Impacts Prioritized

If you have identified any **positive** impacts for any of the determinants of health please prioritize these impacts. Please group these positive impacts into the following 3 categories:

#### **Very Important**

Local employment

#### **Important**

Partnership with Toronto recycling program

#### **Less Important**



**Negative Impacts Prioritized**

If you have identified any **negative** impacts for any of the determinants of health please prioritize these impacts. Please group these negative impacts into the following 3 categories:

**Very Important**

**Air Quality**  
**Odour**  
**Vector borne illness**  
**Litter and dust**  
**Catastrophic failure of plant**

**Important**

**Diet and exercise**  
**End use of CLO – lands used for food production?**  
**Impacts on hunting, fishing and medicines**  
**Monitoring of environmental factors**  
**Water Quality/Vegetation/Soil Quality/Land Use**

**Less Important**



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses

## Health Impact Assessment

City of Toronto Residential Mixed Waste Processing Facility

Township of Southwold Council Breakout Session Responses

### Attended By:

James McIntyre - Mayor  
Valerie Cron - Councillor  
John Andrews - Councillor  
Stan Lidster – Deputy Mayor  
Donna Ethier – CAO/Clerk  
(5 of 5 worksheets received)

### Facilitated By:

Olanna White – Environmental Protection Office, Toronto Public Health (TPH)

## Part A

### What are the potential impacts on health?

**Which of the following determinants of health might be affected by the proposal? If so, will that impact be positive, neutral or negative?** Check the answer indicating the type of possible impact on the following determinants of health. If you do not have enough information or this determinant of health is not applicable to the proposal, check Not Enough Information or N/A, respectively.



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses**

**Potential Impact on Social and Economic Factors**

Social and Economic Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Income / Poverty	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimal increased in jobs, want to ensure local employees
Employment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Minimal jobs created and may required specially trained technicians to operate the facility
Education	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Education facilities would be very positive, links could be established with the local universities and colleges
Family cohesion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Community & social cohesion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This is dependent of the approach taken and how it is managed (perception), open houses as a possibility
Crime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Social exclusion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Decrease in property value. Want an increase beyond 2km
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these social and economic factors, try to describe in what way you think an impact might happen.**

Potential for positive relationship with the Southwold recycling program.  
All factors are dependent on how the facility is managed and the cost.



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses

#### **Potential Impact on Lifestyle Factors**

Lifestyle Factors	Potential Impacts					Comments
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Diet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Physical activity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	Only negative if odour is increased
Smoking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Alcohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Drug use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Sexual behaviour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Windrows should be located indoors.  
Lifestyle factors may be affected by air quality.



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses**

***Potential Impact on access to services***

Access to Services	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Health services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increase demand on health services due to potential poor air quality.
Education	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Increase educational opportunities if educational centre is included
Social services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increased traffic leaving the facility could increase use of roads, farmers would need to be more careful when moving equipment due to increased traffic
Leisure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Poor air quality could decrease leisure
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

All factors are dependent on air quality and odour mitigation measures.



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses

#### **Potential Impact on Equality**

Equality Factors	Potential Impacts					Comments
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Seniors and young children could have a harder time with the odour or air quality
Sex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Minorities or disadvantaged group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Increased impact of children and elderly as a result of air quality.

Increased truck traffic may cause an increased risk to children playing in the area.



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses

#### Potential Impact on Environmental Factors

Environmental Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Air quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dependent on mitigation strategies
Odour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Depends on length of time for stock piling of CLO
Surface water quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Groundwater quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Soil quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Land use	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Best location geologically for this type of plant
Vegetation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Dependent on how CLO is used
Noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Truck leaving plant could increase noise
Built Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	This is dependent on landscaping
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Surface water quality, groundwater quality and soil quality are all interdependent. The facility should be enclosed; mitigation strategies should be used to create a controlled environment. Duration of stockpiling could influence potential effects. The participants felt they did not have enough information to comment on the potential impact of stockpiling. They had not been informed well regarding the soil quality and its possible use. Proper containment of leachate was deemed necessary. There is a need for the Ontario Ministry of the Environment (MOE) to monitor and test the end product. This could be part of the CofA.



