

## **Appendix F-3**

### **Notices and Letters**

Utilities Kingston is undertaking a study to investigate the feasibility of a combined biosolids and food waste processing facility at Knox Farm, a municipally-owned property located off Perth Road just north of Highway 401 and Division St. in the City of Kingston (see proposed project location). The intent is that the facility will process wastes from the City's wastewater treatment plants and "Green Bin" program to produce a renewable natural gas (biogas) and other beneficial resources.

This project is in the early stages, and builds on the **Master Plan for Enhanced Biosolids Management and Biogas Utilization**, project completed in 2020.

### Proposed Project Location Map



## Drop in to learn more!

Attendees will view and discuss the results of preliminary technical assessments that have been completed, to understand the suitability of developing the proposed facility at Knox Farm, before the project proceeds to its next phase through the Municipal Class Environmental Assessment process.

### Public Drop In Session:

Tuesday, March 28<sup>th</sup>, 2023

Drop in from 4 p.m to 8 p.m

Utilities Kingston (main office)

85 Lappan's Lane, Kingston, ON

Use front entrance. Parking is available in the front and back of the building.

Learn more at the project website:

[www.utilitieskingston.com/Projects/Detail/  
RegionalBiosolidsBiogasFacility](http://www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility)

If you have questions, please contact:

**Lauren Scanlan**

M.A.Sc., P.Eng. – Utilities Engineer, Utilities Kingston

email: [lscanlan@utilitieskingston.com](mailto:lscanlan@utilitieskingston.com)

phone (613) 546-1181, ext. 2462

Information will be collected in accordance with the **Freedom of Information and Protection of Privacy Act**. With the exception of personal information, all comments will become part of the public record. This notice was first issued on March 14, 2023.

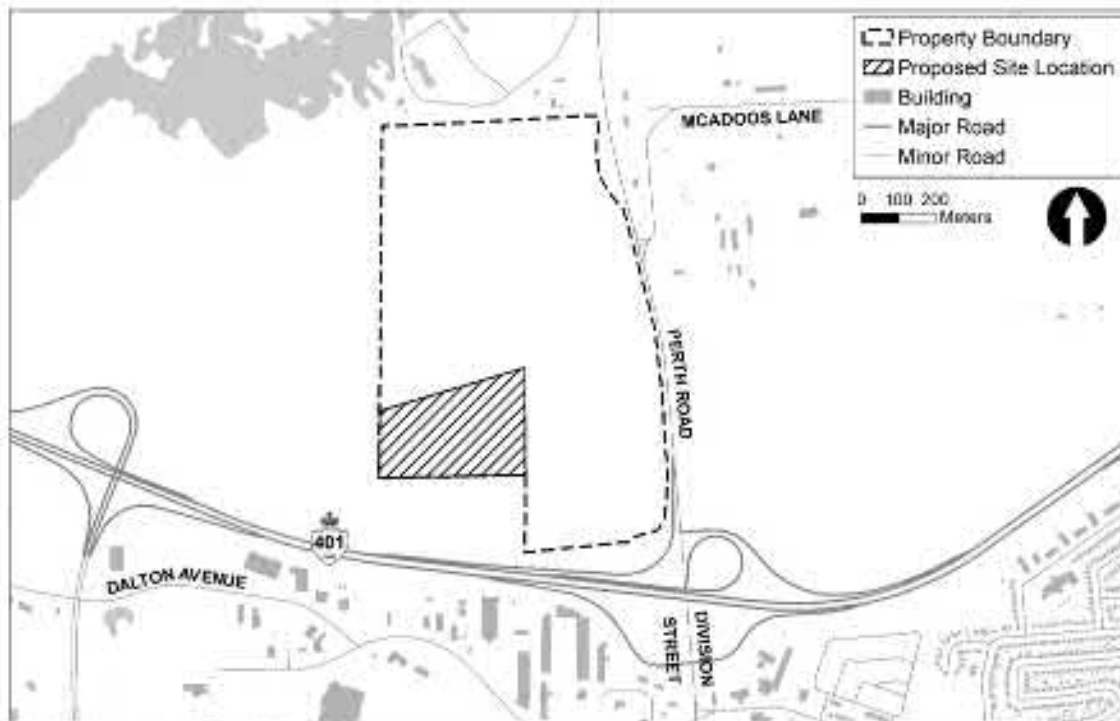
Vous pouvez vous procurer des renseignements en français en appelant Sydney Tasfi, au 1 888 345-5668 poste 1005.

## Notice of Commencement

Schedule 'C' Municipal Class Environmental Assessment for:  
**Kingston Regional Biosolids & Biogas Facility**

### The Project

Utilities Kingston is undertaking a Municipal Class Environmental Assessment (Class EA) for a combined biosolids and food waste processing facility at Knox Farm, a municipally-owned property located off of Perth Road just northwest of the Highway 401 and Division Street interchange in the City of Kingston (refer to proposed project location map). The intent is that the facility will process wastes from the City's wastewater treatment plants and "Green Bin" program to produce a renewable natural gas (biogas) and other beneficial resources.



### The Process

This notice signals the commencement of the Municipal Class EA, a study which will define the problem, identify and evaluate alternative solutions and design concepts on the natural, socio-cultural, technical and financial environments, and develop a preferred design for the combined biosolids and food waste processing facility. This project builds on the **Master Plan for Enhanced Biosolids Management and Biogas Utilization** project completed in 2020 and the Knox Farm Suitability Assessment completed in April 2023.



The study is being carried out in accordance with the planning and design process for Schedule 'C' projects as outlined in the Municipal Class EA (October 2000, as amended in 2007, 2011, 2015, and 2023), which is approved under the *Ontario Environmental Assessment Act*. Public, review agency, and Indigenous communities' consultation is a key element of the Municipal Class EA process and input will be sought throughout the project. The public was engaged in March 2023 to review the findings of the suitability of Knox Farm for the proposed facility. It is anticipated that one Public Information Centre (PIC) will be conducted to invite public input during the Municipal Class EA process.

### Comments Invited

If you have any questions or comments regarding the project, or wish to be added to or removed from the study mailing list, please contact either of the following project team members:

**Lauren Scanlan**, M.A.Sc., P.Eng.  
Utilities Engineer, Utilities Kingston  
[lscanlan@utilitieskingston.com](mailto:lscanlan@utilitieskingston.com)  
(613) 546-1181, ext. 2462

**Betsy Varghese**, P.Eng.  
Partner, Dillon Consulting Limited  
[UKBiogasFacility@Dillon.ca](mailto:UKBiogasFacility@Dillon.ca)  
(416) 229-4647, ext. 2326

To learn more about the Project please visit the project website:

[www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility](http://www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility)

Information will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

**This notice was first issued on September 19, 2023.**

Vous pouvez vous procurer des renseignements en français en appelant Sydney Tasfi, au 1-888-345-5668 poste 1005.





Anna Brown, spokeswoman for members of the 30-day picket line of the Screen Actors Guild in a picket line outside of Paramount Studios in Los Angeles, Calif., July 27. The union representing performers is pushing for a resolution of a contractual dispute with the studio.

## Writers' union reaches tentative deal with studios

Agreement could end one historic strike, while actors remain on the picket line

ARNOP BAKER

LOS ANGELES — The screenwriting community's historic tented picket line outside of Paramount Studios in Los Angeles, Calif., July 27, has come to an end. The Screen Actors Guild (SAG) and the Writers Guild of America (WGA) have reached a tentative deal with the studios.

The deal is expected to end the 30-day strike by the SAG, which is the last of the two unions to go on strike. The WGA's 14-week strike is still ongoing, but the deal is expected to end the SAG's strike.

The agreement, which is expected to be signed by the guild's board and the studios' executives, is expected to end the strike by the SAG.

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### London police raid for hacking

London police have raided a number of homes and offices in the city in a search for evidence of a major cyber-attack. The raid is part of an investigation into a series of attacks on government and financial institutions. The police are looking for evidence of a major cyber-attack that has caused significant damage to the UK's infrastructure. The raid is part of an investigation into a series of attacks on government and financial institutions. The police are looking for evidence of a major cyber-attack that has caused significant damage to the UK's infrastructure.

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### Matta dies in hospital

Senator Matt Blunt has died in a hospital after a long illness. He was 78 years old. Blunt served in the US House of Representatives from 2005 to 2011. He was a member of the Republican Party. He was a member of the Senate from 2011 to 2017. He was a member of the Senate from 2011 to 2017. He was a member of the Senate from 2011 to 2017.

