G.06 Open House #3 Comments and Feedback

From: Abbott, Wesley
To: [redacted]
Cc: Kittmer, Jane
Subject: FW: [EXTERNAL] New Waste Strategy ?
Date: November 16, 2020 10:20:39 AM

[redacted]

We would be happy to discuss the new waste management strategy with you outside of the upcoming Open Houses. This can be done via phone, email, virtual meeting (e.g., Zoom or Teams) or even an in-person meeting if necessary. Let me know which method you preferred and we can discuss logistics.

I will out of the office the rest of the day so if you send a further email today, I will not be able to respond until tomorrow.

Wesley
Cell 226-376-2311

-----Original Message-----
From: [redacted]
Sent: Monday, November 16, 2020 9:01 AM
To: Lee, Tracey <tlee@london.ca>
Subject: [EXTERNAL] New Waste Strategy ?

Hi.

Is it possible for London residents to submit their thoughts on the proposed program online ?

I lived in Toronto until 2016, and have years of experience as a resident there using the green bin program.

I don't have a vehicle, so the Southdale location is somewhat far to travel to wait to discuss this, then wait after dark for the bus(es) back home.

Thanks !

[redacted]

Abbott, Wesley

From: Abbott, Wesley
Sent: Wednesday, November 18, 2020 7:49 AM
To: [redacted]
Cc: Losee, Michael; Kittmer, Jane (jkittmer@London.ca)
Subject: RE: FW: [EXTERNAL] Open House

[redacted]

You are correct that not everyone receives the Londoner. We advertised in the Londoner because it is the most widely circulated paper in the city of London.

We also try to reach interested stakeholders (interested persons, businesses, organizations and government agencies) using other methods. These methods include advertising on the City website, advertising on other websites (e.g., London Environmental Network) and direct notification. In the past we have also placed notices in public locations (all city libraries and community centres) and used social media (e.g., Facebook).

As noted above interested stakeholders include interested persons, businesses, organizations and government agencies. Interested stakeholders receiving notices included:

- Tenants and property owners within 2 kilometres of the landfill
- All commercial customers of the landfill
- W12A Landfill Public Liaison Committee members
- Waste Management Community Liaison Committee members
- Any person who signed up to receive information at a previous open house or on the City project website
- Key community organizations (e.g., Urban League, Lambeth Community Association, Thames Region Ecological Association, London Environmental Network, etc.)
- Indigenous communities
- Government Review Team (approximately 25 government agencies and departments that the Ministry of Environment, Conservation and Parks recommended that we consult with)

See you Thursday night at the Open House.

Regards,
Wesley
Cell (226-376-2311)

From: [redacted]
Sent: Tuesday, November 17, 2020 7:57 PM
To: Abbott, Wesley <WAbbott@London.ca>
Subject: Re: FW: [EXTERNAL] Open House

I received no notices except the gentleman that hand delivered this week

we at times have not received the London for a month. The people distributed the Londoner were looking for a carrier.

who are 'interested stakeholders'?

On 11/16/2020 8:43 PM, Abbott, Wesley wrote:

[redacted]

See answers to your questions below.

Regards, Wesley

From: roy[redacted]
Sent: Friday, November 13, 2020 6:26 PM
To: Lee, Tracey <tlee@london.ca>
Subject: [EXTERNAL] Open House

interestingly, I never no advertisement for open houses in the past in the Londoner.

We have advertised all open houses in the Londoner, on the City website and send notices to all interested stakeholders

I want to book an appt, since we in the covid 19 phase Wednesday.

I would suggest 45 minutes to review the information. We have no available times left on Wednesday or early Thursday. We do have times available between 6:30 and 8:00 pm on Thursday November 19. Will any time in this period work?

Considering the growth of houses being built around London, Mt Brydges, Strathroy..or development in all sections of London for GTA residents, I was hoping the expansion of W12A would be much larger & focus to 2050.

At the start of the project, consideration was given to the length of time the new disposal planning period would cover. Planning periods considered were 20, 25, 30 and 35 years beyond the capacity of the existing City landfill. Based on a number of factors, it was determined that a 25 year planning period was the most appropriate. This is discussed in detail in the attached report *WMWG 2019 01 Project scope of work*. The main reason for selecting a 25 year period was any longer time frame would not be consistent with the Ministry of Environment, Conservation and Parks (MECP) document *Draft Final Strategy for a Waste-Free Ontario* and therefore would not be supported by the MECP.

I would like to see more education in the press & local media on recycling.

Education is a key part of the 60% Waste Diversion Action Plan for the City (Attached). See section 4.6.

Plus I have often wondered about opening a few garbage bags from various sections of London, to see what people throw out that could be recycled.

Details on the waste composition of garbage sent to landfill from single family residences and multi-family buildings can be found in the 60% Waste Diversion Action Plan for the City (Attached). See section 3.

We have a lot of people from Asia, India, Central America, Mexico & other off shore countries, that dont do recycling. Plus, since our North American plastics are not accepted by South Asian countries, namely Maylasia, then where are our plastics going. or are they being buried with normal trash.

All plastics collected by the City of London are sent to recycling companies located in Ontario, Quebec or the USA. These companies are listed below.

Plastic	End Market
PETE (#1)	Ice River Springs, Shelbourne ON Plastrec, Quebec
HDPE (#2)	ADS Inc, USA EFS--- ON & USA
Mixed (#3 to #7)	EFS-plastics
Bulky (oversized plastic containers	Soolo Inc & GFL Quebec

It should be noted that we are paid for all our plastics.

If you want to see a movie about this..watch WALL-E by Pixar. Centred in Chicago, the animated movie is about Big Lots of trash overwhelming earth..but centred on North America.

I am a member of Public Liason Committee. Unfortunately most of the discussions have been about Turkey Vultures, which will enjoy the food coming in from Londoners & so to be surrounding areas. Plus making the roads prettier, dont ask.

[redacted]

[redacted]

London, Ontario

Virus-free. www.avg.com

Mail > View Package Details

Done

General | Activity

Package ID	d84e98a1-5500-4e17-9d31-ec52a2cfabf4
Status	Inactive - Files have been deleted
Package Size	0.00 KB
Package Type	Secure Mail
Created On	11/26/20 2:31:32 PM
Modified On	11/29/20 6:28:49 PM
Sent On	11/26/20 2:51:14 PM
Inactivated On	11/29/20 6:28:49 PM
From	WAbbott@London.ca
To	consultation.coordinator@caldwellfirstnation.ca, consultation.assistant@caldwellfirstnation.ca
CC	
BCC	
Subject	W12A Landfill - Proposed Expansion
Message	As requested at the Open House for the expansion of the W12A Landfill, please find attached the archaeology and biology reports for this project. These reports are in draft. Let me know if you have any questions . Wesley (226-376-2311)

Options

Expires On	11/29/20 2:51:14 PM
Maximum Downloads	10
Protection Level	URL Protected
Send Me A Copy	no
Notify Me When Package Is Read	no
Reply Allowed	yes

Attachments

1648176-40000-R01 White Oak 1 (AfHh-926) St. 3.pdf	20.85 MB
Archaeology _ Overall Summary Report.pdf	468.45 KB
RPT-2020-11-17-W12A-Biology Assessment-60556244_complied.pdf	76.47 MB
Stage 2_EA Expansion Area.pdf	178.65 MB

Abbott, Wesley

From: Losee, Michael
Sent: Wednesday, December 16, 2020 1:47 PM
To: [redacted]
Cc: Stanford, Jay; Abbott, Wesley; [redacted]; Kittmer, Jane
Subject: RE: W12A November meeting

[redacted]

Sorry for the delay in responding. We were hoping to include the rendering of what the expanded landfill would look like from your home but unfortunately we are still waiting for this from our visual impact consultants (Ron Koudys Landscape Architects). This will be forwarded once we receive it. In the meantime the answers to your other questions are provided below.

1) **we would like to see a photo in advance of what the W12A will look like from our house once the expansion is done. There are photos from down the street but nothing from our house. Is this possible?**

Response
As mentioned above, we are waiting for the rendering of what the expanded landfill would look like from your home from our visual impact consultant and will forward the rendering once it is completed.

2) we would like to confirm the berm build will start from the south and head north to help mask the increase in noise we will hear as well as the sight since we are the closest neighbour.

Response
Visual Screening of Landfill Operations
The landfill expansion will have waste placed initially to build a berm along the south side of the landfill's waste footprint and will be covered with final cover soil and seeded to establish vegetation. The berm will screen the view of subsequent filling operations north of the berm from off-site vantage points to the south. The south side perimeter waste berm would be raised sequentially and filled in behind until the highest elevation is reached.

Noise Mitigation of Landfill Operations
Two additional mitigation measures will be implemented to reduce the noise of landfill operations at your home. The first mitigation measure is working equipment will always be within 50 metres of a 5 metre high berm when operating within 330 metres of your home. This means a second berm, in addition to the screening berm, may be required at certain locations when working in the vicinity of your home.

The second mitigation measure is no night time operations (11 pm to 7 am) will be allowed within 380 metres of your home unless operating behind a 5 metre high berm. Night time operations can occur when lime stabilized dewatered biosolids (dewatered sewage sludge) are being received and disposed at the landfill. This occurs whenever the Greenway Wastewater Treatment Plan Incinerator, which is typically used to manage these biosolids, is off-line for routine maintenance or for emergency repairs. The incinerator is typically shut down for three weeks per year for inspection and maintenance; however, some years the shutdown could be extended, or a second shutdown required

if the inspection discovers additional repairs that are required. In addition, re-builds or major equipment repairs typically occur approximately every five years or longer and can take up to two to three months to complete. During a shutdown the landfill may receive a load of biosolids (approximately 15 tonnes) every 75 to 90 minutes 24 hour per day. Disposal of the biosolids involves excavating a hole in the existing waste in the active area (when practical) prior to the load arriving and covering the biosolids with daily cover soil as soon as the load has been dumped."

3) **we saw in the presentation that there is consideration being made to increase the range of consideration for the yearly compensation. If the range is increased would the amount of yearly compensation we receive increase? Is there an application we can make to have our yearly compensation increased given the direct impact the expansion will have on us specifically?**

Response
The document "*Review of Current W12A Landfill Community Enhancement and Mitigative Measures Program (CEMMP)*" discusses the current Right of First Refusal Program and potential revisions to the program because of the landfill expansion. The document discusses potential changes to payments to two groups of property owners. The proposed changes are for home owners living on Manning Drive (part of the landfill's haul route) and homeowners within the current area of eligibility (within 1.5 kilometres of the landfill) and who do not receive payments because they purchased the property after 2006.

The document notes that the current program provides funds to property owners further from the landfill than most other landfills and the level of funding is generally higher than payments in other programs. For this reason, no changes to the area of eligibility or payment amounts for property owners were proposed other than those mentioned above. Although the document does not propose more changes, the City is hoping to receive feedback on what potential changes the community would like to see.

4) **the "vacant" land that the city owns around the landfill. How could we see it used to encourage nesting of species at risk? One example is barn swallows who nest only in barns. Their numbers are declining as their habitat is disappearing. Could barn-like structures be built specifically for the purpose to help grow their species?**

Response
The use of City land to encourage the nesting of birds, including species at risk, would likely best be handled through the Community Enhancement and Mitigative Measures Program. This could be considered as one of the potential changes to the program when it is updated over the next several months.

One option for how this could work would be for the City to identify lands that they would make available for such purposes (e.g., not in agricultural production, not needed in the future for other uses, etc.) and the W12A Landfill PLC use funds from the Community Enhancement Fund to establish features on the land to encourage nesting (e.g., barn like structures for barn swallows).

Regards,

Michael Losee B.Sc.
Division Manager
Solid Waste Management
City of London

300 Dufferin Ave N6A 4L9
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mlosee@london.ca | www.london.ca

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From: [redacted]
Sent: Monday, December 7, 2020 8:21 AM
To: Kittmer, Jane <jkittmer@London.ca>
Cc: Stanford, Jay <JSTANFOR@London.ca>; Losee, Michael <mlosee@London.ca>; Abbott, Wesley <WAbbott@London.ca>; [redacted]
Subject: [EXTERNAL] RE: W12A November meeting

Good morning,

[redacted] and I have been meaning to follow up on some questions we had from the open house this past November. To make them easy to follow I'll simply set them out in point form:

1) we would like to see a photo in advance of what the W12A will look like from our house once the expansion is done. There are photos from down the street but nothing from our house. Is this possible?