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses**

Need for windrows to be contained indoors

**Potential Impact on other Determinants of Health**

<b>Other Determinants of Health – specify:</b>	<b>Potential Impacts</b>					<b>Comments</b>
	<b>Not enough Information</b>	<b>Positive</b>	<b>Neutral</b>	<b>Negative</b>	<b>N/A</b>	
Catastrophic Disaster	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Emergency planning needed. Minimal emergency services in Southwold. Need for training and equipment
Radiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Batch testing needed
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**



**APPENDIX C**

**Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses**

**Potential Impacts on Sub-populations**

<b>Sub-population</b>	<b>Potential Impacts</b>					<b>Comments</b>
	<b>Not enough Information</b>	<b>Positive</b>	<b>Neutral</b>	<b>Negative</b>	<b>N/A</b>	
Children (0-18 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Trucks and children's safety a concern Increased air quality impacts
Seniors	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Increased air quality impacts
Women	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Men	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
People with dependents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Single or divorced people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Married people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Minority sexual orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Chronically ill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		Increased sensitivity to odour and dust
Economically disadvantaged	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Unemployed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Homeless	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Under-housed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Employed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
People with disabilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Racial or ethnic minority groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
New arrivals to Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
People with particular political or religious beliefs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



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**Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses**

<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<p>Note: Not all sub-populations are listed here, or a listed sub-population may need to be further subdivided. List added groups here:</p>						
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**



## Part B

### Summarising your findings

#### Ranking Positive Impacts Prioritized

If you have identified any **positive** impacts for any of the determinants of health please prioritize these impacts. Please group these positive impacts into the following 3 categories:

#### **Very Important**

**Employment**

**Education** – providing opportunities to school and general population

**Income**

**Social & community cohesion** – can be achieved through education, community input and participation

**Vegetation** – compost could be beneficial to local farmers

Recycling program for Southwold via City of Toronto

#### **Important**

**Education**

**Income**

**Built Environment**

**Employment**

#### **Less Important**

**Community and social cohesion**

**Southwold’s garbage going through the facility** – would promote “buy-in” from the community

**Income**



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Southwold Council Representatives Responses

**Built Environment** – landscaping

**Employment** - Very important, however probably small number of jobs created so considered less important.

#### **Negative Impacts Prioritized**

If you have identified any **negative** impacts for any of the determinants of health please prioritize these impacts. Please group these negative impacts into the following 3 categories:

#### **Very Important**

**Odour**

**Dust**

**Noise**

**Water**

**Environment**

**Air**

**Surface / groundwater**

**Health**

**Transportation**

**Possible Contamination** – keep stockpile on concrete to prevent off site contamination

**Batch Testing of compost to ensure quality**

#### **Important**

**Traffic**

**Site's appearance**

**Radiation**

#### **Less Important**

**Groundwater**

**Aesthetics**

**Tourism**

**Leisure**



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Public Health Representatives Responses

## Health Impact Assessment

City of Toronto Residential Mixed Waste Processing Facility

Public Health Representatives Breakout Session Responses

### Attended By:

Dr. Frank Warsh – Medical Officer of Health, Elgin-St. Thomas Public Health

Iqbal Kalsi – Director, Environmental Health, Health Hazards, Preventative & Emergency Response, Middlesex-London Health Unit

(2 of 2 worksheets received)

### Facilitated By:

Ronald Macfarlane – Environmental Health Assessment & Policy, Toronto Public Health

## Part A

### What are the potential impacts on health?

**Which of the following determinants of health might be affected by the proposal? If so, will that impact be positive, neutral or negative?** *Check the answer indicating the type of possible impact on the following determinants of health. If you do not have enough information or this determinant of health is not applicable to the proposal, check Not Enough Information or N/A, respectively.*