## City of Kingston Notice of Commencement Schedule 'C' Municipal Class Environmental Assessment for Kingston Regional Biosolids & Biogas Facility

**The Project**  
The City of Kingston is undertaking a Municipal Class Environmental Assessment (Class EA) for a combined biosolids and food waste processing facility at Ross Farm, a municipally-owned property located off of The Kings Road just northwest of the Highway 401 and Division Street interchange in the City of Kingston (see proposed project location map). The intent is that this facility will process wastes from the City's wastewater treatment plants and "Green Bin" program to produce a renewable natural gas ( RNG ) and other beneficial resources.



**The Process**  
This notice signals the commencement of the Municipal Class EA, a study which will define the problem, identify and evaluate alternative solutions and design concepts on the regional, local-national, technical and financial environments, and develop a preferred design for the combined biosolids and food waste processing facility. This project builds on the Master Plan for Integrated Biosolids Management and Biogas Utilization project completed in 2003 and the Ross Farm Sustainability Assessment completed in April 2020.

The study is being carried out in accordance with the planning and design process for Schedule 'C' projects as outlined in the Municipal Class EA (October 2000, as amended in 2007, 2011, 2016, and 2021), which is approved under the Ontario Environmental Assessment Act. Public review agency and independent commission's contributions is a key element of the Municipal Class EA process and input will be sought throughout the process. The public was engaged in March 2022 to review the findings of the suitability of Ross Farm for the proposed facility. It is anticipated that a Public Information Centre (PIC) will be established to invite public input during the Municipal Class EA process.

**Comments Invited**  
If you have any questions or comments regarding the project, or wish to be added to an e-newsletter for the study, including EIA, please contact either of the following project team members:

- Robert Swanton, M.A.Sc., P.Eng.**  
Utilities Engineer, Utilities Kingston  
[Robert.Swanton@cityofkingston.ca](mailto:Robert.Swanton@cityofkingston.ca)  
(613) 846-1101, ext. 3482
- Betsy VanHous, P.Eng.**  
Partner, COBE Consulting Limited  
[BVH@cobecanada.com](mailto:BVH@cobecanada.com)  
(416) 229-4647, ext. 2029

To learn more about the Project please visit the project website: <http://www.cityofkingston.ca/projects/Details/RegionalBiosolidsBiogasFacility>. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice was first issued on September 16, 2021 and September 28, 2022.  
We'd please visit our website for participants or contact us regarding Sydney, Tel: (613) 846-1101 ext. 1000.





November 2, 2023

Mohawks of the Bay of Quinte  
Chief Donald Maracle  
24 Meadow Drive  
Tyendinaga Mohawk Territory, ON K0K 1X0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief Donald Maracle,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

The Stage 2 assessment will be conducted in order to document any archaeological resources that may be present in the areas of archaeological potential. Since the study area consists of lands where ploughing is not possible or viable, it will be necessary to use the test pit survey method to complete the Stage 2 assessment. The field methods breakdown is as follows:

- 3.17 ha (7.84 ac) Test Pit Survey at an Interval of  $\leq 5$  m
- 6.49 ha (16.03 ac) Combination Survey to Confirm No Archaeological Potential
- 1.67 ha (4.12 ac) No Archaeological Potential – Disturbed

Fieldwork for this project is anticipated to begin on November 13, as long as field conditions permit. ARA has assumed that the Stage 2 fieldwork will be completed in 4 days with a field crew of 10 people (1 Field Director and 9 Field Technicians).

Agreements for this project will be executed directly with Utilities Kingston. Please forward agreements to Lauren Scanlan at [lsanlan@utilitieskingston.com](mailto:lsanlan@utilitieskingston.com) for signing.

We welcome your contribution to the project and are always happy to address any concerns that may arise. If you would like to participate in this project, please contact Megan DeVries at [megan.devries@araheritage.ca](mailto:megan.devries@araheritage.ca) or 519-573-6546 to confirm.

Best,



**Paul Racher, MA, CAHP, RPA**

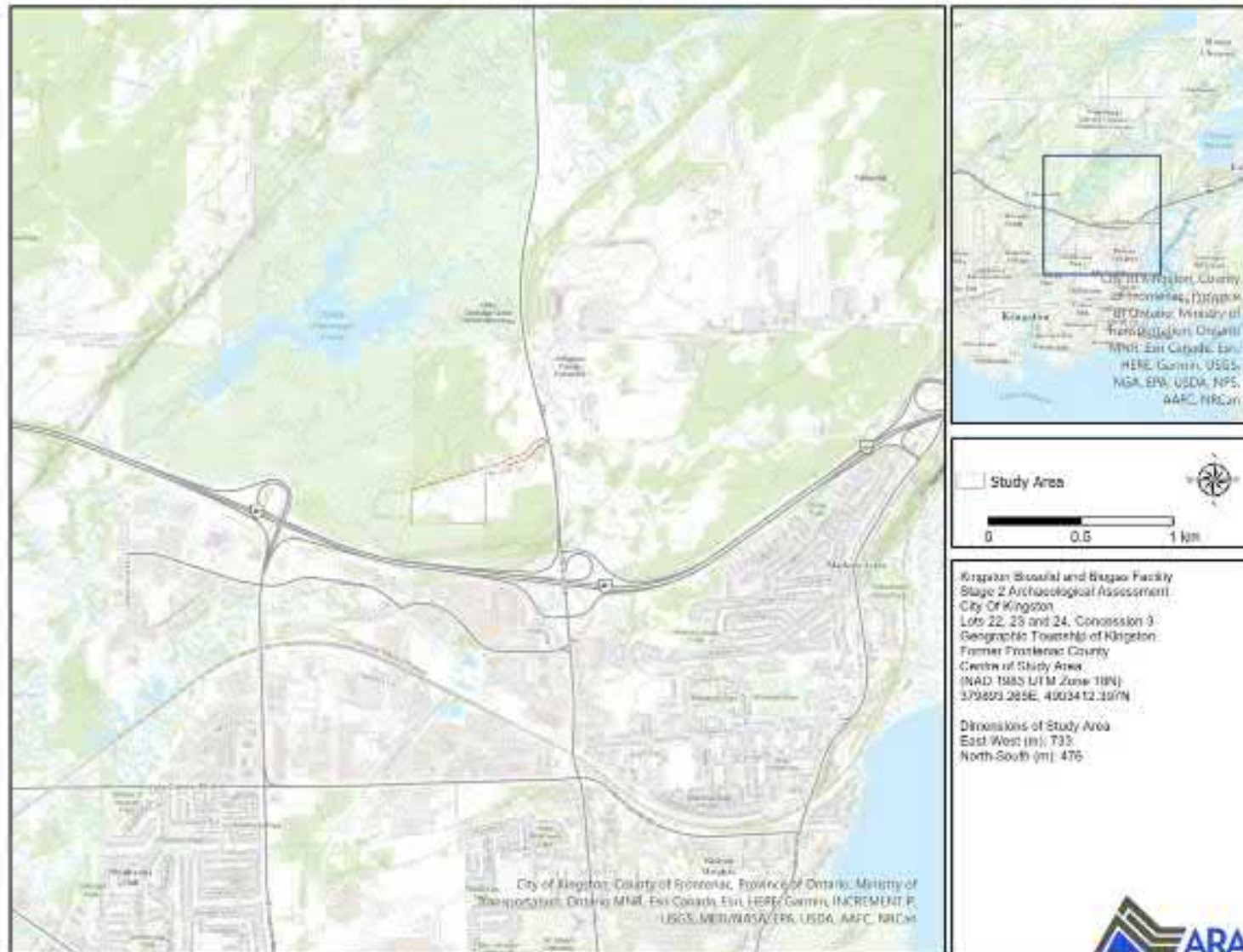
**Principal - Archaeological Research Associates Ltd.**

Hamilton Office: 205 Cannon St East, Hamilton, ON, L8L 2A9

Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Mohawk Council of Akwesasne  
Grand Chief Abram Benedict  
Mohawk Council of Akwesasne  
PO Box 90  
Akwesasne, QC H0M 1A0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Grand Chief Abram Benedict,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