2) we would like to confirm the berm build will start from the south and head north to help mask the increase in noise we will hear as well as the sight since we are the closest neighbour.

3) we saw in the presentation that there is consideration being made to increase the range of consideration for the yearly compensation. If the range is increased would the amount of yearly compensation we receive increase? Is there an application we can make to have our yearly compensation increased given the direct impact the expansion will have on us specifically?

and finally

4) the "vacant" land that the city owns around the landfill. How could we see it used to encourage nesting of species at risk? One example is barn swallows who nest only in barns. Their numbers are declining as their habitat is disappearing. Could barn-like structures be built specifically for the purpose to help grow their species?

Thank you for your consideration, we look forward to hearing from you.

[redacted]

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From: Kittmer, Jane [mailto:jkittmer@London.ca]
Sent: Thursday, November 19, 2020 10:29 AM
To: [redacted]
Cc: Stanford, Jay; Losee, Michael; Abbott, Wesley
Subject: RE: W12A November meeting

Hi [redacted],

Thanks for your message about the open house. I'm glad that you found out about it. I had sent you and [redacted] a package in the mail with info about the open house and some additional information that I have attached. I can send you hard copies of these again if you would like (or maybe I will drop them off instead).

This open house is the last one. In the upcoming months, the City will submit the EA Report to the Ministry of Environment, Conservation and Parks. You will be able to comment to the Ministry directly on this project.

Feel free to contact us at any time to ask questions. We can arrange to meet in person or virtually.

Jane

Jane Kittmer
Technician
Solid Waste Management
City of London

300 Dufferin Ave, P.O. Box 5035, London ON N6A 4L9
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jkittmer@london.ca | www.london.ca

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From: Lee, Tracey
Sent: Thursday, November 19, 2020 8:29 AM
To: Stanford, Jay <JSTANFOR@London.ca>; Losee, Michael <mlosee@London.ca>; Abbott, Wesley <WAbbott@London.ca>; Kittmer, Jane <jkittmer@London.ca>
Subject: FW: W12A November meeting

Good morning, please see the complimentary comments from [redacted] regarding last night's Open House below.

Thanks

Tracey Lee
Divisional Admin Assistant
Solid Waste Management
City of London

300 Dufferin Ave, London, ON N6A 4L9
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tlee@london.ca | www.london.ca

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From: [redacted]
Sent: Thursday, November 19, 2020 8:12 AM
To: Lee, Tracey <tlee@london.ca>
Subject: [EXTERNAL] RE: W12A November meeting

Good morning Tracey,

I just wanted to send a quick Thank You email for the open house last night. I can appreciate in "these times" how difficult any "gatherings" are and Jody and I both appreciate that the City allowed this in-person open house to happen. It was very informative. Please pass our thanks on to those who made it happen as well as to Wes and Mike.

If you could alert me personally to the next one it would be appreciated. I heard about this from [redacted] when I was speaking with him about the W12A PLC we are both on, otherwise I would have missed it. 😊

[redacted]

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From: Kittmer, Jane
Sent: November 24, 2020 9:17 AM
To: [redacted]
Cc: Kelly Riley; Stanford, Jay; Abbott, Wesley
Subject: RE: City of London - Notice of Open House for Environmental Assessment - Proposed Landfill Expansion

Hi [redacted],

The presentations that were shown at the open house can be seen on the project website. If you have any questions or comments, you can send them to Jay Stanford or Wes Abbott (cc'd) or we would be happy to meet virtually with you.

Please let me know if you have any other questions.

Jane

Jane Kittmer
Technician
Solid Waste Management
City of London

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P: 519.661.CITY(2489) x 2334 | Fax: 519.661.2354
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From: [redacted]
Sent: Monday, November 23, 2020 3:40 PM
To: Kittmer, Jane <jkittmer@London.ca>
Cc: [redacted]
Subject: [EXTERNAL] RE: City of London - Notice of Open House for Environmental Assessment - Proposed Landfill Expansion

Good afternoon Jane,

Unfortunately a representative from Chippewas of the Thames First Nation was unable to attend the open house. Due to the pandemic our staff are currently only meeting virtually at this time. However, is the information from the open house available online?

Thanks,

[redacted]

[redacted], Chippewas of the Thames First Nation
320 Chippewa Rd Muncey, ON N0L 1Y0 | 519-289-5555 | www.cottfn.com/consultation

This email or documents accompanying this email contain information belonging to the Chippewas of the Thames First Nation. Which may be confidential and/or legally privileged. The information is intended only for the addressed recipients(s). If you are not an intended recipient, you are hereby notified that any disclosure, copying, distribution, or the taking of any action in reliance on the contents of this email. Is strictly prohibited. If you have received this email in error, please advise my office and delete it from your system.

From: Kittmer, Jane <jkittmer@London.ca>
Sent: November 9, 2020 9:41 AM
To: Consultation <consultation@cottfn.com>; [redacted]
Cc: Stanford, Jay <JSTANFOR@London.ca>; Abbott, Wesley <WAbbott@London.ca>
Subject: City of London - Notice of Open House for Environmental Assessment - Proposed Landfill Expansion

Good morning,

I am forwarding you information that was mailed to Chief Jacqueline French regarding the upcoming Open Houses for the EA of the proposed W12A Landfill expansion.

Please let me know if you have any questions.

Regards,

Jane Kittmer
Technician
Solid Waste Management
City of London

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From: Stanford, Jay
Sent: [redacted]
Cc: Kittmer, Jane; Losee, Michael
Subject: EA Responses

Follow Up Flag: Follow up
Flag Status: Flagged

Hi [redacted],

Please find responses to the comments and questions from you during our discussion at the Open Houses in November 2020. I apologize that the response was not provided more quickly. The pandemic has delayed a number of activities at the City of London.

We are pleased to capture our responses in writing.

1. **Concerned over potential increase in odours my property due to increase landfill height. Asked to see data from other landfills that have expanded vertically.**

We discussed this issue with two consultants working this project (Golder Associates and Dillon Consulting) who do extensive landfill work throughout the Province. Each have been involved in many landfill designs. Each also prepare annual reports for several landfills. These reports are submitted to the Ministry of the Environment, Conservation and Parks (MECP) and include landfill gas monitoring and odour complaint data. Neither consultant is aware of any landfill that has undergone a vertical expansion and has compiled historical landfill odour complaint data by distance from the landfill.

As mentioned at the Open House, preliminary air quality modelling completed for the Environmental Assessment indicates that the proposed expansion will be within the MECP guideline. The preliminary assessment is documented in the draft report "Air Quality Existing Conditions and Impact Assessment W12A Landfill Expansion EA, City of London, Ontario" (Golder Associates, 2020). The report can be found at *www.getinvolved.london.ca/whywastedisposal*.

Additional air quality modelling and monitoring will be undertaken as we seek the more technical Environmental Protection Act approval for the landfill expansion and during initial operations of the landfill expansion. This will include:

- Verify that the odour emission rates used
- in the odour assessment were reasonable, but conservative. This will include:
  - One-time landfill gas sampling early in the expansion to confirm emission rates from the site of indicator compounds
  - Sampling analysis to include odourous compounds, Vinyl Chloride and Hydrogen Sulphide
- Review and update the odour management plan and complaints response protocol

In reality, the goal of the MECP and the City is to reduce and minimize off-site odours from landfill site operations as much as possible This is why the design of the landfill expansion will incorporate a number of measures to reduce odours such as:

- Installation of both horizontal collector pipes during ongoing landfilling operations and vertical wells during landfill cell closure to increase the capture of landfill gas (which contains the compounds that cause odour)
- Approximately double the size of the existing gas flaring station
- Minimize the size of the active tipping face as much as practical
- Progressively place final cover and expand the gas collection system on the landfill

We started using both horizontal collector pipes and vertical wells to capture landfill gas in the most recent landfill gas collection system expansion this past spring. This has resulted in a significant increase in the amount of landfill gas we are capturing from this area of the landfill. We believe this is one of the reasons the number of odour complaints received in 2020 were lower than in previous years.

2. Approval should include a sunset clause when landfill has to close.
Approval by the Ministry of the Environment, Conservation and Parks for a landfill expansion is given for a specific volume of waste not a set period of time. The landfill would not function as designed if less waste is received. For example, the different shape of the landfill would result in surface water flows being different which would impact the operation of the stormwater management ponds.

Future Municipal Councils always have the opportunity to determine where garbage within its responsibility (i.e., residential waste) is delivered and whether or not a landfill site should continue to be owned and/or operated by the City. For example, this was last discussed and voted on in 2006 and re-confirmed when Council, in 2015, approved undertaking the EA for the expansion of the W12A Landfill.

3. What can the City do to screen their view of the landfill's operating equipment from properties to the north?
The existing Community Enhancement and Mitigative Measures Program will be seeking stakeholder feedback on how the program can be improved including what are appropriate screening measures for private properties. This could include the City providing funding to properties with visual impacts to construct screening measures (e.g., plant trees). This item was raised at the W12A PLC meeting on February 25, 2021.

Regards. . .

Jay Stanford, M.A., M.P.A. (he/him)
Director, Environment, Fleet & Solid Waste
Environmental & Engineering Services
City of London

300 Dufferin Ave, P.O. Box 5035 London, Ontario N6A 4L9
P: 519.661.CITY (2489) x 5411 | Cell: 519.851.5423
jstanfor@london.ca | www.london.ca

From: Losee, Michael
Sent: February 24, 2021 1:57 PM
To: [redacted]
Cc: Abbott, Wesley; Kittmer, Jane
Subject: Proposed W12A Landfill Expansion
Attachments: 3018 heritage court backyard beside shed towards vertical expansion.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Hi [redacted]

Sorry for the delay in responding. At the open house for the environmental assessment for the expansion of the W12A Landfill you requested a rendering of the view of the expanded landfill from your property. We have finally received the rendering and are forwarding it to you. Please note renderings have a less dramatic visual effect than the actual feature in real life.

Please contact me if you have any additional questions or comments,

Regards,

Michael Losee B.Sc.
Division Manager
Solid Waste Management
City of London

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mlosee@london.ca | www.london.ca

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From: Losee, Michael
Sent: February 23, 2021 3:13 PM
To: [redacted]
Cc: Abbott, Wesley; Kittmer, Jane
Subject: Proposed W12A Landfill Expansion
Attachments: [redacted] From driveway vertical expansion.pdf; [redacted] towards vertical expansion.pdf; Map 3 - Residential Garbage Fee Exemption Area.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Hi [redacted],

Further to your conversation with Wesley Abbott on Friday December 18, please see additional information on the issues discussed.

Renderings of [redacted]
Attached are renderings of the W12A Landfill expansion from [redacted]. Please note the consultant provided a rendering of the view from west of [redacted] which is approximately where 3556 Westminster would be. There is no rendering of [redacted] as the landfill expansion will not be visible from this property. As discussed, renderings have a less dramatic visual effect than the actual feature in real life.

Potential for Odours
When approving projects, the Ministry of Environment, Conservation and Parks (MECP) uses a guideline of 1 OU/m³ based on the 99.5 percentile on a ten minute time averaging period to assess the potential for odour nuisance at a potential receptor off the landfill site. Preliminary air quality monitoring completed for the Environmental Assessment indicates that with the proposed expansion we will be within the MECP guideline. This preliminary assessment is documented in the draft report *Air Quality Existing Conditions and Impact Assessment W12A Landfill Expansion EA, City of London, Ontario* (Golder Associates, 2020) and available for review at *www.getinvolved.london.ca/whywastedisposal*.

Additional air quality modelling and monitoring will be undertaken as we seek the more technical Environmental Protection Act approval for the landfill expansion and during initial operations of the landfill expansion. This will include:

- Verify that the odour emission rates used in the odour assessment were reasonable, but conservative. This will include:
    - One-time landfill gas sampling early in the expansion to confirm emission rates from the site of indicator compounds
    - Sampling analysis to include odourous compounds, Vinyl Chloride and Hydrogen Sulphide
- Review and update the odour management plan and complaints response protocol

In reality, the goal of the MECP and the City is to reduce and minimize off-site odours from landfill site operations as much as possible This is why the design of the landfill expansion will incorporate a number of measures to reduce odours such as:

- Installation of both horizontal collector pipes during ongoing landfilling operations and vertical wells during landfill cell closure to increase the capture of landfill gas (which contains the compounds that cause odour)
- Approximately double the size of the existing gas flaring station
- Minimize the size of the active tipping face as much as practical
- Progressively place final cover and expand the gas collection system on the landfill (every six months to 12 months)

We started using both horizontal collector pipes and vertical wells to capture landfill gas in the most recent landfill gas collection system expansion this past Spring. This has resulted in a significant increase in the amount of landfill gas we are capturing from this area of the landfill, which is demonstrated by a much lower number of odour complaints received in 2020.