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**Potential Impact on Social and Economic Factors**

Social and Economic Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Income / Poverty	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Employment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Short Term, local?
Education	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Family cohesion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Odour – affecting outdoor family gathering, quality of life
Community & social cohesion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stigma of community, “Garbage Alley”
Crime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Decrease in property value due to odour
Social exclusion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these social and economic factors, try to describe in what way you think an impact might happen.**



**Potential Impact on Lifestyle Factors**

Lifestyle Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Diet	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible impact on food supply from CLO
Physical activity	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible impact due to air quality
Smoking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Alcohol	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Drug use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Sexual behaviour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	Impact to human body due to exposure to chemicals
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**



***Potential Impact on access to services***

Access to Services	Potential Impacts					Comments
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Health services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Education	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Social services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Transportation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Increase in truck, increase in road maintenance
Leisure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Odour/ litter, enjoyment/quality of life
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**



***Potential Impact on Equality***

Equality Factors	Potential Impacts					Comments
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Sex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Minorities or disadvantaged group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
<i>Other (Specify)</i>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Township around the facility be serviced (garbage disposal?)

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**



**Potential Impact on Environmental Factors**

Environmental Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Air quality	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Local/regional impact
Odour	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Local/regional impact
Surface water quality	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring, impact of catastrophic failure
Groundwater quality	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring, impact of catastrophic failure
Soil quality	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	monitoring
Land use	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	Expansion of buffer zone?
Vegetation	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	impact of catastrophic failure
Noise	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Built Environment	<input type="checkbox"/>	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Litter, dust, digestive sludge, PM 2.5, other nuisance issues – Not enough information  
 Increase in vector borne issues need to be assessed with the potential increase in vermin and scavengers



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**Potential Impact on other Determinants of Health**

<i>Other Determinants of Health – specify:</i>	<b>Potential Impacts</b>					<i>Comments</i>
	<i>Not enough Information</i>	<i>Positive</i>	<i>Neutral</i>	<i>Negative</i>	<i>N/A</i>	
Catastrophic Disaster	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Radiation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**

Cumulative Assessment – Local = Facility + conventional  
 - Regional = surrounding adjacent communities

Vector borne illness, scavengers, vermin



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***Potential Impacts on Sub-populations***

<b><i>Sub-population</i></b>	<b>Potential Impacts</b>					<b><i>Comments</i></b>
	<b><i>Not enough Information</i></b>	<b><i>Positive</i></b>	<b><i>Neutral</i></b>	<b><i>Negative</i></b>	<b><i>N/A</i></b>	
Children (0-18 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Direct health impact
Seniors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Direct health impact
Women	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Men	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
People with dependents	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Single or divorced people	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Married people	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Minority sexual orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Chronically ill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Health impact
Economically disadvantaged	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Unemployed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Homeless	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Under-housed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Employed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
People with disabilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Racial or ethnic minority groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
New arrivals to Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
People with particular political or religious beliefs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



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Note: Not all sub-populations are listed here, or a listed sub-population may need to be further subdivided. List added groups here:

<i>Aboriginal</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**



## Part B

### Summarising your findings

#### Ranking Positive Impacts Prioritized

If you have identified any **positive** impacts for any of the determinants of health please prioritize these impacts. Please group these positive impacts into the following 3 categories:

#### **Very Important**

Employment  
Compost output

#### **Important**

Decrease in greenhouse gas production  
Waste diversion  
Recycling initiatives  
Research and development

#### **Less Important**

Jobs – approx 20 new jobs  
Education  
Revenue – social and community cohesion



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#### **Negative Impacts Prioritized**

If you have identified any **negative** impacts for any of the determinants of health please prioritize these impacts. Please group these negative impacts into the following 3 categories:

#### **Very Important**

**Odour, air quality, dust**  
**Vector borne illness, scavengers, vermin**  
**Impact of catastrophic failure**  
**Stigma of “Garbage Alley”**