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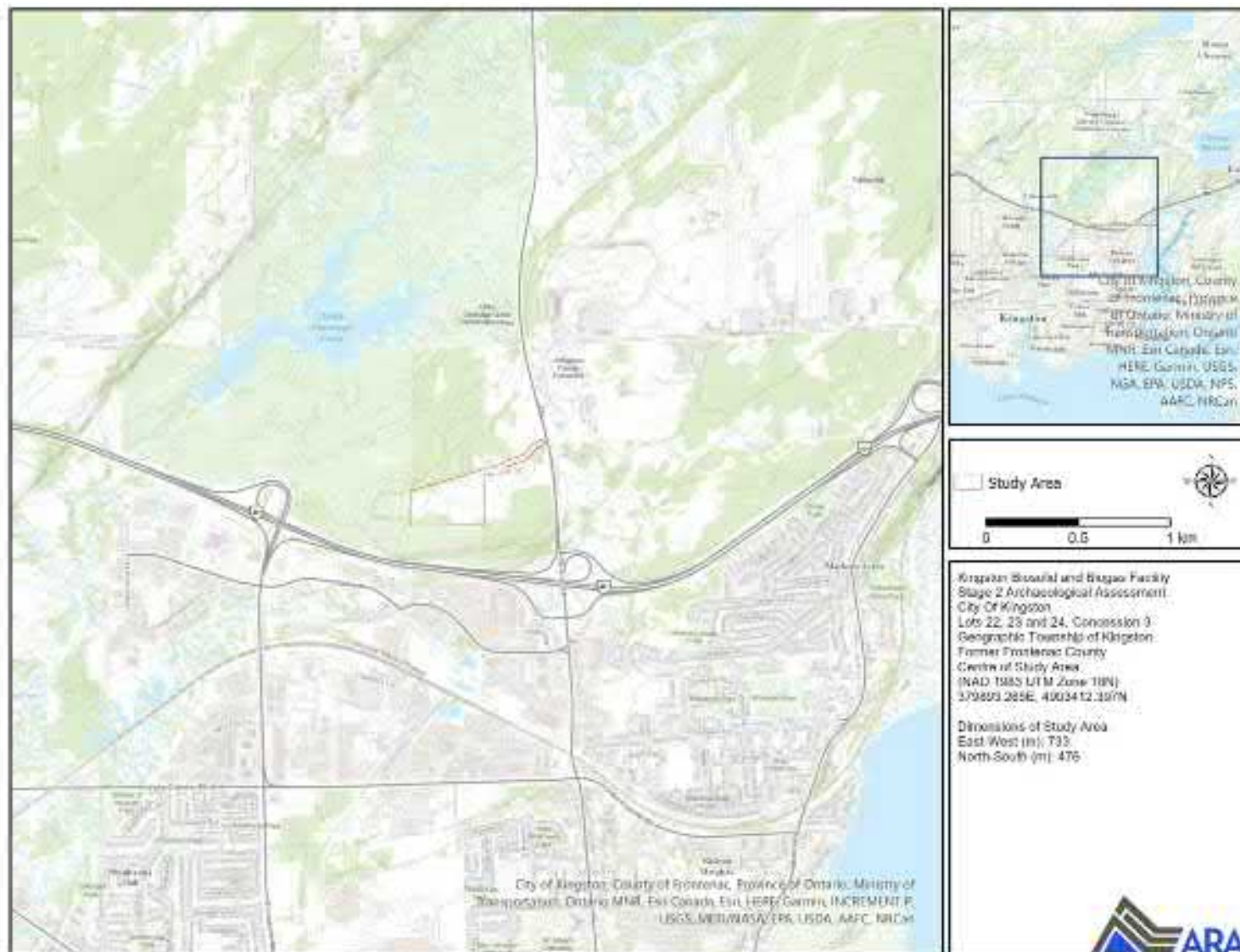
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Alderville First Nation  
Chief David Mowat  
11696 2nd Line Rd.  
PO Box 46  
Alderville, ON K0K 2X0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief David Mowat,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

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Best,



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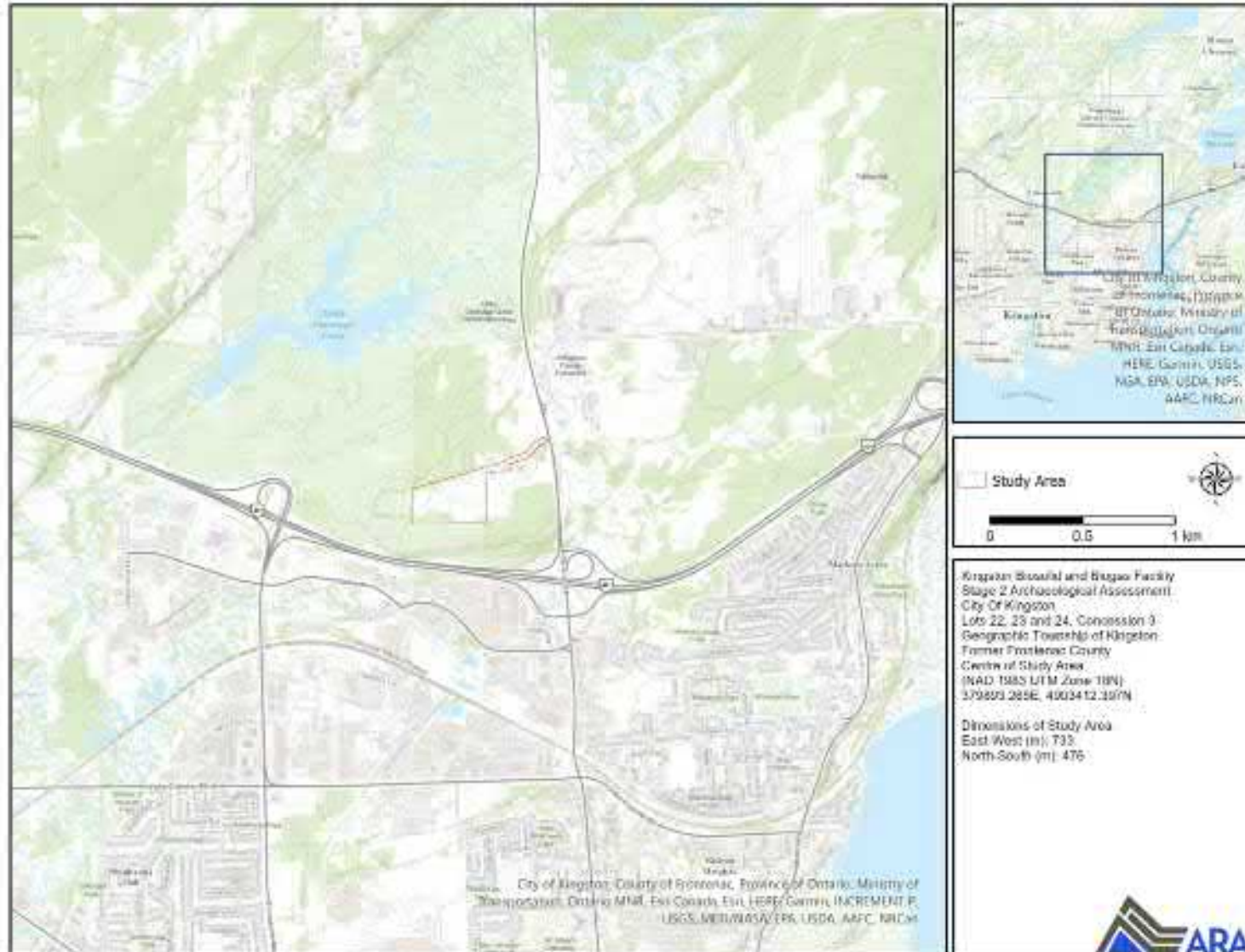
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Curve Lake First Nation  
Chief Keith Knott  
22 Winookeedaa Road  
Curve Lake, ON K0L 1R0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief Keith Knott,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