Disposal of Residential Garbage
Residents in the area outlined in Map 3 (attached) are not subject to fees or charges for the disposal of residential waste from their property up to 200 kg per week at the landfill. [redacted] are located within this area. Residents bringing garbage from these properties to the landfill will need to be able to show proof they live there (e.g., driver's licence) or own the property (property tax bill).

Regards,

Michael Losee B.Sc.
Division Manager
Solid Waste Management
City of London

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mlosee@london.ca | www.london.ca

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From: Losee, Michael
Sent: February 24, 2021 1:57 PM
To: [redacted]
Cc: Abbott, Wesley; JW Liddiard; Kittmer, Jane
Subject: RE: W12A November meeting
Attachments: [redacted] - view from front yard looking northwest.jpg; [redacted] - view from front yard looking close to street.jpg; [redacted] - view from front porch looking northeast.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Hi [redacted]

We have finally received the renderings of what the W12A Landfill expansion would look like from your property. Three renderings were generated for your property; one looking east, one looking west and one looking straight ahead. Please note renderings have a less dramatic visual effect than the actual feature in real life.

We have also spoken to a representative from your current internet service provider Execulink. They own two radio towers in the nearby area; one is at Wonderland Rd S & Harry White Dr, and the other is at Wellington Rd S & Ferguson Line (see attached map). The representative clarified that there would be no impact from the landfill site expansion on the radio wave transmission from the towers to the receiver installed at your property.

Please contact me if you have any further comments for questions.

Regards

Michael Losee B.Sc.
Division Manager
Solid Waste Management
City of London

300 Dufferin Ave N6A 4L9
P: 519.661.CITY(2489) x 7369 | Cell: 226.268.7353 | Fax: 519.661.2354
mlosee@london.ca | www.london.ca

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From: Losee, Michael
Sent: Wednesday, December 16, 2020 1:47 PM
To: [redacted]

Cc: Stanford, Jay <jstanfor@london.ca>; Abbott, Wesley <wabbott@london.ca>; [redacted]; Kittmer, Jane <jkittmer@london.ca>
Subject: RE: W12A November meeting

[redacted]

Sorry for the delay in responding. We were hoping to include the rendering of what the expanded landfill would look like from your home but unfortunately we are still waiting for this from our visual impact consultants (Ron Koudys Landscape Architects). This will be forwarded once we receive it. In the meantime the answers to your other questions are provided below.

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Response
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Response
Visual Screening of Landfill Operations
The landfill expansion will have waste placed initially to build a berm along the south side of the landfill's waste footprint and will be covered with final cover soil and seeded to establish vegetation. The berm will screen the view of subsequent filling operations north of the berm from off-site vantage points to the south. The south side perimeter waste berm would be raised sequentially and filled in behind until the highest elevation is reached.

Noise Mitigation of Landfill Operations
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The second mitigation measure is no night time operations (11 pm to 7 am) will be allowed within 380 metres of your home unless operating behind a 5 metre high berm. Night time operations can occur when lime stabilized dewatered biosolids (dewatered sewage sludge) are being received and disposed at the landfill. This occurs whenever the Greenway Wastewater Treatment Plan Incinerator, which is typically used to manage these biosolids, is off-line for routine maintenance or for emergency repairs. The incinerator is typically shut down for three weeks per year for inspection and maintenance; however, some years the shutdown could be extended, or a second shutdown required if the inspection discovers additional repairs that are required. In addition, re-builds or major equipment repairs typically occur approximately every five years or longer and can take up to two to three months to complete. During a shutdown the landfill may receive a load of biosolids (approximately 15 tonnes) every 75 to 90 minutes 24 hour per day. Disposal of the biosolids involves excavating a hole in the existing waste in the active area (when practical) prior to the load arriving and covering the biosolids with daily cover soil as soon as the load has been dumped."

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The document notes that the current program provides funds to property owners further from the landfill than most other landfills and the level of funding is generally higher than payments in other programs. For this reason, no changes to the area of eligibility or payment amounts for property owners were proposed other than those mentioned above. Although the document does not propose more changes, the City is hoping to receive feedback on what potential changes the community would like to see.

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Response
The use of City land to encourage the nesting of birds, including species at risk, would likely best be handled through the Community Enhancement and Mitigative Measures Program. This could be considered as one of the potential changes to the program when it is updated over the next several months.

One option for how this could work would be for the City to identify lands that they would make available for such purposes (e.g., not in agricultural production, not needed in the future for other uses, etc.) and the W12A Landfill PLC use funds from the Community Enhancement Fund to establish features on the land to encourage nesting (e.g., barn like structures for barn swallows).

Regards,

Michael Losee B.Sc.
Division Manager
Solid Waste Management
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mlosee@london.ca | www.london.ca

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From: [redacted]
Sent: Monday, December 7, 2020 8:21 AM
To: Kittmer, Jane <jkittmer@London.ca>
Cc: Stanford, Jay <JSTANFOR@London.ca>; Losee, Michael <mlosee@London.ca>; Abbott, Wesley <WAbbott@London.ca>; [redacted]
Subject: [EXTERNAL] RE: W12A November meeting

Good morning,

[redacted] and I have been meaning to follow up on some questions we had from the open house this past November. To make them easy to follow I'll simply set them out in point form:

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Thank you for your consideration, we look forward to hearing from you.

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From: Kittmer, Jane [mailto:jkittmer@London.ca]
Sent: Thursday, November 19, 2020 10:29 AM
To: [redacted]
Cc: Stanford, Jay; Losee, Michael; Abbott, Wesley
Subject: RE: W12A November meeting

Hi [redacted]

Thanks for your message about the open house. I'm glad that you found out about it. I had sent you and [redacted] a package in the mail with info about the open house and some additional information that I have attached. I can send you hard copies of these again if you would like (or maybe I will drop them off instead).

This open house is the last one. In the upcoming months, the City will submit the EA Report to the Ministry of Environment, Conservation and Parks. You will be able to comment to the Ministry directly on this project.

Feel free to contact us at any time to ask questions. We can arrange to meet in person or virtually.

Jane

Jane Kittmer
Technician
Solid Waste Management
City of London

300 Dufferin Ave, P.O. Box 5035, London ON N6A 4L9
P: 519.661.CITY(2489) x 2334 | Fax: 519.661.2354
jkittmer@london.ca | www.london.ca

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From: Lee, Tracey
Sent: Thursday, November 19, 2020 8:29 AM
To: Stanford, Jay <JSTANFOR@London.ca>; Losee, Michael <mlosee@London.ca>; Abbott, Wesley <WAbbott@London.ca>; Kittmer, Jane <jkittmer@London.ca>
Subject: FW: W12A November meeting

Good morning, please see the complimentary comments from [redacted] regarding last night's Open House below.

Thanks

Tracey Lee
Divisional Admin Assistant
Solid Waste Management
City of London

300 Dufferin Ave, London, ON N6A 4L9
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tlee@london.ca | www.london.ca

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From: [redacted]
Sent: Thursday, November 19, 2020 8:12 AM
To: Lee, Tracey <tlee@london.ca>
Subject: [EXTERNAL] RE: W12A November meeting

Good morning Tracey,

I just wanted to send a quick Thank You email for the open house last night. I can appreciate in "these times" how difficult any "gatherings" are and [redacted] and I both appreciate that the City allowed this in-person open house to happen. It was very informative. Please pass our thanks on to those who made it happen as well as to Wes and Mike.

If you could alert me personally to the next one it would be appreciated. I heard about this from [redacted] when I was speaking with him about the W12A PLC we are both on, otherwise I would have missed it. 😊

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From: Losee, Michael
Sent: February 24, 2021 2:08 PM
To: [redacted]
Cc: Abbott, Wesley; JW Liddiard; Kittmer, Jane
Subject: RE: W12A November meeting
Attachments: Execulink Tower W12A Area.PNG

Follow Up Flag: Follow up
Flag Status: Flagged

Hi apologies. My previous email did not include the attachment showing the Execulink Tower locations. It is attached now.

Thanks.

Mike L.

From: Losee, Michael
Sent: Wednesday, February 24, 2021 1:57 PM
To: [redacted]
Cc: Abbott, Wesley <wabbott@london.ca>; [redacted]>; Kittmer, Jane <jkittmer@london.ca>
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Subject: RE: W12A November meeting

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Division Manager
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Sent: Monday, December 7, 2020 8:21 AM
To: Kittmer, Jane <jkittmer@London.ca>
Cc: Stanford, Jay <JSTANFOR@London.ca>; Losee, Michael <mlosee@London.ca>; Abbott, Wesley <WAbbott@London.ca>; [redacted]
Subject: [EXTERNAL] RE: W12A November meeting

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[redacted]

[redacted]

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From: Kittmer, Jane [mailto:jkittmer@London.ca]
Sent: Thursday, November 19, 2020 10:29 AM
To: [redacted]
Cc: Stanford, Jay; Losee, Michael; Abbott, Wesley
Subject: RE: W12A November meeting

Hi [redacted],

Thanks for your message about the open house. I'm glad that you found out about it. I had sent you and [redacted] a package in the mail with info about the open house and some additional information that I have attached. I can send you hard copies of these again if you would like (or maybe I will drop them off instead).

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Jane

Jane Kittmer
Technician
Solid Waste Management
City of London

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Subject: FW: W12A November meeting

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Solid Waste Management
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To: Lee, Tracey <tlee@london.ca>
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From: Stanford, Jay
Sent: February 28, 2021 7:37 PM
To: [redacted]
Cc: Losee, Michael; Kittmer, Jane
Subject: Response to [redacted]
Attachments: CEMMP Update Discussion Paper 2020.pdf; City of London Landfill Expansion Wind Effects Evaluation_23Feb2021.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Dear [redacted]

Thanks again for attending our Open House for the EA for the expansion of the W12A Landfill on November 18, 2020. At the open house your raised a couple of matters with respect the W12A Landfill expansion and potential impacts to the near-by Islamic Cemetery of London. We have tried to paraphrase your comments/concerns below and provided a response.

1. **Turkey vultures are causing damage to the property especially by roosting on the pump building.**

Response
The W12A Landfill Community Enhancement and Mitigative Measures Program (CEMMP) is part of the City's overall effort to reduce and address the negative effects of the W12A Landfill on neighbouring properties surrounding the W12A Landfill. Information on the program was available at the Open House. This program is being updated in conjunction with the expansion of the W12A Landfill. The attached document "*Review of Current W12A Landfill Community Enhancement and Mitigative Measures Program (CEMMP)*" discusses the current program and potential changes.

The document talks briefly about potential bird control measures for turkey vultures on page 16 of the document. The document notes that a proposed pilot project to test ways to protect buildings from turkey vultures did not proceed. We could consider implementing the pilot project on your property. Subject to having successful results, appropriate vulture control measures would be made available to any properties within the vicinity of the landfill who wanted them.

2. **The increase height of the landfill may change wind patterns and adversely impact the cemetery.**

A desktop analysis was completed to evaluate the effects of wind flows on the cemetery and is summarized in the attached Memo

Response. The analysis concluded that the cemetery is located outside the highly turbulent region where wind effects induced by the landfill expansion are likely. Consequently, the landfill expansion is unlikely to have significant effects on wind flows at the cemetery.

I apologize for the delay in responding. Let me know if you have any questions or comments regarding the above and if you are interesting in implementing a pilot project at the cemetery to discourage roosting of turkey vultures.

Regards,

Jay Stanford, M.A., M.P.A. (he/him)
Director, Environment, Fleet & Solid Waste
Environmental & Engineering Services
City of London

300 Dufferin Ave, P.O. Box 5035 London, Ontario N6A 4L9
P: 519.661.CITY (2489) x 5411 | Cell: 519.851.5423
jstanfor@london.ca | www.london.ca

MEMORANDUM

DATE February 23, 2021 **Project No.** 1648176

TO Trish Edmond (MESc, PEng) Geoenvironmental Engineer / Principal
Golder Associates Ltd.