#### **Important**

**Diet**  
**Physical activity**  
**CLO – quality could impact food supply**  
**Litter/nuisance**

#### **Less Important**

**Transportation – dust, aesthetic issues**  
**Leisure**



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### Summaries of Breakout Group Session Scoping HIA – Green Lane PLC Representatives Responses

## Health Impact Assessment

### City of Toronto Residential Mixed Waste Processing Facility

#### Green Lane Landfill Public Liaison Committee Breakout Session Responses

**Attended By:**

Terry Carroll  
Elsie Hutchings  
Bob Lapman  
Bill Aarts  
(4 of 4 worksheets received)

**Facilitated By:**

Loren Vanderlinden – Environmental Protection Office, Toronto Public Health

**Part A****What are the potential impacts on health?**

**Which of the following determinants of health might be affected by the proposal? If so, will that impact be positive, neutral or negative? Check the answer indicating the type of possible impact on the following determinants of health. If you do not have enough information or this determinant of health is not applicable to the proposal, check Not Enough Information or N/A, respectively.**



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**Potential Impact on Social and Economic Factors**

Social and Economic Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Income / Poverty	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tax dollars, if it makes it way to the community, (.e.g like the Green Lane Landfill community trust fund)
Employment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Local employment, reality is there is a limited number of jobs
Education	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Teaching, school trips, educate at a young age about the environment, recycling at source, containers needed
Family cohesion (unsure?)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Increased tension in farming families who may want to sell after facility is built, push farmers away; impact if more farmland taken up.
Community & social cohesion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Green Lane does a good job of interacting with the community; Negative also, since people are split in the community re: concerns, like odour
Crime	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Potential for crime; Stealing material (e.g. aluminum), another facility to protect – affects policing, potential for protests, destruction
Housing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Who would build near the landfill? People might move/be pushed further away.
Social exclusion	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Difficult to predict –could draw battlegrounds
Other (Specify)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Green Lane Community Trust Fund increase?

**If you have identified possible positive or negative impacts on health acting through these social and economic factors, try to describe in what way you think an impact might happen.**

These factors were considered in relation to the local community (i.e. not from the perspective of someone from St. Thomas)  
 Additional questions/comments  
 Is the GLL community trust fund part of this? I.e. will it get a benefit from this facility?  
 Community needs to respond to education needs re: recycling



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#### Potential Impact on Lifestyle Factors

Lifestyle Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Diet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Physical activity	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Walking trails around facility (there is an existing nature trail) is positive, but odour may make people stay away
Smoking	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Alcohol	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Drug use	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sexual behaviour	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Reproduction – potentially negative due to chemical exposure, possible impacts on workers from chemicals in garbage?
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.

Important to assess whether chemicals in the garbage are a potential risk for workers.



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***Potential Impact on access to services***

Access to Services	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Health services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increased demand/stress on health services, e.g. Public Health inspectors have to inspect another facility, workload issue
Education	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	New learning experience, opportunity
Social services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Could be linked to positive tax increase or to employment
Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increased truck traffic (due to trucks needed to take away compost), increased road maintenance from wear and tear
Leisure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Poor air quality could decrease leisure
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Transportation could be positive if the proposed 401 interchange is built  
 Need to improve the intersection at HWY 4 due to increase in truck traffic  
 Need to take traffic off county roads  
 Worry about speed of trucks on the local roads



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***Potential Impact on Equality***

Equality Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Age	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Older farmers may not want to move, younger generation more prone to move, feel forced to move; younger generation not able to fulfill desire to pursue continuing family farms
Sex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Minorities or disadvantaged group	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Native populations may not be able to move as easily as other people in the area
Ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Differently abled may have access to jobs?
<i>Other (Specify)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Farmers and residents near the facility are affected more. More traffic will make it difficult for farmers to move equipment around

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

More traffic will make it difficult for farmers to move equipment around

**General Comments**

It appears that the PLC feels that farmers would be impacted more so than residents living in town or further away from the facility. Farmers have a unique set of issues that would need to be evaluated. Farmers may benefit from the compost that is generated from the facility if it is of good quality.