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Best,



**Paul Racher, MA, CAHP, RPA**

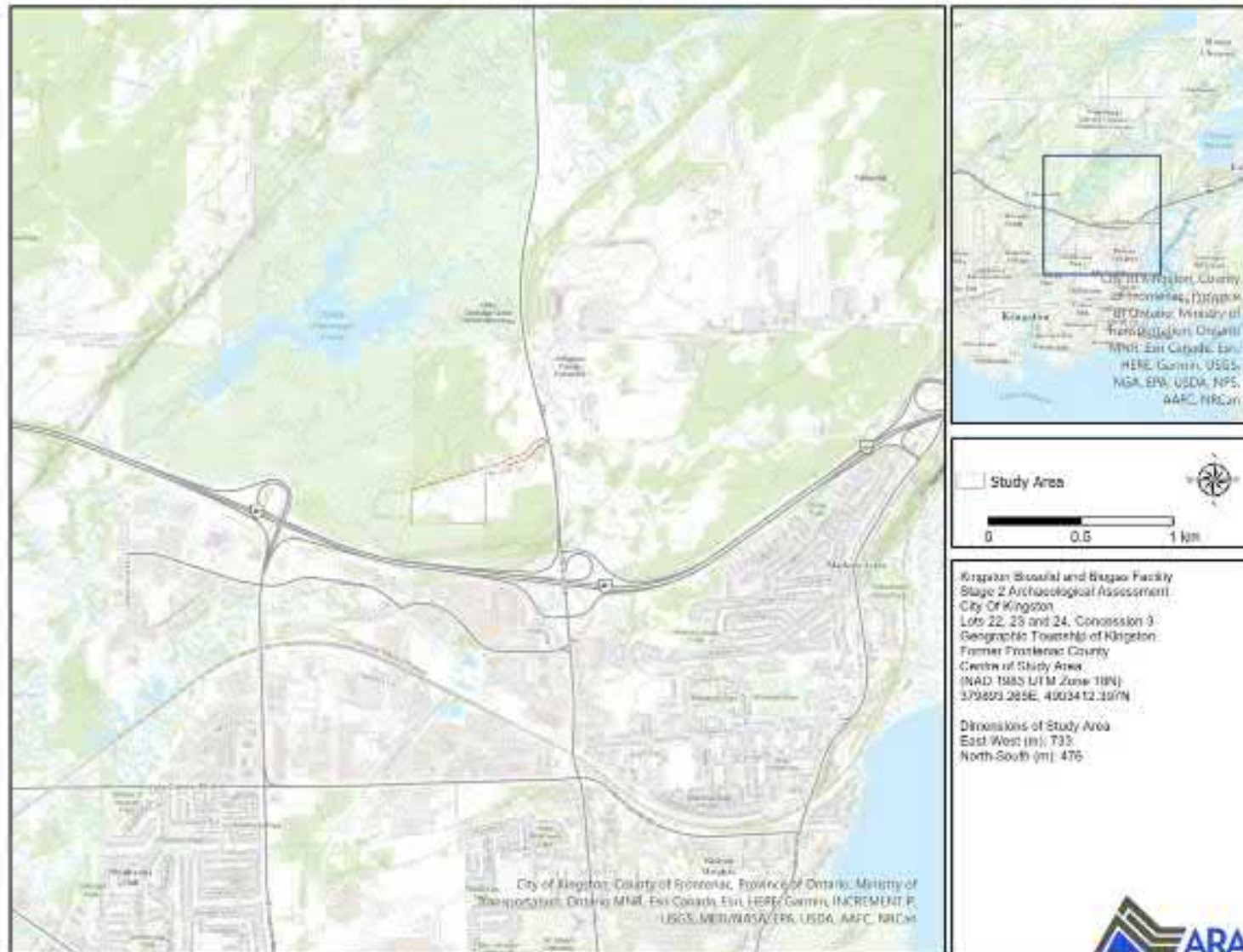
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Shabot Obaadjiwan First Nation  
Chief Doreen Davis  
24719 Hwy 7  
Sharbot Lake, ON K0H 2P0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief Doreen Davis,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

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**Paul Racher, MA, CAHP, RPA**

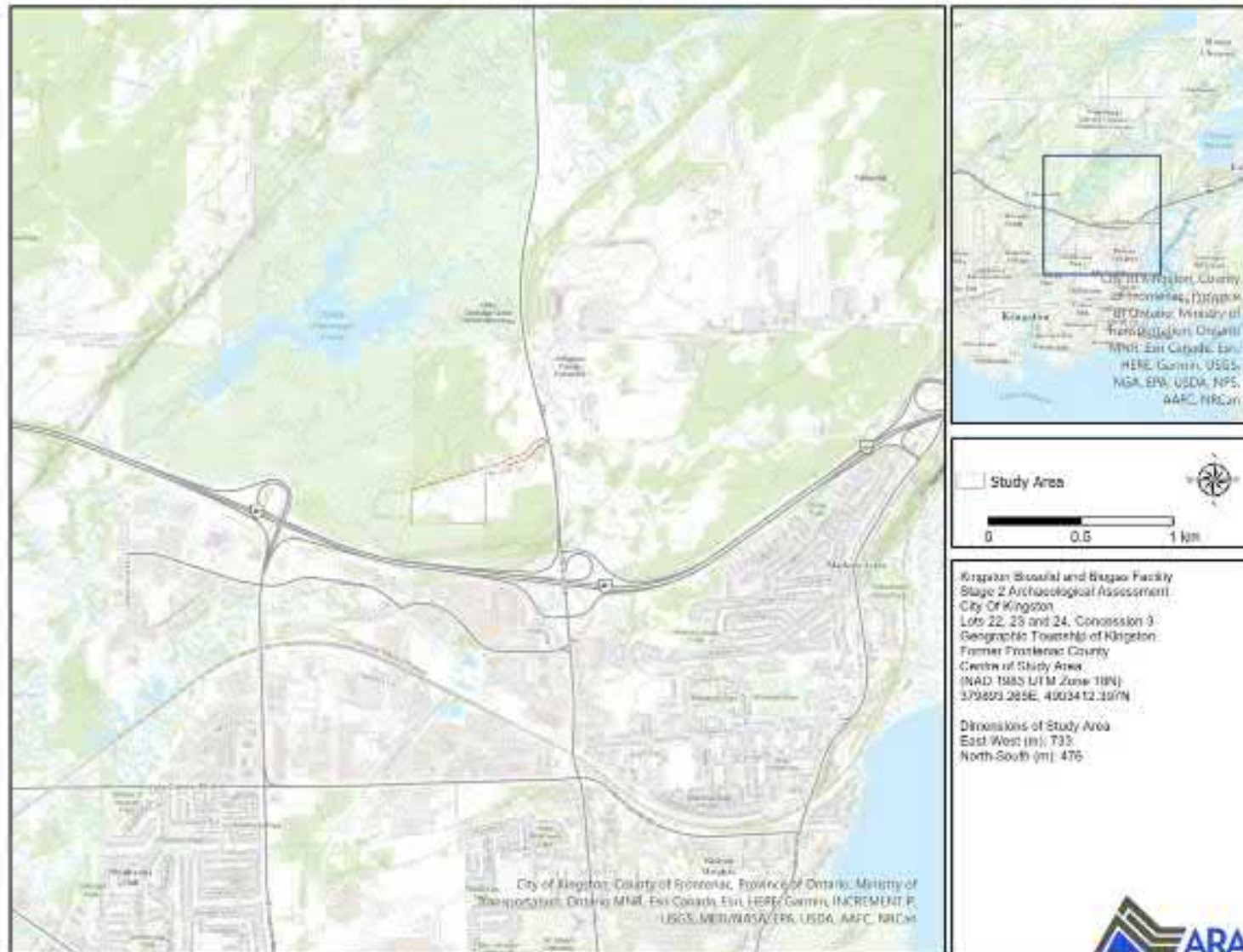
**Principal - Archaeological Research Associates Ltd.**

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Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Algonquins of Pikwàkanagàn  
Chief Wendy Jocko  
1657A Mishomis Inamo  
Pikwakanagan, ON K0J 1X0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief Wendy Jocko,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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Best,