CC Jamie McEvoy

FROM Zimu Yu **EMAIL** zimuyu@golder.com

A DESKTOP ANALYSIS OF WIND EFFECTS OF CITY OF LONDON LANDFILL EXPANSION ON THE NEARBY CEMETERY

1.0 INTRODUCTION

The City of London is proposing an expansion of the existing W12A Landfill site (the Landfill Expansion) located at 3502 Manning drive, part of Lots 18, 19, and 20 of Concession 6 in the former Township of Westminster, in the south end of the City of London, Ontario. The Landfill Expansion consists of a vertical expansion over the existing landfill footprint to provide 13.8 million cubic meters of airspace for waste and daily cover. The expansion will result in a 106.3 hectare (ha) landfill footprint within a 192.4 ha landfill property, with a highest ridge elevation of waste at 318.43 meters above sea level (masl), approximately 43.5 meters (m) above grade. The final design contours for the top of waste are shown on Figure 1, which is taken from Section 8 of the Environment Assessment of the Proposed W12A Landfill expansion (Figure 8.1-1). The landfill side-slope portions extend upwards from the existing side-slopes at a 4Horizontal (H):1Vertical (V) ratio and the top slope portion is at a 5% grade (i.e., 20H:1V) (Golder 2020).

The Islamic cemetery of London (the cemetery) is located south of the southwest quarter of the landfill. The shortest distance from the existing cemetery to the edge of landfill is approximately 208.6 m. The operator of the cemetery has raised a concern regarding the potential for effects on wind flows from the Landfill Expansion. To evaluate the effects of wind flows on the cemetery, a desktop analysis has been conducted. This technical memorandum summarizes the methods, results, and conclusions of the desktop analysis.

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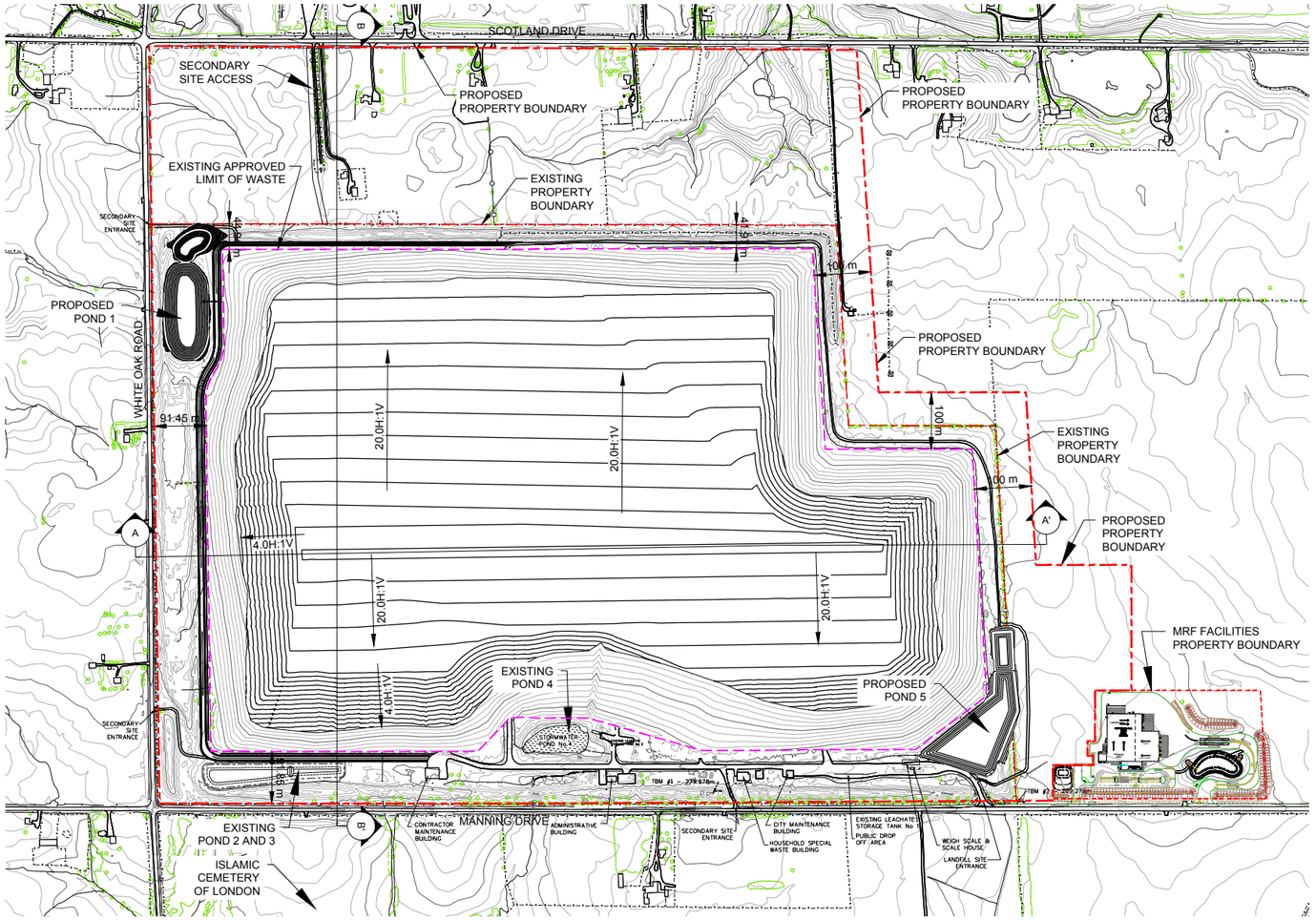
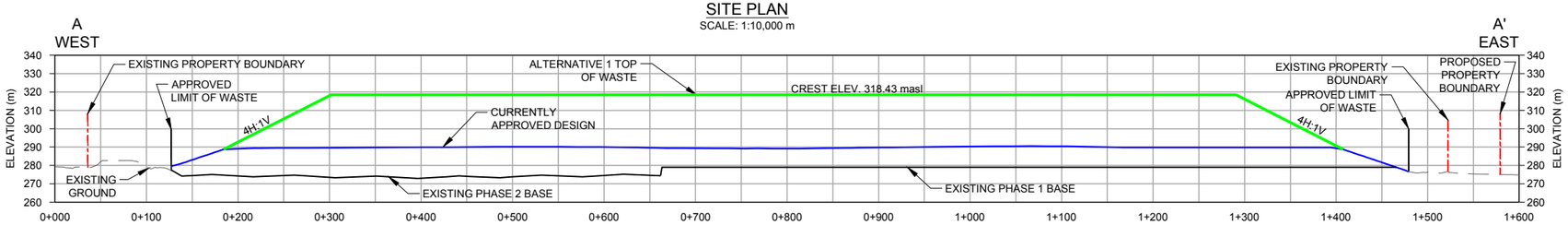
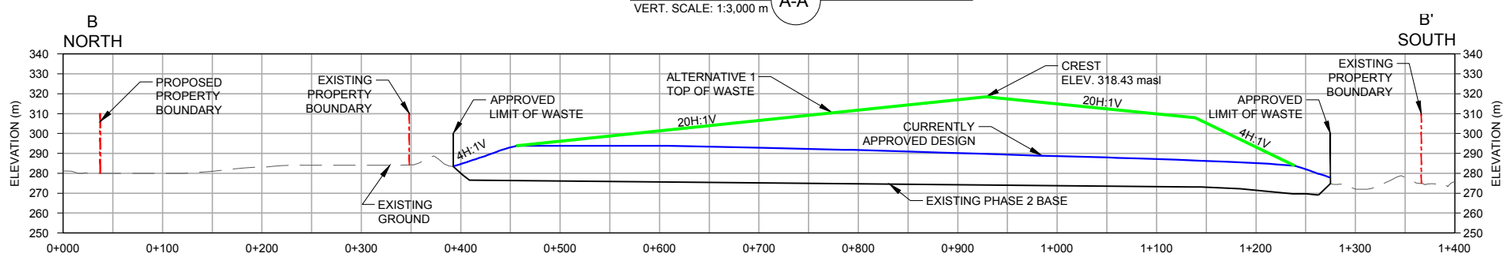


SITE PLAN
SCALE: 1:10,000 m

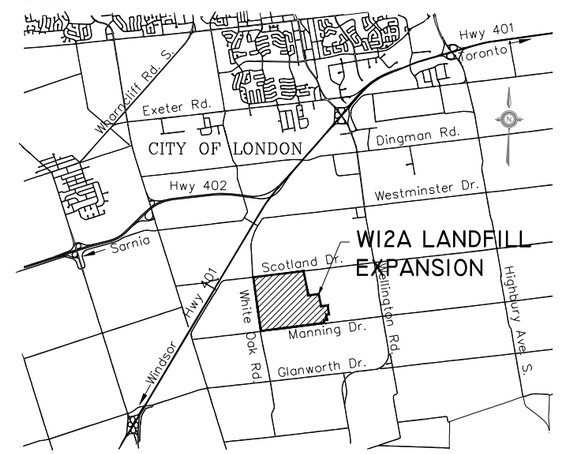


HORIZ. SCALE: 1:6,000 m
VERT. SCALE: 1:3,000 m
A-A' CROSS-SECTION



HORIZ. SCALE: 1:6,000 m
VERT. SCALE: 1:3,000 m
B-B' CROSS-SECTION

KEY MAP



NOTE(S)
1. ELEVATION CONTOURS SHOWN ARE TOP OF WASTE, masl.

REFERENCE(S)
BASE INFORMATION AND EXISTING CONTOURS AS PER CITY OF LONDON SURVEY DATED NOVEMBER 22, 2016.

0 100 200
1:6,000 METRES
0 250 500
1:10,000 METRES

CLIENT
CITY OF LONDON
LONDON, ONTARIO
CANADA

PROJECT
WIND ASSESSMENT - W12A LANDFILL EXPANSION

TITLE
LANDFILL EXPANSION FINAL CONTOUR PLAN AND CROSS-SECTIONS

CONSULTANT
GOLDER

YYYY-MM-DD	2020-10-22
DESIGNED	MLF
PREPARED	MLF/JEM
REVIEWED	PAS
APPROVED	PAS

PROJECT NO.	CONTROL	REV.	FIGURE
1648176	0028	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
25 mm