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#### Potential Impact on Environmental Factors

Environmental Factors	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Air quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Seen as similar to odour. Gas should be collected and used, not flared
Odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Need to cover the compost, protect it from rain and elements
Surface water quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Improvements in surface water quality as less waste sent to landfill; potential to reduce leachate in landfill
Groundwater quality	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Improvements in groundwater quality as less waste sent to landfill; potential to reduce leachate in landfill
Soil quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Farm trials of compost applied in the areas, farmers will try the compost if they are compensated; work with agricultural schools
Land use	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Negative if it means reducing agricultural land
Vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hard to separate from “Land use” factor
Noise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Increase of equipment being used; noise from trucks, backhoes, other machinery
Built Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	taking agriculture land away; could be positive for the Southwold tax base (e.g. if/when Ford plant closes)
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Increase in vermin and wildlife

**If you have identified possible positive or negative impacts on health acting through these lifestyle factors, try to describe in what way you think an impact might happen.**

Neutral with more of a positive outcome if mitigation technologies work; In some cases, also noted the potential for negative impacts depending on details (e.g. air quality, odour, groundwater quality, land use, vegetation, built environment).

Odour - Edmonton site is a positive example; need good mitigative measures; suck air in (i.e. negative pressure) while doors open for trucks; covering compost, covered facility

Vegetation - negative impacts because the facility takes up land; positive because of the possible use of compost

Other – vermin/wildlife - Currently, hunters control the coyotes, but they can't go on the landfill (i.e. City lawyers indicated this); Coyotes don't eat the garbage, but the mice



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and rats do and they attract coyotes. Coyotes a concern for livestock. Think about community solutions and needs. Hunters are safety conscious.  
 Water – needs a moat, proper monitoring (like Edmonton facility)

**Potential Impact on other Determinants of Health**

Other Determinants of Health – specify:	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Spills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Emergency plan needed
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.



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#### Potential Impacts on Sub-populations

Sub-population	Potential Impacts					Comments
	Not enough Information	Positive	Neutral	Negative	N/A	
Children (0-18 years)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	Exceptions – as mentioned, <b>negative</b> on younger generation in farm families; <b>positive</b> re: education opportunities for school children
Seniors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Women	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Men	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
People with dependents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Single or divorced people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Married people	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Minority sexual orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Chronically ill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓		Possibly negative as they may be more sensitive
Economically disadvantaged	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible job opportunity
Unemployed	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible job opportunity
Homeless	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Under-housed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Employed	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible, if better paying job available
People with disabilities	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible job opportunity? If consideration given to hiring differently abled
Racial or ethnic minority groups	<input type="checkbox"/>	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Possible job opportunity
New arrivals to Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
People with particular political or religious beliefs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✓	
Other (Specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



**APPENDIX C**  
**Summaries of Breakout Group Session Scoping HIA – Green Lane PLC Representatives Responses**

Note: Not all sub-populations are listed here, or a listed sub-population may need to be further subdivided. List added groups here:

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**If you have identified possible positive or negative impacts on health acting through other determinants of health, try to describe in what way you think an impact might happen.**

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## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Green Lane PLC Representatives Responses

## Part B

### Summarising your findings

#### Ranking Positive Impacts Prioritized

If you have identified any **positive** impacts for any of the determinants of health please prioritize these impacts. Please group these positive impacts into the following 3 categories:

#### **Very Important**

Education – both social and access to services  
Income/poverty/ Employment linked to eachother (tax dollars, “if it’s going to be here, there had better be some advantage to the community  
Community/social cohesion

#### **Important**

Land use, vegetation and soil quality (lots of factors to be considered) – outputs for use by local farmers  
Built environment – re: taxes