**Paul Racher, MA, CAHP, RPA**

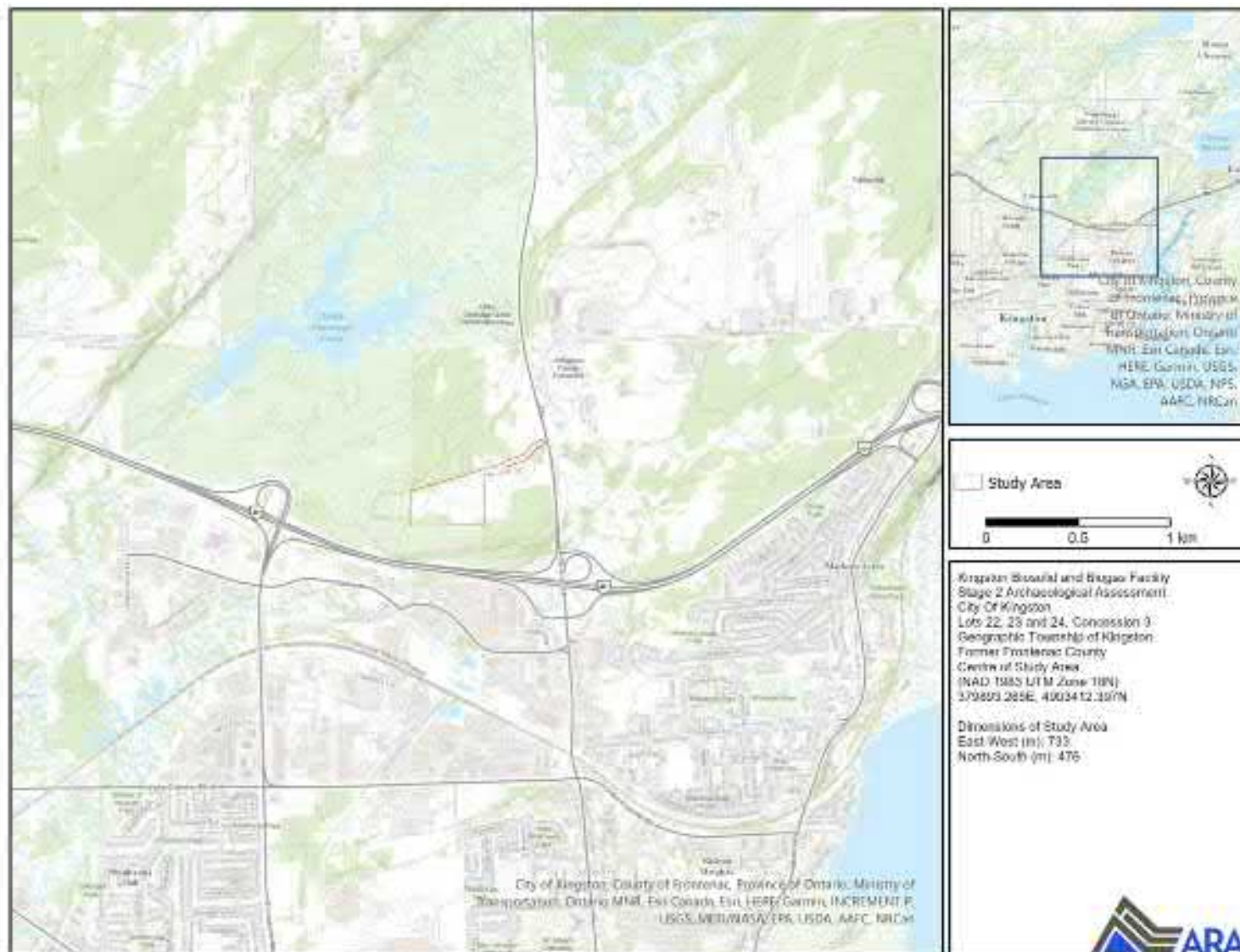
**Principal - Archaeological Research Associates Ltd.**

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Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Six Nations of the Grand River  
Chief Mark Hill  
1695 Chiefswood Rd  
PO Box 5000  
Ohsweken ON N0A 1M0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Chief Mark Hill,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

The Stage 1 assessment was conducted by ARA in October 2022. It was determined that the study area comprises a mixture of areas of archaeological potential and areas of no archaeological potential. The Stage 1 archaeological report recommended that all areas of archaeological potential that could be impacted by the project be subject to a Stage 2 property assessment.

The Stage 2 assessment will be conducted in order to document any archaeological resources that may be present in the areas of archaeological potential. Since the study area consists of lands where ploughing is not possible or viable, it will be necessary to use the test pit survey method to complete the Stage 2 assessment. The field methods breakdown is as follows:

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Best,



**Paul Racher, MA, CAHP, RPA**

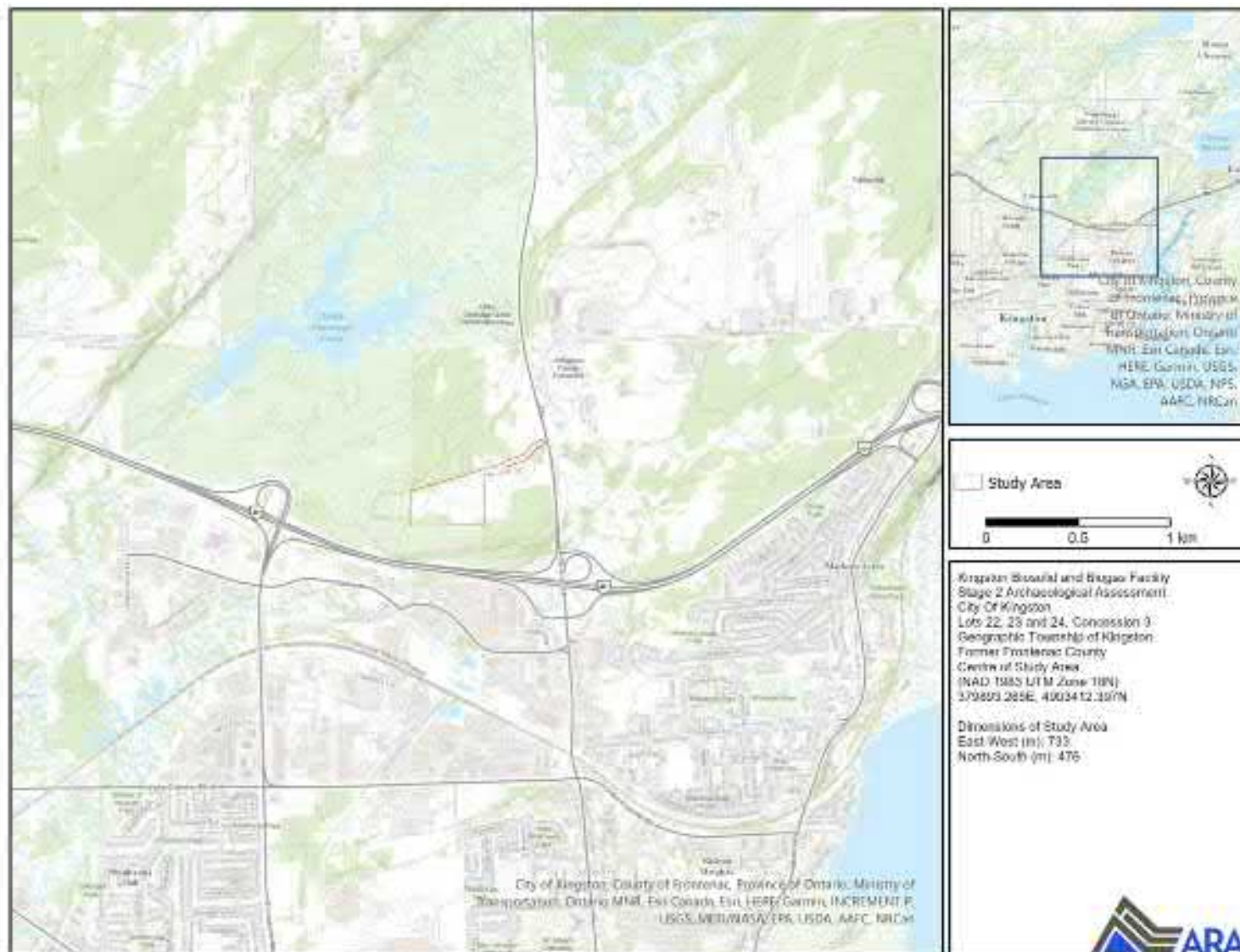
**Principal - Archaeological Research Associates Ltd.**

Hamilton Office: 205 Cannon St East, Hamilton, ON, L8L 2A9

Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Mohawk Nation Council of Chiefs  
Barrister and Solicitor, Paul Williams

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston  
Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Paul Williams,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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Best,