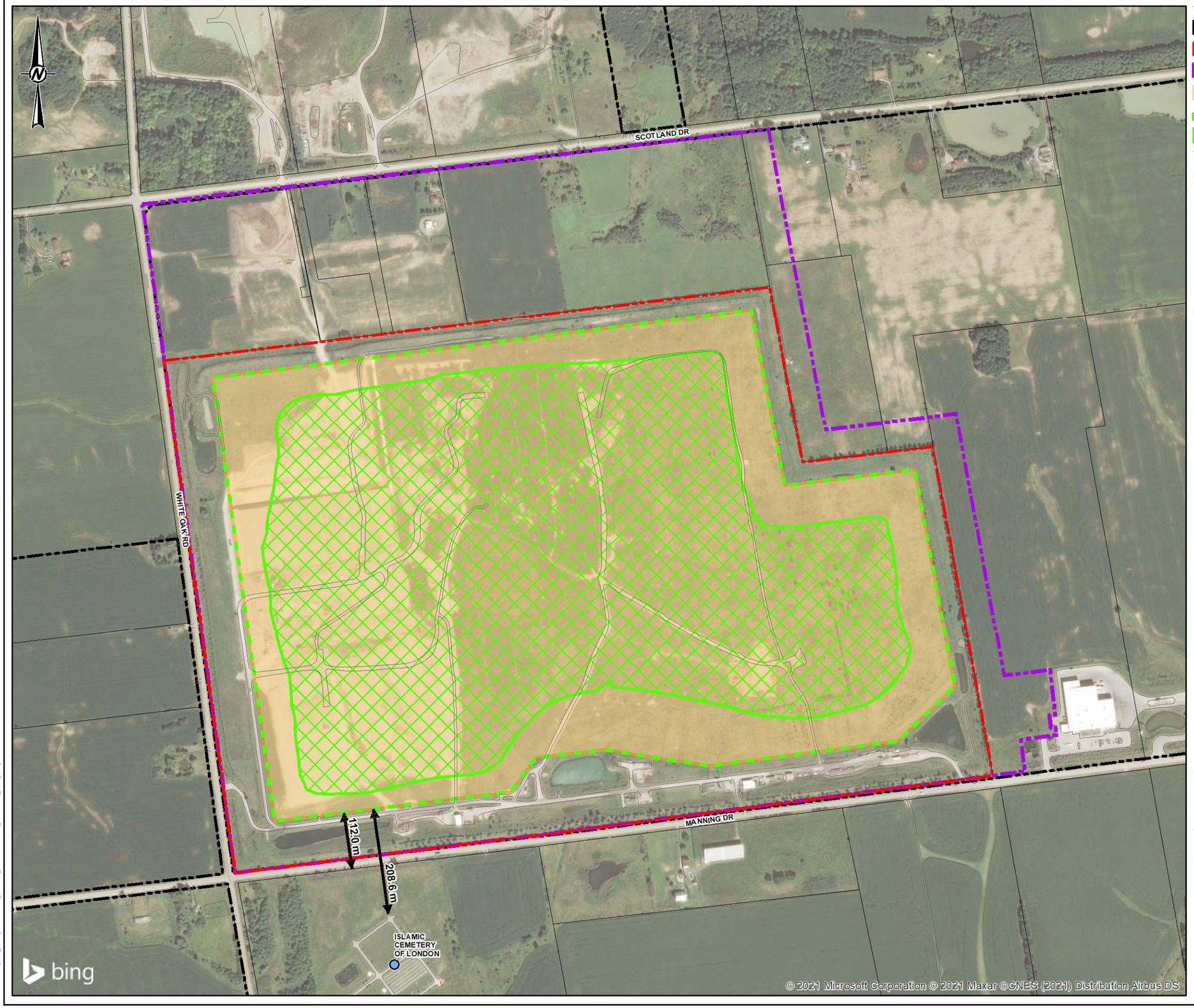
2.0 METHODS

Atmospheric flow (wind) is disrupted by aerodynamic forces in the immediate vicinity of structures or terrain obstacles. The aerodynamic forces evolve from interacting frictional forces and pressure gradients induced by the local obstruction. The surface friction and pressure gradients combine to retard the atmospheric surface layer flow enough to provide a region where the flow is locally distorted, causing an area of stagnation (a cavity) to develop. The flow within the stagnant region is highly turbulent and conceptually perceived as circulating eddies. The US EPA guidelines for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations) (US EPA 1985) recommends that, for the purposes of determining good engineering practice (GEP) stack height, the downwind extend of the highly turbulent region should be taken downwind of the lee side as 5 times of the height or projected width of the obstacle, whichever is less (i.e., 5L). The projected width is the maximum length of a structure that could affect air flow around and over the structure. The GEP technical support document discusses four types of structures where a structure can be a building or a terrain feature: low simple structures, tall simple structures, multi-tired structures, and groups of structures. The 5L distance concept has been widely accepted and applied by air quality communities to determine the downwash effects from a building or a structure (OMECC 2017).

This desktop analysis applied the 5L downwind distance to the Landfill Expansion and compared the distance from the cemetery to the landfill to evaluate the potential for wind effects from the Landfill Expansion.

3.0 RESULTS

As introduced in Section 1.0, the final contours of the Landfill Expansion will have a side-slope gradient of 4H:1V and 20H:1V for the top of the landfill (Figure 1). The Landfill Expansion would behave like the multi-tiered structures discussed in the GEP technical support document. The 5L distances were then calculated for each tier of the structure (i.e., the portions of the Landfill Expansion with different heights) and compared with their respective distances to the cemetery. The L distance was calculated as the lesser of the height of the structure and the projected width of the structure. Due to the large horizontal dimension of the Landfill Expansion, the projected width is larger than the height of the landfill expansion for each portion of the landfill. Therefore, the 5L distance is solely dependent on the height of the Landfill Expansion. Table 1 lists the calculated 5L distances and the distances to the existing cemetery. Considering the potential future expansion of the cemetery, distances from the Landfill Expansion to the cemetery property line to the north (Figure 2) were calculated and compared with the calculated 5L distances.



LEGEND

- CITY OWNED PROPERTY
- EXISTING PROPERTY BOUNDARY
- PROPOSED PROPERTY
- EXISTING APPROVED LIMIT OF WASTE
- PROPOSED LIMIT OF WASTE
- AREA OF NEW WASTE PLACEMENT

REFERENCE(S)

1. DATA PROVIDED BY THE CITY OF LONDON.
2. PROJECTION: TRANSVERSE MERCATOR DATUM: NAD 83
COORDINATE SYSTEM: UTM ZONE 17 VERTICAL DATUM: CGVD28

0 75 150 300

1:7,500 METRES

CLIENT
CORPORATION OF THE CITY OF LONDON

PROJECT
WIND SSESSMENT - W12A LANDFILL EXPANSION

TITLE
DISTANCE TO CEMETERY

CONSULTANT

GOLDER

YYYY-MM-DD	2021-02-22
DESIGNED	----
PREPARED	JEM
REVIEWED	PAS
APPROVED	PAS

PROJECT NO.	CONTROL	REV.	FIGURE
1648176	0028	0	2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: 25mm

Path: N:\Active\Spatial_IM\Citydt\London\Site_W12A\99_PROJ\1648176\40_PROD\0028_Wind_Analysis\1648176-0028-RN-0002.mxd

Table 1: Calculated 5L Distances and Distance to the Cemetery

Elevation of Landfill Portions (masl)	Landfill Height above Grade (m)	Distance to Existing Cemetery (m)	Distance to Cemetery Property Line (m)	5L (m)
276	1	209	112	5
278	3	217	120	15
280	5	225	128	25
282	7	233	136	35
284	9	241	144	45
286	11	249	152	55
288	13	257	160	65
290	15	265	168	75
292	17	273	176	85
294	19	281	184	95
296	21	289	192	105
298	23	297	200	115
300	25	305	208	125
302	27	313	216	135
304	29	321	224	145
306	31	329	232	155
308	33	369	272	165
310	35	409	312	175
312	37	449	352	185
314	39	489	392	195
316	41	529	432	205
318.4	43.5	577	481	217

Notes: masl = meter above sea level; m = meter

The distance of different tier/height level portion of the Landfill Expansion to the cemetery is larger than the respective 5L distance calculated. The cemetery is not located inside the highly turbulent region generated by the Landfill Expansion based on the GEP recommendations.

4.0 CONCLUSION

Based on the desktop analysis of the wind effects from the Landfill Expansion on the cemetery, we concluded that the cemetery is located outside the highly turbulent region where wind effects induced by the Landfill Expansion are likely, according to the recommendations from the GEP technical support document. The Landfill Expansion is unlikely to have significant effects on wind flows at the cemetery.

Golder Associates Ltd.

Zimu Yu, PhD
Air Quality Scientist

Chris Madland, BSc
Associate, Senior Air Quality Scientist,

ZY/CM/sg

https://golderassociates.sharepoint.com/sites/114635/project files/5 technical work/1.0 - technical components/01 - air/2.0 - wind analysis/city of london landfill expansion wind effects evaluation_23feb2021.docx

5.0 REFERENCES

Golder (Golder Associates Ltd.). 2020. Environmental Assessment of the Proposed W12A Landfill Expansion, City of London, Volume 1: 8.0 Description of the Preferred Undertaking.

OMECC (Ontario Ministry of the Environment and Climate Change). 2017. Air dispersion modelling guideline for Ontario [Guideline A-11], Version 3.0.

US EPA (United States Environmental Protection Agency). 1985. Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulations). EPA-450/4-80-023R.

From: Stanford, Jay
Sent: February 17, 2021 7:08 PM
To: [redacted]
Cc: Kittmer, Jane; Abbott, Wesley
Subject: Response to Questions

Dear [redacted]

Please find responses to the comments and questions provided in your note to Councillor Peloza following our Open Houses in November 2020. Councillor Peloza requested that I respond to you on her behalf. I apologize that the response was not provided more quickly. The pandemic has delayed a number of activities at the City of London.

A number of these items were discussed with you and Mr. Morrison at the Open House in November. We are pleased to capture our responses in writing.

1) Mitigation hasn't changed "40 metres"

Response
The document "*Review of Current W12A Landfill Community Enhancement and Mitigative Measures Program (CEMMP)*" was provided with the Notice of Open House 4. This document discusses the current Right of First Refusal Program and potential revisions to the program because of the landfill expansion. One of proposed changes would be to increase the Right of First Refusal payment for homeowners living on Manning Drive west of the landfill's entrance (part of the landfill's new haul route).

The document states:

"There are two residential properties on the new haul route and both properties are currently considered Group 3 homes which receive the lowest annual payment for their "right of first refusal". Consideration could be given to making these Group 1 properties given the increase in traffic due to the landfill."

If this change is approved, your property would receive the maximum Right of First Refusal payment.

2) Road Traffic

Response
Traffic impacts from the landfill expansion on the nearby roads were considered when completing the environmental assessment and documented in the report "*W12A Landfill Expansion Draft Traffic Assessment in Support of the Environmental Assessment"* (Dillon Consulting, 2020).

Concerns relating to traffic movement may include changes to access/egress to the site for trucks and increased truck traffic. No changes to access and egress are anticipated from the expanded site. Further, the anticipated increase in traffic as a result of increasing population and additional communities using the expanded landfill is not forecast to cause any issues with traffic movement along the haul routes.

Traffic impacts from the landfill expansion on the noise levels were considered when completing the environmental assessment and documented in the report "*DRAFT REPORT Noise Existing Conditions and Impact Assessment W12A Landfill Expansion EA, City of London, Ontario."* (Golder Associates, 2020).

Potential noise impacts were evaluated using existing information and predictive modelling. The change in traffic noise levels between the existing landfill and the landfill expansion is projected to be insignificant to noticeable using the provincial scale to quantify this change; this is considered an acceptable change.

You will have an opportunity to review and comment on the above-mentioned reports when the Draft Environmental Assessment Study Report is released for review and comment. This is anticipated to occur in March or April 2021.

3) Cleaning of garbage that flies off trucks going to fast.

Response
Practices are already in place to address this issue. Potential changes to the landfill's off-site litter management program can be considered as part of the review of the existing CEMMP. Any changes can be formalized and added to the revised CEMMP and/or to the Design and Operations report for the landfill expansion. The Design and Operations report is one of several technical reports that will need to be completed in order get approval under the Environmental Protection Act to expand the W12A Landfill.

4) Can't get proper Internet

Response
The City is committed to determining if the existing landfill or the landfill expansion will impact internet and/or cell phone reception of local residences. If it is determined there will be an impact, the City will propose measures such as small communication towers on effected properties (if any) to rectify the situation. This process could potentially be formalized and included in the CEMMP as part of the current review of the program.

5) If one doesn't have "GOOD HEALTH" it's because we don't have a "HEALTHY ENVIRONMENT"

Response
Preliminary air quality, groundwater and surface water modelling completed for the Environmental Assessment indicates that the proposed expansion will be within applicable Ministry of the Environment, Conservation and Parks (MECP) guidelines. These preliminary assessments are documented in the draft reports

- *Air Quality Existing Conditions and Impact Assessment W12A Landfill Expansion EA, City of London, Ontario* (Golder Associates, 2020)
- *Groundwater Impact Assessment W12A Landfill Expansion EA, City of London, Ontario* (Golder Associates, 2020)
- *Stormwater Management Report W12A Landfill Expansion EA, City of London, Ontario* (Golder Associates, 2020)

These reports will be available for review when the Draft Environmental Assessment Study Report is released for review and comment. This is anticipated to occur in March or April 2021.

6) Water Problems – Deep well (Freon) (High Calcium) – just a few

Response
It is assumed that you are referring to your water well (well 31 from the W12A Landfill private well monitoring program).

Water quality issues related to this well are not connected to the operation of the W12A Landfill because of the following:

- Groundwater monitoring wells located around the landfill do not show any off-site migration of contaminants from the landfill.
- Groundwater modelling indicates that there will be no exceedance of applicable groundwater quality guidelines in the future but if they were to occur they would be limited to the Upper Aquifer. Water well 31 is located in the White Oak Aquifer which is below the Upper Aquifer with a thick layer of clay till soils in between.
- Water well is not located downgradient of the W12A Landfill. The well is located to the south west of the landfill while groundwater in the White Oak Aquifer moves in a south east direction.

Monitoring of this well does indicate that it has several elevated aesthetic water quality parameters but the water is safe to drink. Most parameters that are elevated are naturally occurring and have levels consistent with other private water wells taking water from the White Oak Aquifer. Elevated levels of calcium, magnesium, iron, etc. commonly occur in deeper water wells.