#### **Less Important**



## APPENDIX C

### Summaries of Breakout Group Session Scoping HIA – Green Lane PLC Representatives Responses

#### **Negative Impacts Prioritized**

If you have identified any **negative** impacts for any of the determinants of health please prioritize these impacts. Please group these negative impacts into the following 3 categories:

#### **Very Important**

Air quality, odour and water (surface and groundwater)  
Noise  
Transportation (Anne, manager, good at enforcing speed limit with truck drivers; seen as a safety issue)  
Family cohesion  
Community and social cohesion  
Impacts on subpopulations – chronically ill, people w disabilities (if no jobs), minorities – equality impacts

#### **Important**

Built Environment  
Coyote problem is important to agricultural communities (loss of livestock)  
Age  
Equality factors (re: farm population)  
Access to Health services (one member felt this was “very important”)  
Sexual Behaviour is important to look into to see if there are negative effects from working there. (weren’t sure where to put this (in between very and important?)  
Housing

#### **Less Important**

Crime



**APPENDIX C**  
**Summaries of Breakout Group Session Scoping HIA**

Tables 1 to 4 summarize the Stakeholder representatives' ranking of potential impacts from the proposed project, as identified in the individual group breakout sessions.

**Table 1: First Nations' Ranking of Potential Impacts from the Proposed Project**

Very/Most Important	Important	Less/Least Important
<b>Negative Impacts</b>		
<ul style="list-style-type: none"> <li>■ Air Quality</li> <li>■ Odour</li> <li>■ Vector borne illness</li> <li>■ Litter and dust</li> <li>■ Catastrophic failure of plant</li> </ul>	<ul style="list-style-type: none"> <li>■ Diet and exercise</li> <li>■ End use of CLO               <ul style="list-style-type: none"> <li>■ Application of CLO on lands used for food production?</li> </ul> </li> <li>■ Impacts on hunting, fishing and medicines</li> <li>■ Monitoring of environmental factors</li> <li>■ Water Quality/Vegetation/Soil Quality/Land Use</li> </ul>	
<b>Positive Impacts</b>		
<ul style="list-style-type: none"> <li>■ Local employment</li> </ul>	<ul style="list-style-type: none"> <li>■ Partnership with Toronto recycling program</li> </ul>	-

**Table 2: Township of Southwold Council's Ranking of Potential Impacts from the Proposed Project**

Very/Most Important	Important	Less/Least Important
<b>Negative Impacts</b>		
<ul style="list-style-type: none"> <li>■ Odour</li> <li>■ Dust</li> <li>■ Noise</li> <li>■ Water</li> <li>■ Environment</li> <li>■ Air</li> <li>■ Surface / groundwater</li> <li>■ Health</li> <li>■ Transportation</li> <li>■ Possible Contamination               <ul style="list-style-type: none"> <li>■ keep stockpile on concrete to prevent off site contamination</li> <li>■ batch Testing of compost to ensure quality</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Traffic</li> <li>■ Site's appearance</li> <li>■ Radiation</li> </ul>	<ul style="list-style-type: none"> <li>■ Groundwater</li> <li>■ Aesthetics</li> <li>■ Tourism</li> <li>■ Leisure</li> </ul>
<b>Positive Impacts</b>		
<ul style="list-style-type: none"> <li>■ Employment</li> <li>■ Education               <ul style="list-style-type: none"> <li>■ providing opportunities to school and general population</li> </ul> </li> <li>■ Income</li> <li>■ Social &amp; community cohesion               <ul style="list-style-type: none"> <li>■ can be achieved through education, community input and participation</li> </ul> </li> <li>■ Vegetation               <ul style="list-style-type: none"> <li>■ compost could be beneficial to local farmers</li> </ul> </li> <li>■ Recycling program for Southwold via City of Toronto</li> </ul>	<ul style="list-style-type: none"> <li>■ Education</li> <li>■ Income</li> <li>■ Built Environment</li> <li>■ Employment</li> </ul>	<ul style="list-style-type: none"> <li>■ Community and social cohesion</li> <li>■ Southwold's garbage going through the facility               <ul style="list-style-type: none"> <li>■ would promote "buy-in" from the community</li> </ul> </li> <li>■ Income</li> <li>■ Built Environment               <ul style="list-style-type: none"> <li>■ Landscaping could be enhanced</li> </ul> </li> <li>■ Employment               <ul style="list-style-type: none"> <li>■ very important, however probably small number of jobs created so considered less important</li> </ul> </li> </ul>