**Paul Racher, MA, CAHP, RPA**

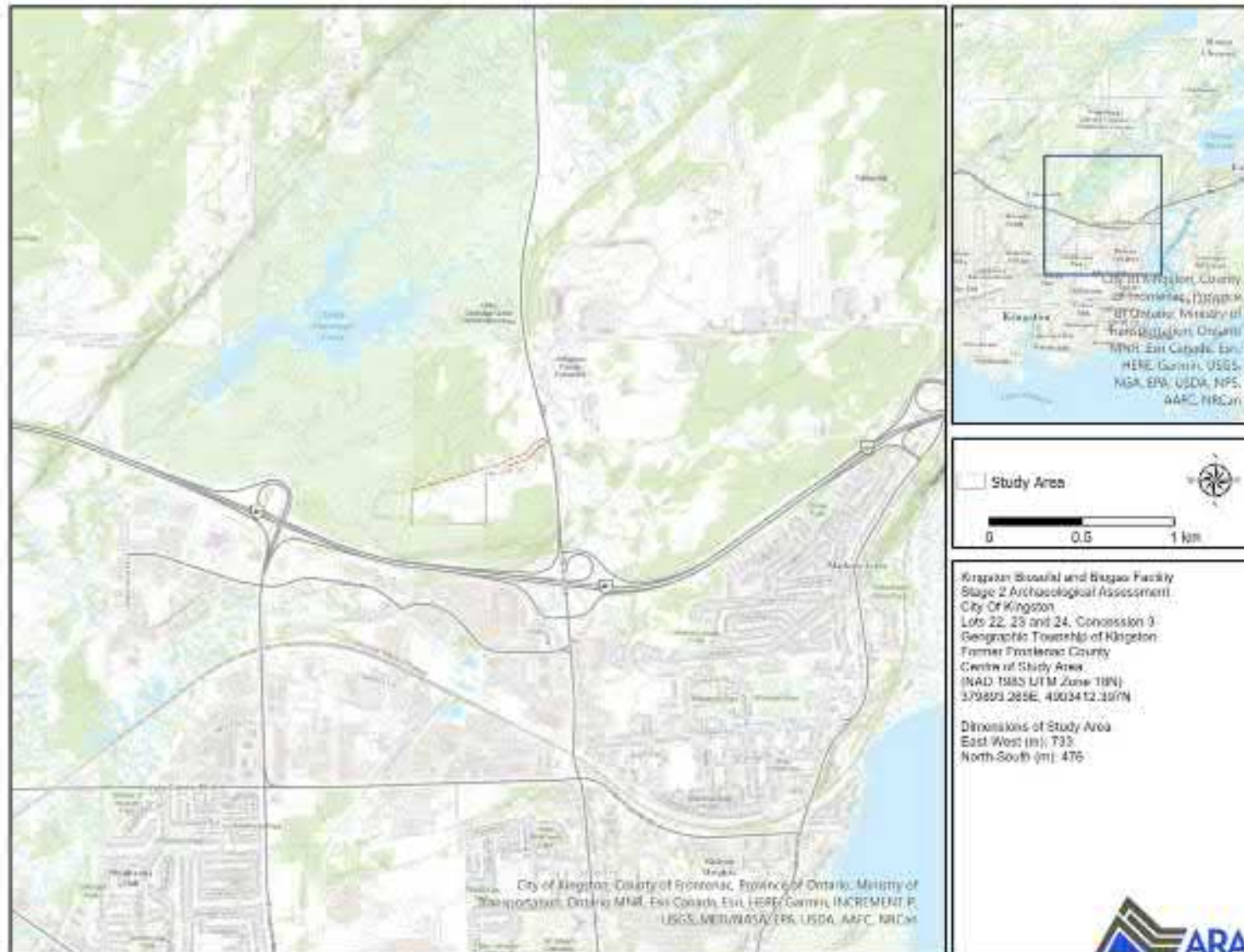
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Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Huron-Wendat Nation  
Grand Chief Rémy Vincent  
255, place Chef Michel Laveau  
Wendake, QC G0A 4V0

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Grand Chief Rémy Vincent,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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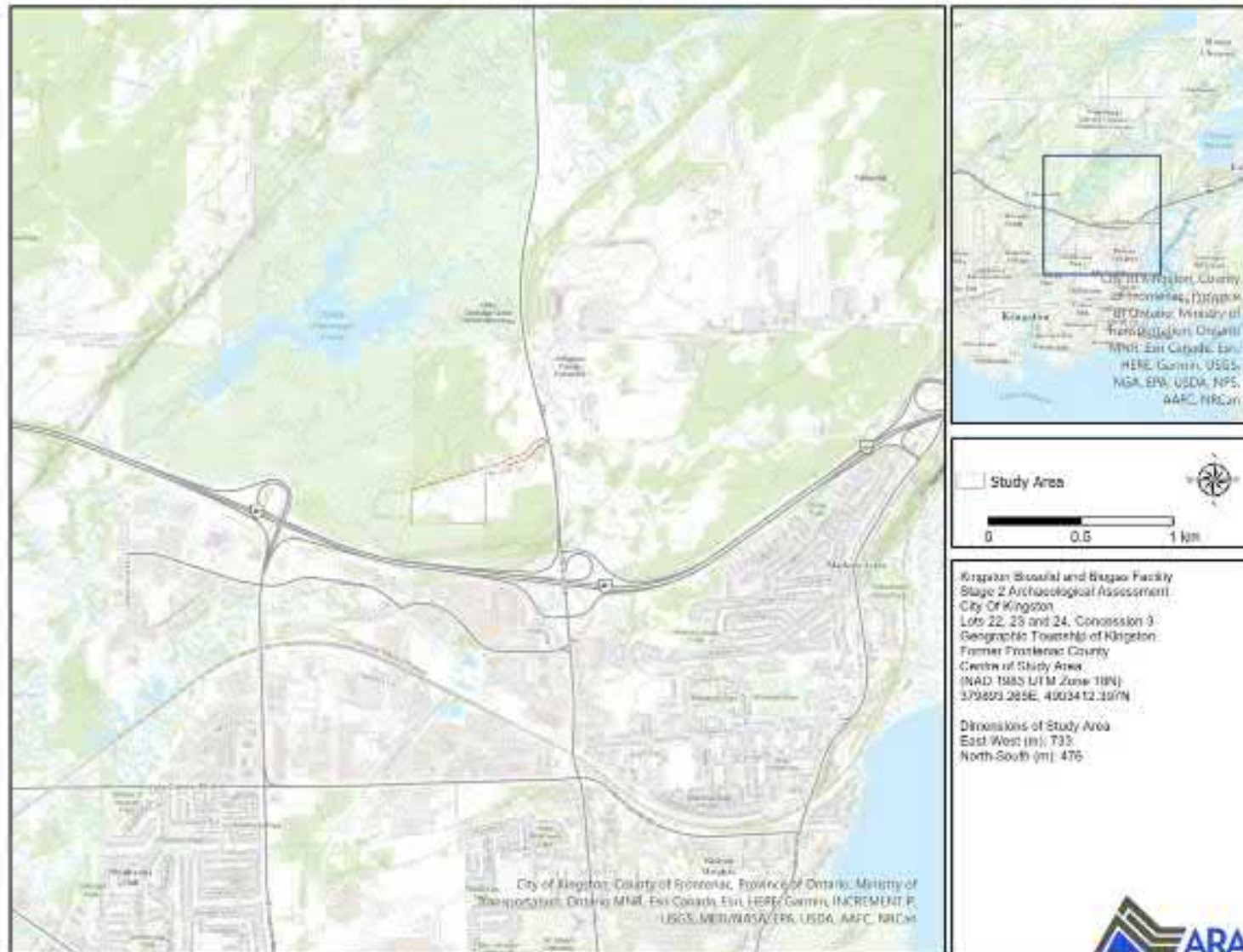
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Algonquins of Ontario  
Executive Director, Consultations Office, Janette Stabinga  
31 Riverside Drive, Suite 101  
Pembroke, ON K8A 8R6

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Janette Stabinga,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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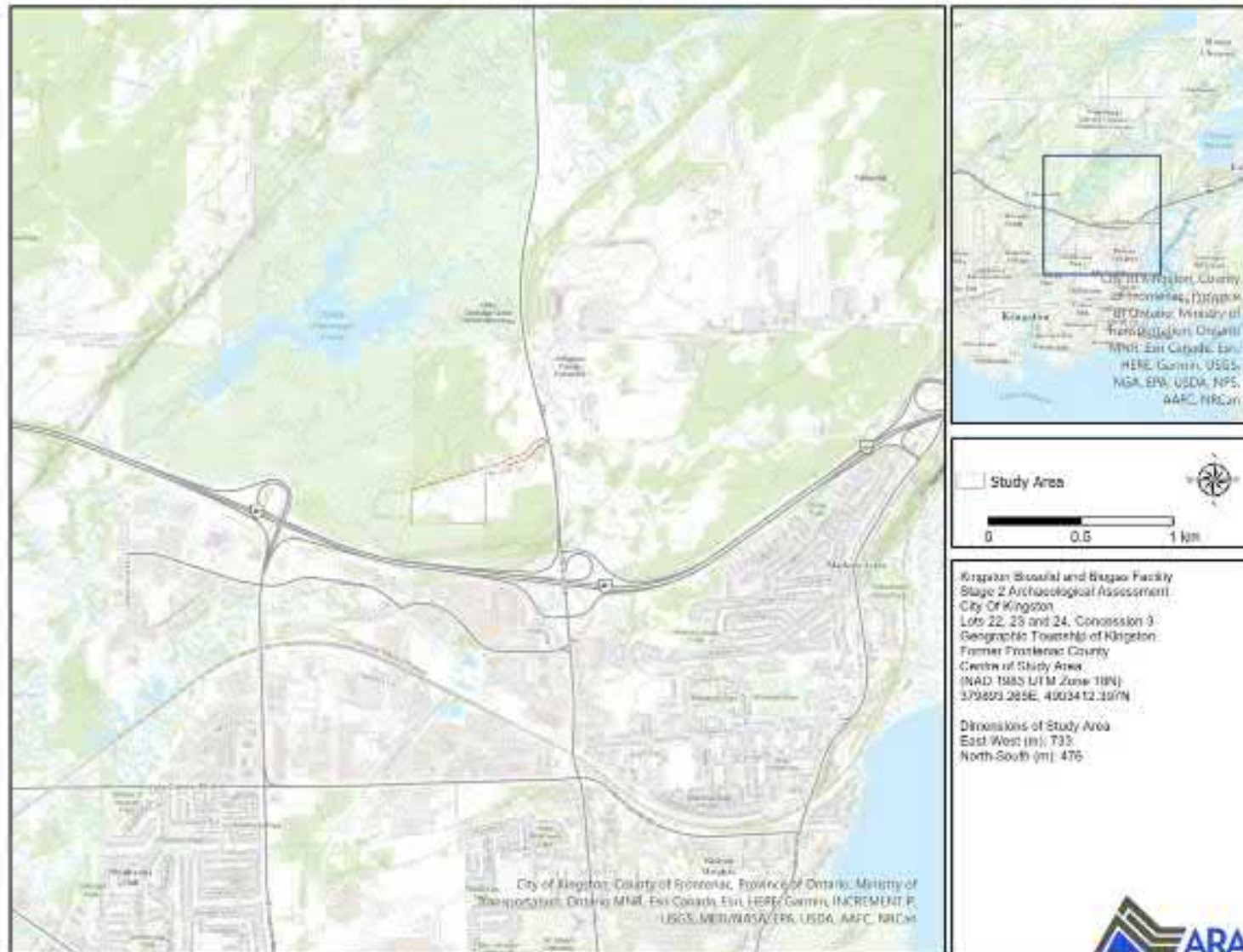
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