The source of the trace concentrations of dichlorodifluoromethane (commonly referred to as freon 12) that have been observed from time to time is unknown and has always been less than 100 µg/L when detected. An analysis completed by Dillon Consulting in 2013 noted that *"Based on the results of the analysis discussed herein, current levels of dichlorodifluoromethane in drinking water are not expected to result in an elevated health risk to residents exposed via the ingestion of drinking water. The short term increase in concentrations noted in the analysis warrants further monitoring. A target level of 500 µg/L is recommended as a trigger for the implementation of risk management measures, rather than the higher notification limit used in California."*

The City will continue to monitor well 31 in the future.

7) Treated like 6th class people!

Response
Noted

8) Effect climate change may or may not have

Response
The document entitled "Considering Climate Change in the Environmental Assessment Process" (MECP, 2019) was used as a guide for incorporating measures in the landfill expansion design that reduce both the potential impact of climate change on the landfill (i.e., climate change adaptation) and its potential impact on climate change (i.e., climate change mitigation). This is documented in Section 10 of the Environmental Assessment Study Report.

As mentioned above, you will have an opportunity to review and comment on the Draft Environmental Assessment Study Report when it is released for review and comment. This is anticipated to occur in March or April 2021.

9) Odours

Response
When approving projects, the Ministry of Environment, Conservation and Parks uses a guideline of 1 odour unit (OU/m³) based on the 99.5 percentile on a ten minute time averaging period to assess the potential for odour nuisance at a potential receptor off the landfill site. 1 OU/m³ is defined as the concentration at which 50% of the population can perceive an odour, therefore 1 OU/m³ is typically used as an indicator for the likelihood of nuisance associated with odour.

Preliminary air quality modelling completed for the Environmental Assessment indicates that the proposed expansion will be within the MECP guideline. The preliminary assessment is documented in the draft report "*Air Quality Existing Conditions and Impact Assessment W12A Landfill Expansion EA, City of London, Ontario"* (Golder Associates, 2020) and will be available for review when the Draft Environmental Assessment Study Report is released for review and comment. This is anticipated to occur in March or April 2021.

Additional air quality modelling and monitoring will be undertaken as we seek the more technical Environmental Protection Act approval for the landfill expansion and during initial operations of the landfill expansion. This will include:

- Verify that the odour emission rates used in the odour assessment were reasonable, but conservative. This will include:
    - One-time landfill gas sampling early in the expansion to confirm emission rates from the site of indicator compounds
    - Sampling analysis to include odourous compounds, Vinyl Chloride and Hydrogen Sulphide
- Review and update the odour management plan and complaints response protocol

In reality, the goal of the MECP and the City is to reduce and minimize off-site odours from landfill site operations as much as possible This is why the design of the landfill expansion will incorporate a number of measures to reduce odours such as:

- Installation of both horizontal collector pipes during ongoing landfilling operations and vertical wells during landfill cell closure to increase the capture of landfill gas (which contains the compounds that cause odour)
- Approximately double the size of the existing gas flaring station
- Minimize the size of the active tipping face as much as practical
- Progressively place final cover and expand the gas collection system on the landfill

We started using both horizontal collector pipes and vertical wells to capture landfill gas in the most recent landfill gas collection system expansion this past spring. This has resulted in a significant increase in the amount of landfill gas we are capturing from this area of the landfill. We believe this is one of the reasons the number of odour complaints received in 2020 were lower than in previous years.

10)Pests (Vulchers) (sic)

Response

Potential changes to the landfill's existing pest management systems can be considered as part of the review of the existing CEMMP. Any changes can be formalized and added to the revised CEMMP and/or to the Design and Operations report for the landfill expansion. The Design and Operations report is one of several technical reports that will need to be completed in order get approval under the Environmental Protection Act to expand the W12A Landfill.

11) City should be ashamed of how the citizens (taxpayers) who live near the landfill are treated. Most where (sic) there long before the Landfill

Response
Noted

Regards,

Jay Stanford, M.A., M.P.A.
Director, Environment, Fleet & Solid Waste
Environmental & Engineering Services
City of London

300 Dufferin Ave, P.O. Box 5035 London, Ontario N6A 4L9
P: 519.661.CITY (2489) x 5411 | Cell: 519.851.5423
jstanfor@london.ca | www.london.ca

From: Peloza, Elizabeth
Sent: Thursday, November 19, 2020 4:26 PM
To: Stanford, Jay <JSTANFOR@London.ca>
Subject: Fwd: Scanned resident letter/feedback

Part of the feedback from last nights meeting, hand delivered by a resident with permission to share

Thank you
Elizabeth
Get Outlook for iOS

From: Rafuna, Liridona <lrafuna@london.ca>
Sent: Thursday, November 19, 2020 12:49:52 PM
To: Peloza, Elizabeth <epeloza@london.ca>
Subject: Scanned resident letter/feedback

Hi Elizabeth:

Please see attached scanned letter/feedback.

Thank you,

Liridona Rafuna
Administrative Assistant II
Elected Officials, Councillors' Office
City of London

P.O. Box 5035 | London, ON, N6A 4L9
P: 519.661.CITY (2489) x 4939 | Fax: 519-661-5933
lrafuna@london.ca | www.london.ca

As part of our ongoing efforts to stop the spread of COVID-19, the City of London has made changes to many City services. Visit our website for the latest information about City services and COVID-19.

APPENDIX H

Indigenous Community Events and Involvement

H.01 Emails and Letters
H.02 Meeting Summaries
H.03 Email Update (April 23, 2019)
H.04 Dragun Corporation peer review letter of Hydrogeological Background Study (July 8, 2019)
H.05 Facility Tour and Presentation Material
H.06 Dragun Corporation Peer Review Letter of Hydrogeological Background Study (August 13, 2019)
H.07 Email Notifications of August 2019 Workshop
H.08 Workshop Presentation Material (August 26, 2019)
H.09 City of London Comment Response to Dragun Peer Review Letter
H.10 Email Notifications of August 2020 Workshop
H.11 Workshop Presentation Material (August 27, 2020)
H.12 Workshop Meeting Summary (August 27, 2020)

H.01 Emails and Letters

Abbott, Wesley

From: Alikakos, Mary
Sent: Thursday, December 13, 2018 3:30 PM
To: cjames@aamjiwnaang.on.ca
Cc: Stanford, Jay; Abbott, Wesley; sjohnston@aamjiwnaang.on.ca
Subject: Proposed W12A landfill - expansion

Aanii Christine,

Hope this email finds you well☺

I am writing to enquire if we can schedule a meeting in January 2019? Wes Abbott, Project Manager and Jay Stanford, Director of Environmental Fleet and Solid Waste would likely be in attendance and I'd also be happy to attend.

I look forward to hearing from you and wish you and your family a well-deserved holiday and a Happy New Year!

Baa maa pii,
Mary

Mary Alikakos
Project Manager, Environmental Assessment
Wastewater and Drainage Engineering
City of London

300 Dufferin Ave. P.O. Box 5035
P: 519.661.CITY(2489) x 4703 | Cell: 226-268-9573 | Fax: 519.661.2355
malikakos@london.ca | www.london.ca

Anishnaabekwe from Manitoulin Island, happy to be working and living on the traditional territory of the Anishnaabeg, Haudenosaunee and Huron, and honouring the communities of the Chippewas of the Thames First Nation, the Oneida Nation of the Thames and the Munsee-Delaware Nation.

Abbott, Wesley

From: Alikakos, Mary
Sent: Thursday, December 13, 2018 3:29 PM
To: consultation@cottfn.com
Cc: Stanford, Jay; Abbott, Wesley
Subject: Proposed W12A landfill - expansion

Aanii my favourite Treaty, Lands & Environment folks!

Just a quick email to enquire if you'd like a follow up meeting in January or February 2019 on the abovementioned project? I had a quick look at the last meeting minutes and it appears that there may be an item or two we could follow up on.

Please let me know when you get a chance and chi-miigwech☺

Baa maa pii,
Mary

Mary Alikakos
Project Manager, Environmental Assessment
Wastewater and Drainage Engineering
City of London

300 Dufferin Ave. P.O. Box 5035
P: 519.661.CITY(2489) x 4703 | Cell: 226-268-9573 | Fax: 519.661.2355
malikakos@london.ca | www.london.ca

Anishnaabekwe from Manitoulin Island, happy to be working and living on the traditional territory of the Anishnaabeg, Haudenosaunee and Huron, and honouring the communities of the Chippewas of the Thames First Nation, the Oneida Nation of the Thames and the Munsee-Delaware Nation.

Abbott, Wesley

From: Alikakos, Mary
Sent: Thursday, December 13, 2018 3:28 PM
To: chief@munsee.ca
Cc: Stanford, Jay; Abbott, Wesley; carol@munsee.ca
Subject: Proposed W12A landfill - expansion

Hello Chief,

Hope this email finds you well!

I've recently joined the City of London team and am writing to enquire if you'd be willing to meet in January 2019 to discuss Munsee-Delaware's involvement in the abovementioned project. Wes Abbott, Project Manager and Jay Stanford, Director of Environmental Fleet and Solid Waste would likely be in attendance and I'd also be happy to participate. I'm willing to work with Carol to find a suitable time, if that would better suit your schedule.

We look forward to working with you and wish you and your family a well-deserved holiday and a Happy New Year!

Mary

Mary Alikakos
Project Manager, Environmental Assessment
Wastewater and Drainage Engineering
City of London

300 Dufferin Ave. P.O. Box 5035
P: 519.661.CITY(2489) x 4703 | Cell: 226-268-9573 | Fax: 519.661.2355
malikakos@london.ca | www.london.ca

Anishnaabekwe from Manitoulin Island, happy to be working and living on the traditional territory of the Anishnaabeg, Haudenosaunee and Huron, and honouring the communities of the Chippewas of the Thames First Nation, the Oneida Nation of the Thames and the Munsee-Delaware Nation.

Abbott, Wesley

From: Alikakos, Mary
Sent: Thursday, December 13, 2018 3:28 PM
To: jessica.hill@oneida.on.ca
Cc: Abbott, Wesley; Stanford, Jay; cherilyn.hill@oneida.on.ca; brandon.doxtator@outlook.com
Subject: Proposed W12A Landfill - expansion

Shekoli Chief,

Hope this email finds you healthy and well!

I am writing to enquire if you would be interested in scheduling a meeting during the month of January 2019 to discuss Oneida Nation of the Thames' involvement in the abovementioned project. Wes Abbott, Project Manager and Jay Stanford, Director of Environmental Fleet and Solid Waste would likely be in attendance and I'd also be happy to participate. I'm willing to work with Cherilyn or Brandon to find a suitable time, if that would better suit your schedule.

I hope to hear from you and if I don't, I wish you and your family a well-deserved holiday and a Happy New Year!

Mary

Mary Alikakos
Project Manager, Environmental Assessment
Wastewater and Drainage Engineering
City of London

300 Dufferin Ave. P.O. Box 5035
P: 519.661.CITY(2489) x 4703 | Cell: 226-268-9573 | Fax: 519.661.2355
malikakos@london.ca | www.london.ca

Anishnaabekwe from Manitoulin Island, happy to be working and living on the traditional territory of the Anishnaabeg, Haudenosaunee and Huron, and honouring the communities of the Chippewas of the Thames First Nation, the Oneida Nation of the Thames and the Munsee-Delaware Nation.

Abbott, Wesley

From: Alikakos, Mary
Sent: Friday, December 14, 2018 8:10 AM
To: dean.jacobs@wifn.org
Cc: Stanford, Jay; Abbott, Wesley
Subject: Proposed W12A landfill - expansion

Aanii Dean,

Hope this email finds you well!

I've recently joined the City of London team and am writing to enquire if you'd be willing to meet in January 2019 to discuss WIFN's involvement in the abovementioned project. Wes Abbott, Project Manager and Jay Stanford, Director of Environmental Fleet and Solid Waste would likely be in attendance and I'd also be happy to participate.

We look forward to working with you and wish you and your family a well-deserved holiday and a Happy New Year!

Mary

Mary Alikakos
Project Manager, Environmental Assessment
Wastewater and Drainage Engineering
City of London

300 Dufferin Ave. P.O. Box 5035
P: 519.661.CITY(2489) x 4703 | Cell: 226-268-9573 | Fax: 519.661.2355
malikakos@london.ca | www.london.ca

Anishnaabekwe from Manitoulin Island, happy to be working and living on the traditional territory of the Anishnaabeg, Haudenosaunee and Huron, and honouring the communities of the Chippewas of the Thames First Nation, the Oneida Nation of the Thames and the Munsee-Delaware Nation.