**APPENDIX C**  
**Summaries of Breakout Group Session Scoping HIA**

**Table 3: Elgin-St. Thomas Public Health and the Middlesex-London Health Unit's Ranking of Potential Impacts from the Proposed Project**

Very/Most Important	Important	Less/Least Important
<b>Negative Impacts</b>		
<ul style="list-style-type: none"> <li>■ Odour, air quality, dust</li> <li>■ Vector borne illness, scavengers, vermin</li> <li>■ Impact of catastrophic failure</li> <li>■ Stigma of "Garbage Alley"</li> </ul>	<ul style="list-style-type: none"> <li>■ Diet</li> <li>■ Physical activity</li> <li>■ CLO – quality could impact food supply</li> <li>■ Litter/nuisance</li> </ul>	<ul style="list-style-type: none"> <li>■ Transportation               <ul style="list-style-type: none"> <li>■ dust, aesthetic issues</li> </ul> </li> <li>■ Leisure</li> </ul>
<b>Positive Impacts</b>		
<ul style="list-style-type: none"> <li>■ Employment</li> <li>■ Compost output</li> </ul>	<ul style="list-style-type: none"> <li>■ Decrease in greenhouse gas production</li> <li>■ Waste diversion</li> <li>■ Recycling initiatives</li> <li>■ Research and development</li> </ul>	<ul style="list-style-type: none"> <li>■ Jobs               <ul style="list-style-type: none"> <li>■ approx 20 new jobs</li> </ul> </li> <li>■ Education</li> <li>■ Revenue               <ul style="list-style-type: none"> <li>■ social and community cohesion</li> </ul> </li> </ul>

**Table 4: Green Lane Landfill Public Liaison Committee's Ranking of Potential Impacts from the Proposed Project**

Very/Most Important	Important	Less/Least Important
<b>Negative Impacts</b>		
<ul style="list-style-type: none"> <li>■ Air quality, odour and water (surface and groundwater)</li> <li>■ Noise</li> <li>■ Transportation (Manager of landfill good at enforcing speed limit with truck drivers; seen as a safety issue)</li> <li>■ Family cohesion</li> <li>■ Community and social cohesion</li> <li>■ Impacts on subpopulations – chronically ill, people with disabilities (if no jobs), minorities – equality impacts</li> </ul>	<ul style="list-style-type: none"> <li>■ Built Environment</li> <li>■ Coyote problem is important to agricultural communities (loss of livestock)</li> <li>■ Age</li> <li>■ Equality factors (re: farm population)</li> <li>■ Access to Health services (one member felt this was "very important")</li> <li>■ "Sexual Behaviour" is important to look into to see if there are negative effects of possible contaminant exposure from working there (uncertain of the ranking; felt that it is between 'Very Important' and 'Important')</li> <li>■ Housing</li> </ul>	<ul style="list-style-type: none"> <li>■ Crime</li> </ul>
<b>Positive Impacts</b>		
<ul style="list-style-type: none"> <li>■ Education – both social and access to services</li> <li>■ Income/poverty/ Employment linked to each other (tax dollars, "if it's going to be here, there had better be some advantage to the community)</li> <li>■ Community/social cohesion</li> </ul>	<ul style="list-style-type: none"> <li>■ Land use, vegetation and soil quality (lots of factors to be considered) – outputs for use by local farmers</li> <li>■ Built environment – re: taxes</li> </ul>	

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