Métis Nation of Ontario  
Regional Consultation Committee  
66 Slater Street, Suite 1100, 11th Floor  
Ottawa, ON K1P 5H1

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston  
Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Regional Consultation Committee,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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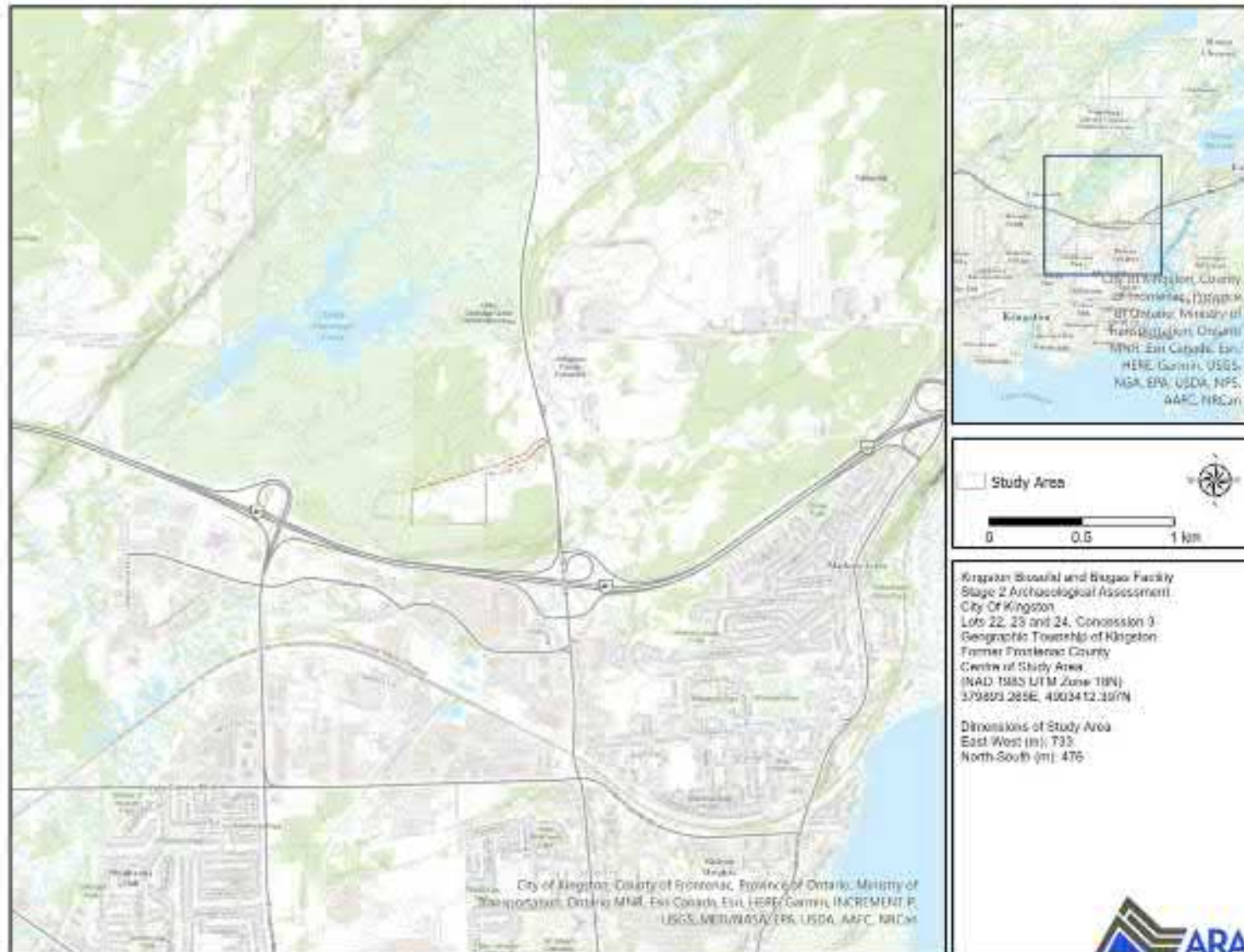
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Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

William Treaties First Nations  
Karry Sandy McKenzie

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Karry Sandy McKenzie,

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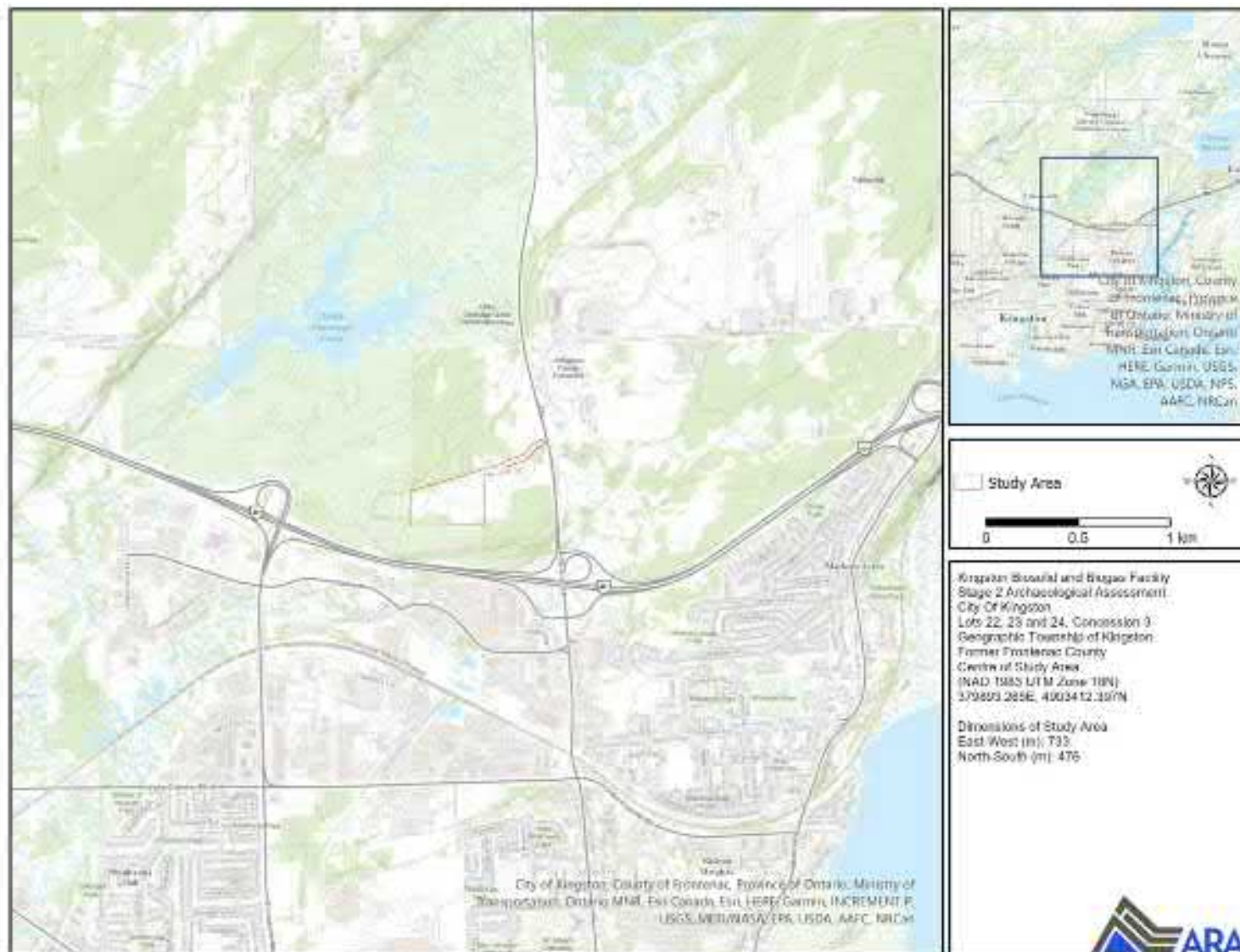
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**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**