H.02 Meeting Summaries

Meeting #2 - Notes
Environmental Assessment for the Proposed Expansion of the W12A Landfill
COTTFN and City of London

Meeting Details

Date: January 15, 2019

Location: COTTFN Administration Office

COTTFN: Rochelle Smith (Events & Promotions Coordinator), Emma Young (Senior Environmental Officer), Fallon Burch (Consultation Coordinator), Brandon Graham (Land Claims Research Assistant)

City of London: Mary Alikakos (Project Manager – Wastewater and Drainage Engineering), Wesley Abbott (Project Manager – Solid Waste Management)

Discussion Topics

1. Archeological

COTTFN advised they will be confirming how and where collected artifacts are being stored. This is for all Golders projects and not just the Proposed W12A Landfill Expansion EA.

The City noted that the Oneida Nation of the Thames had expressed interest in having a monitor at the project site during all the archeological field work and City wanted to discuss scheduling of monitors. COTTFN noted they would want a monitor *at all times* at the project site during all the archeological field work as they are a signatory to the McKee Treaty.

The City noted that they may want to have the monitoring agreement for this project currently between Golders and COTTFN to be replaced with an agreement between the City and COFFTN. The City would make a decision by February to allow time for the agreement to be signed before field work would begin.

2. Documents

COTTFN requested the City forward electronic copies of the Terms of Reference (including supporting documents) and only send electronic copies of documents in the future.

3. Review of Commitments from Meeting #1 (September 2017)

Commitment	Status
The City (Environmental & Engineering Services - EES) is to provide a link to the annual report for the W12A Landfill	Link was previously provided in an email (http://www.london.ca/residents/Garbage-Recycling/Garbage/Pages/W12A-Landfill-Site.aspx).
The City (EES) will follow-up with Golder Associates about using COTTFN staff to observe field work required for the archaeology study. The field work is likely to take place in fall 2018	COTTFN had monitors during archeology field studies in 2018. Additional field work will be undertaken in 2019.
The City (EES) will organize a tour of various City facilities including the MRF, W12A Landfill and possibly some other City locations such as Greenway Wastewater Treatment Plant, etc. for COTTFN staff and members of the Antler River Guardians of the Four Directions. The tour is expected to take place in July 2018.	No tour took place because of time constraints for the Antler River Guardians of the Four Directions. A tour will be organized in 2019 if time permits.
The City (EES) should investigate using native trees and grasses when doing plantings at the landfill. Rochelle Smith can provide further guidance on this matter including project examples if more details are necessary.	Will be undertaken during design of the landfill expansion (Environmental Protection Act approval).
The City (EES) will make sure that staff in Community and Economic Innovation (Government and External Relations) are aware of the training and awareness opportunities provided by COTTFN for Treaties and Culture.	Staff in Community and Economic Innovation (Government and External Relations) were advised of the training and awareness opportunities provided by COTTFN for Treaties and Culture.

4. Training

COTTFN staff would like to see senior managers at the City take awareness training on Treaties and culture. They would prefer this training be done in the COTTFN community. COTTFN staff are also amenable to attending scheduled treaty/cultural awareness sessions at City Hall (or other suitable locations for city staff).

City staff requested that COFFTN staff also consider doing a lunch and learn at City hall for other staff.

5. CLC Membership

The City has two public committees with respect to the W12A Landfill. The W12A Landfill Public Liaison Committee that deals with landfill operations and the local community. Waste Management Community Liaison Committee which is used as a "sounding board" for the City's long term Residual Waste Disposal Strategy (including the Proposed W12A Landfill Expansion EA) and the City's long Waste Diversion Strategy.

COTTFN will consider if they want to become a member of the Waste Management Community Liaison Committee. The Terms of Reference for the Committee will need to be amended to expand membership to include First Nation communities whose traditional territory overlaps the physical location of the W12A Landfill if COTTFN decides they want to join. The meetings are open to the public if COTTFN would like to observe the meeting but not join.

6. COTTFN Wiindmaagewin

COTTFN staff have expressed frustration regarding lack of awareness of Wiindmaagewin among City staff. Due to the large number of MCEAs/EAs across divisions within City Hall, one option could be organizing workshops for COTTFN staff to present.

Meeting #1 - Notes
Environmental Assessment for the Proposed Expansion of the W12A Landfill
Oneida Nation of the Thames and City of London

Meeting Details

Date: January 28, 2019

Location: Oneida Nation of the Thames Administration Office

COTTFN: Jessica Hill (Chief), Jason Cornelius (Councillor), Grant Doxtator (Councillor), Brandon Doxtator (Oneida Environment)

City of London: Mary Alikakos (Project Manager – Wastewater and Drainage Engineering), Wesley Abbott (Project Manager – Solid Waste Management)

Discussion Topics

1. General

Information about the W12A Landfill and the Environmental Assessment process was provided. Some of the discussion topics included the potential for fires in the landfill, treatment of leachate at the Greenway Wastewater Treatment Facility (including the potential for increase bypasses if the quantity of leachate is increases), landfill gas collection and odours, management of surface water and protection of groundwater.

2. Tour

The City will organize a tour of the Greenway Wastewater Treatment Facility, Manning Drive Regional Material Recovery Facility and the W12A Landfill site for members of the Oneida Nation of the Thames council (and other community members) who wish to attend.

3. Documents

The City will check on the status of the report for the Stage 3 Archeological study and report back when the Oneida Nation of the Thames might expect a copy to comment on.

The City will provide will provide Oneida Nation of the Thames with:

- hardcopy of the Terms of Reference (provided at meeting),
- hard and electronic copies of the 2017 annual report for the W12A Landfill,
- hard and electronic copies of the City's 60% Waste Diversion Action Plan (includes a list of 21 actions to achieve 60% diversion of residential waste), and

- hard and electronic copies of the Amended Terms of Reference after it has been submitted to the Ministry of Environment, Conservation and Parks.

4. Archeological Monitors

The City noted that archeological studies for part of the proposed expansion area was completed in 2018 and COTTFN had monitors on-site. Archeological studies for the remaining area will be completed in 2019.

The City is looking at options for monitors (e.g., scheduling monitors) for 2019 and will be in touch with Oneida Nation of the Thames to discuss the option the City is considering before finalizing any decision, as Chief Hill expressed the desire for a monitor from Oneida Nation of the Thames to participate.

5. CLC Membership

The City has two public committees with respect to the W12A Landfill. The W12A Landfill Public Liaison Committee that deals with landfill operations and the local community. Waste Management Community Liaison Committee which is used as a "sounding board" for the City's long term Residual Waste Disposal Strategy (including the Proposed W12A Landfill Expansion EA) and the City's long Waste Diversion Strategy.

The Oneida Nation of the Thames will consider if they want to become a member of the Waste Management Community Liaison Committee. The Terms of Reference for the Committee will need to be amended to expand membership to include First Nation communities whose traditional territory overlaps the physical location of the W12A Landfill if Oneida Nation of the Thames decides they want to join. The meetings are open to the public if Oneida Nation of the Thames would like to observe the meeting but not join.

6. Community Benefits Agreement

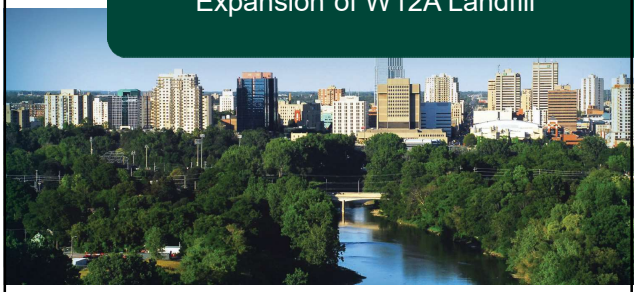
The issue of having a community benefits agreement similar to the benefits agreement the community has with the City of Toronto and the Greenlane Landfill was raised. It was noted that Oneida Nation of the Thames would have to discuss this issue with senior management at the City.

7. Additional items

Oneida Nation of the Thames would like an update on the status of the Vaughn EA as well as potential work that may be occurring within the Dingman Creek Subwatershed.

London CANADA

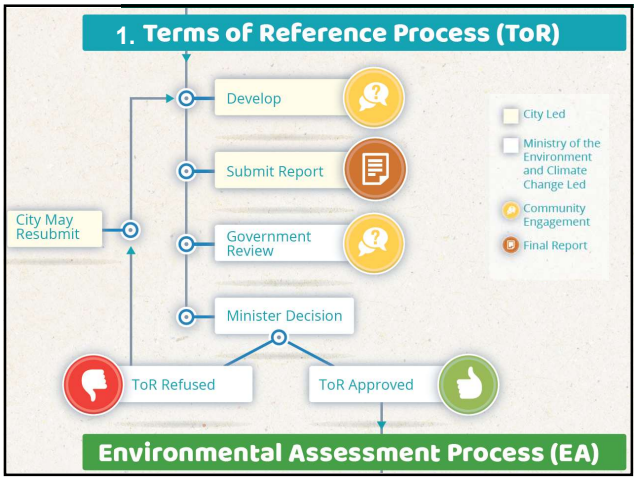
Terms of Reference (ToR) Overview
Expansion of W12A Landfill



Aamjiwnaang First Nation

February 1, 2019

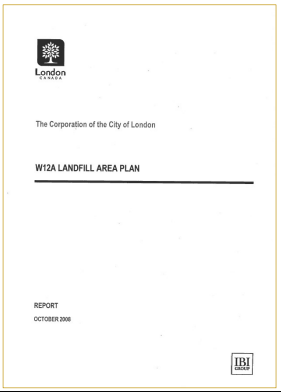
1. Terms of Reference Process (ToR)



London CANADA

ToR Overview - Disposal Method

Expansion of the W12A Landfill is the most appropriate disposal option based on previous waste plan studies (2008)



London

The Corporation of the City of London

W12A LANDFILL AREA PLAN

REPORT

OCTOBER 2008

IBI GROUP

London CANADA

ToR Overview - Disposal Method

Location	Area (ha)
W12A	142
MRF	6
Remainder	140
Total	288

Key Parameters - Diversion

Key Parameters - Planning Period

Plan for additional 25 years
(2025 – 2050)

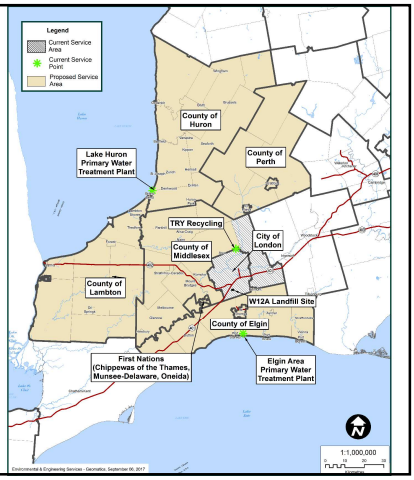
- Maximum supported by MECP staff
- The London Plan in effect until 2035
- Consistent with *Waste-Free Ontario Act*
- Supported by residents

Key Parameters - Limit on Annual Tonnage

- Current limit = 650,000 tonne/year
- **Proposed limit = 500,000 tonne/year**

Consideration	Average (Tonnes)	Peak (Tonnes)
Existing Service Area	370,000	380,000
Expanded Service Area	24,000	40,000
Contingency	-	80,000
Total	**-**	**500,000**

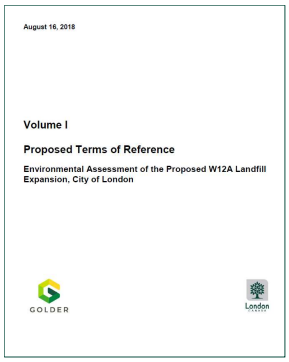
Key Parameters - Regional Service Area



Future EA Studies

Category	Proposed Environmental Components	
	Environmental Component	Environmental Sub-components
Environmental	Atmosphere	• Air quality (including dust, odour and greenhouse gases) • Noise
	Biology	• Aquatic ecosystems • Terrestrial ecosystems
	Geology & Hydrogeology	• Groundwater quality
	Surface Water	• Surface water quality • Surface water quantity
Social	Agriculture	• Agriculture
	Archaeology	• Archaeology
	Culture	• Cultural heritage landscapes • Cultural heritage resources (including built heritage)
	Land Use	• Current and planned future land uses
	Socio-economic	• Local economy • Residents and community
	Visual	• Visual
Technical	Design and Operations	• Technical Considerations • Financial Considerations
	Transportation	• Traffic

Questions – we are here to help


August 16, 2018

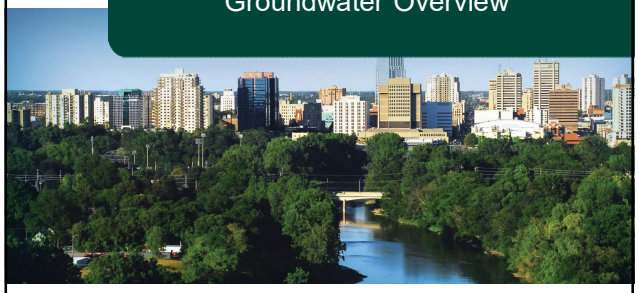
Volume I

Proposed Terms of Reference

Environmental Assessment of the Proposed W12A Landfill Expansion, City of London

GOLDER

W12A Landfill Groundwater Overview



Aamjiwnaang First Nation

February 1, 2019

Overview

Data Sources

- **monitoring wells**
- **water wells**
- **water levels**
- **Western research**
  - **lab testing**
  - **field testing**
- **pump tests**
- **existing geological reports**

1. Soils
2. Groundwater flow direction
3. Contaminant Transport

Key Words to be Defined

- **Leachate**
- **Critical Contaminant**
- **Biodegradation**
- **Adsorption**
- **Aquifer**
- **Aquitard**
- **Trigger Mechanism**

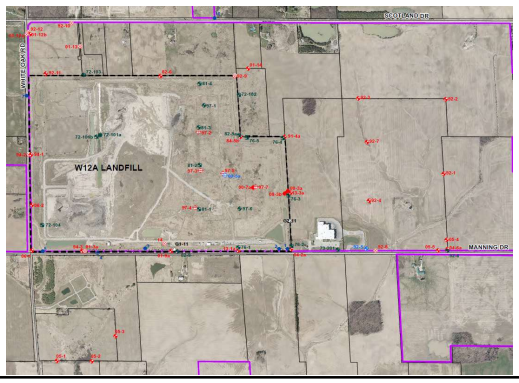
Leachate (untreated or not having gone through natural attenuation)

Compound	Detected above Drinking Water Standards
General Chemistry	✓
Metals	✓
Volatile Organics	✓
Pesticides and Herbicides	×
Dioxins & Furans	×
PCBs	×
Other (e.g., PAHs)	×

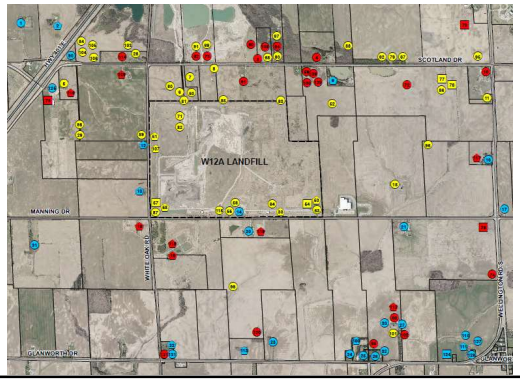
Critical Contaminant Chlorides

Consideration	Comment
Leachate Concentration	High (1,500 to 2,000 mg/l)
Groundwater Concentration	Low (<20 mg/l)
Biodegradation	Half-life = Infinity
Adsorption	0

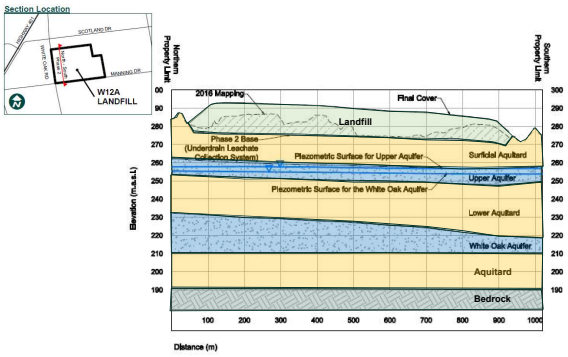
Groundwater Monitoring Wells



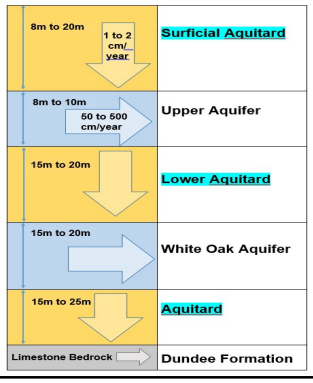
Water Wells



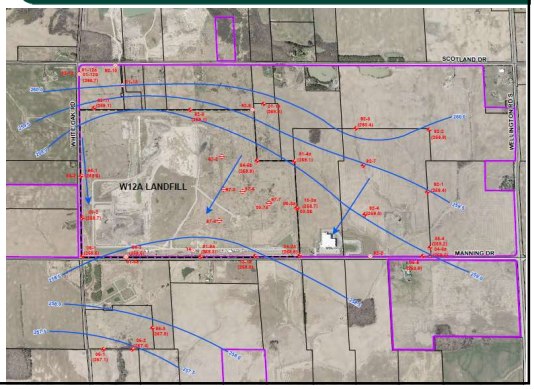
North-South Cross Section



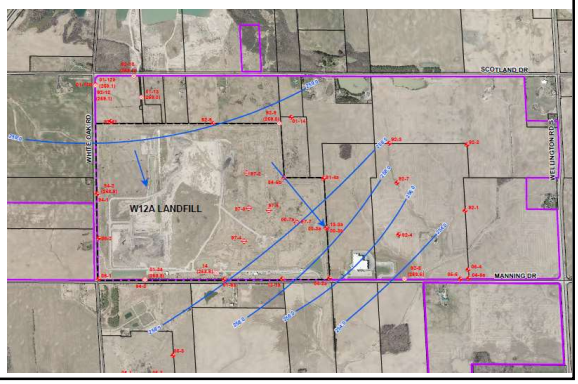
Typical Cross-Section



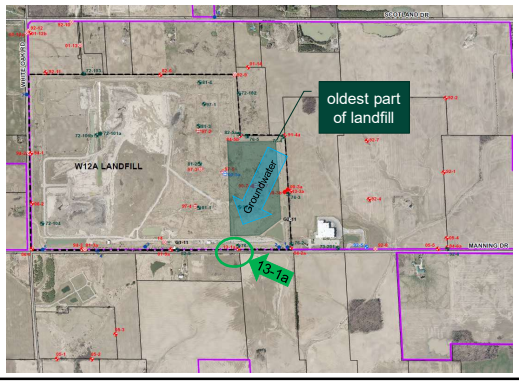
Groundwater Flow Upper Aquifer



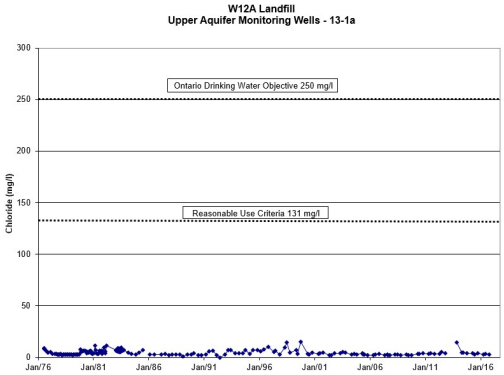
Groundwater Flow White Oak (Lower) Aquifer



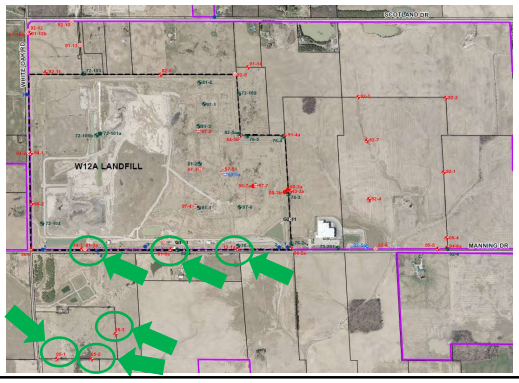
Monitoring Well 13-1a Upper Aquifer



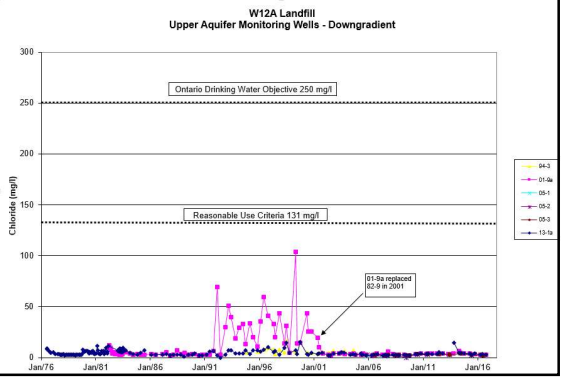
Monitoring Well 13-1a Upper Aquifer



Downgradient Wells Upper Aquifer



Downgradient Wells Upper Aquifer



Trigger Mechanism

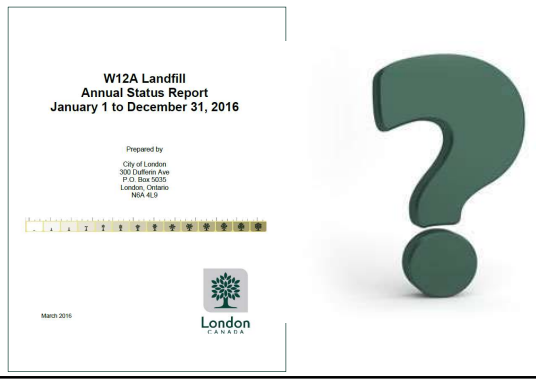
Level One (<33 mg/l)
- Current Monitoring Program
- Annual Review

Level Two (>33 mg/l)
- Increase in Monitoring

Level Three (>66 mg/l)
- Investigations
- Detailed design of control measures

Level Four (>131 mg/l)
- Implement control measures

Questions – we are here to help



Meeting #1 - Notes
Environmental Assessment (EA) for the Proposed Expansion of the W12A Landfill
Aamjiwnaang First Nation and City of London

Meeting Details

Date: February 1, 2019

Location: Material Recovery Facility at 3438 Manning Drive, London, ON

Aamjiwnaang First Nation (AFN): Sharilyn Johnston (Environment Coordinator), Courtney Jackson (Environment Worker), Janelle Nahmabin (Councillor), Danalynn Williams (Councillor), Cliff Lawton (Dragun Corporation), Chris Pare (Dragun Corporation), Khaled Chekiri (Dragun Corporation)

City of London (the City): Jay Stanford (Director – Environment, Fleet & Solid Waste) Wesley Abbott (Project Manager – Solid Waste Management), John Whitworth (Manager of Operations), Mary Alikakos (Project Manager – Wastewater and Drainage Engineering)

Discussion Topics

1. General

Guests from AFN shared the importance of water in their community and responsibilities' held by women as indicated by the presence of meeting participants. AFN expressed appreciation for the City to continually inform the community of new & ongoing projects.

An overview of the key features of the proposed landfill expansion was provided (presentation is attached). These features were 60% residential waste diversion target, expand for 25 years, reduction in approved rate of fill from 650,000 tonnes per year to 500,000 tonnes per year and expansion of the service area to neighbouring communities.

General discussion surrounding accountability, transportation/location of solid waste in and out of the city, growth of the city, and overall landfill details occurred.

2. Hydrogeology

An overview of the hydrogeology of the W12A Landfill was provided (presentation is attached). Clay layers, aquitard fractures, location of groundwater monitoring wells & frequency of monitoring, presence of eskers, historical dewatering, upward trend in chloride in White Oaks aquifer was discussed.

3. Activity Surrounding W12A

Residential well locations, agricultural activity (irrigation or livestock wells) and quarry operations were also discussed. Main topic of concern was how the impacts from non-landfill activities would be included in future modelling.

4. Documents

The City provide provided Dragun Corporation (on behalf of AFN) with the following documents:

- Terms of Reference;
- 2017 annual report for the W12A Landfill (electronic copy of appendices);
- City of London Landfill Investigation (by Geotechnical Research Centre, University of Western Ontario
- Appendix J from the W12A Landfill Design and Operations Report (Groundwater Impact Assessment for Phase 2 of the W12A Landfill)

The City committed to forward a report on the changing water quality in the White Oaks Aquifer.

5. Requests

Through a capacity funding request, AFN requested a “real time” peer review of the existing hydrogeological conditions and proposed EA work plan for the hydrogeological assessment in order to share the information with the community in a timely fashion. An additional aspect of the request was made to include the surrounding First Nation communities. Results of review could be shared via workshop style to surrounding First Nation communities who wish to receive the information.