November 2, 2023

MNO Peterborough and District Wapiti Metis Council  
Council President, Christa Lemelin

**RE: Project Notification – Stage 2 Archaeological Assessments, Kingston  
Regional Biosolids and Biogas Facility, City of Kingston, ON**

Dear Christa Lemelin,

Archaeological Research Associates Ltd. (ARA) has been contracted by Dillon Consulting Ltd., on behalf of Utilities Kingston, for the Stage 2 archaeological assessment to be conducted in support of a Municipal Class Environmental Assessment as part of the Kingston Regional Biosolids and Biogas Facility, in the Geographic Township of Kingston, Former Frontenac County, Ontario. The proposed site location and an archaeological buffer require archaeological assessment in advance of development. The study area is approximately 11.33 ha (27.99 ac) in size and is located on part of Lots 23-24, Concession 3, in the Geographic Township of Kingston (see Map 1).

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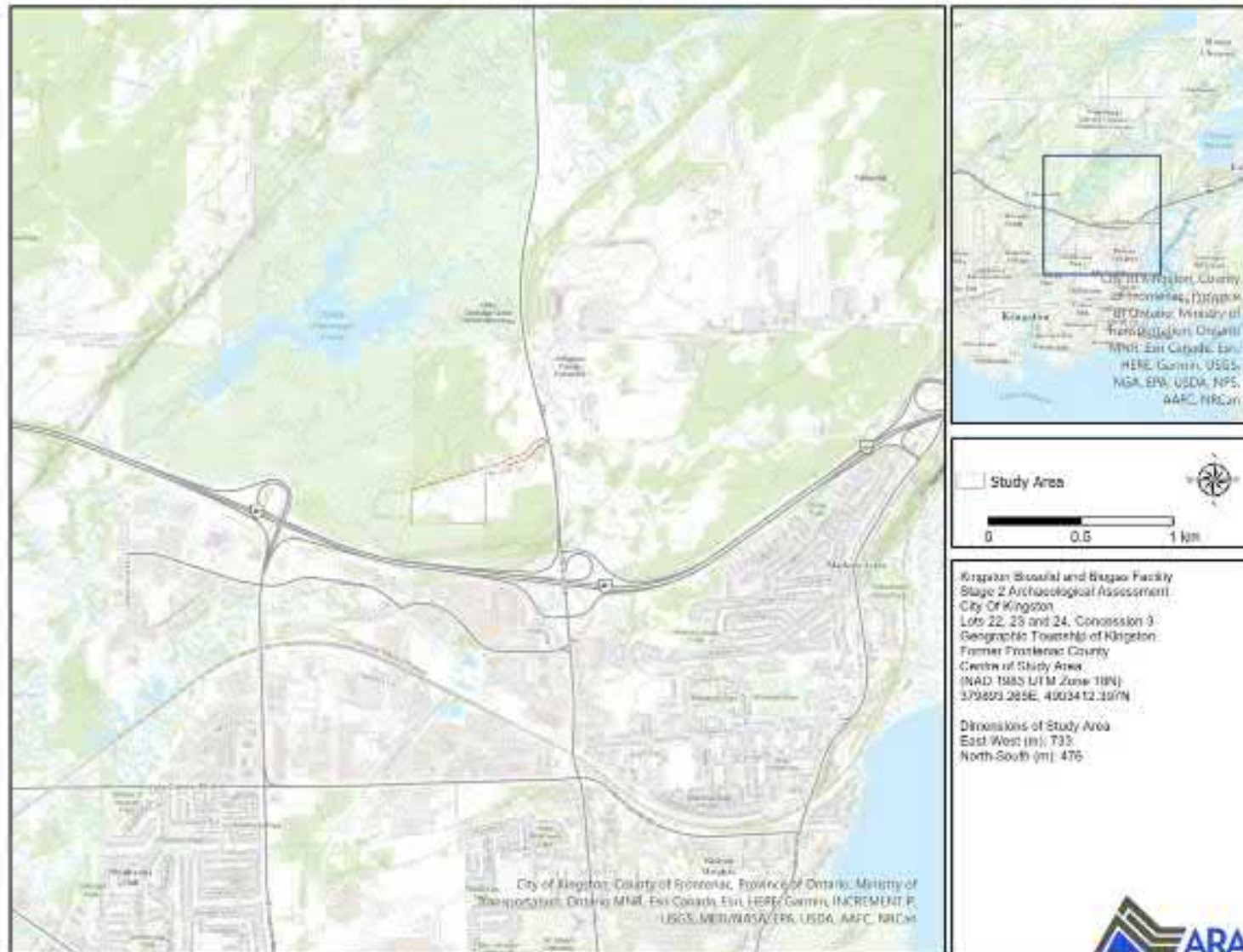
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Kitchener Office: 465 Maple Ave – Unit 9, Kitchener, ON N2H 6N5



**Map 1: Location of Stage 2 Archaeological Assessments, Kingston Regional Biosolids and Biogas Facility, City of Kingston, ON**







# Utilities Kingston invites public to learn more about the proposed Kingston Regional Biosolids & Biogas Facility

March 14, 2024



Utilities Kingston invites community members to learn more about the Kingston Regional Biosolids & Biogas Facility project.

The proposed facility offers an innovative solution to combine and process biosolids from the Ravensview and Cataraqui Bay Wastewater Treatment Plants and the City's Green Bin program to produce renewable natural gas (biogas) and other beneficial resources.



## How to participate:

Join Utilities Kingston and Dillon Consulting Limited online or in-person on Wednesday, March 27 to learn more about the project, review evaluations of the design concepts, and share input on the preliminary preferred concept.

- Drop-in to the Utilities Kingston main office at 85 Lappan's Lane between 4 and 8 p.m.
- [RSVP to attend](#) [↗](#) a virtual meeting from 7 to 8 p.m.

Input can also be shared in an online survey available from March 27 to April 12 on the project website: [UtilitiesKingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility](https://UtilitiesKingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility)

The Biosolids & Biogas Facility project was prompted by the need to expand solids treatment infrastructure and reduce the environmental impact of utility service delivery. Managing organic waste and producing renewables is expected to reduce greenhouse gas emissions from operations, aligning with the City of Kingston and Utilities Kingston's climate action goals.

The upcoming public engagement is part of a Municipal Class Environmental Assessment that involves the development and evaluation of alternative design concepts for the facility. Earlier work included a suitability assessment of the Knox Farm location in January 2023, followed by a public engagement in March.

Next steps will include reviewing community feedback from upcoming engagements, finalizing an Environmental Study Report and developing a comprehensive business plan to help determine project feasibility.

Utilities Kingston expects to make a final decision on the project's advancement by the end of 2024.

# Monument to Ukrainian Nazi veterans removed - for repairs

BY THE CANADIAN PRESS

It happened in Canada: The monument to the Ukrainian Nazi veterans that was erected in 1992 and dedicated to the fallen soldiers of the Ukrainian National Army (UNA) during the Second World War has been removed after years of controversy. While the monument was dedicated to the fallen soldiers, however, the controversy was not about the fallen soldiers but about the fallen soldiers' actions during the war.

The monument was dedicated to the fallen soldiers of the UNA during the Second World War. The controversy was not about the fallen soldiers but about the fallen soldiers' actions during the war. The monument was dedicated to the fallen soldiers of the UNA during the Second World War. The controversy was not about the fallen soldiers but about the fallen soldiers' actions during the war.

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OPINION

# Meta is threatening our society

BY GUY CARLSON

Meta's recent announcement that it will get out of the public domain and be sold to private investors is a move that is a threat to our society.

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The sale of the Meta company to private investors is a move that is a threat to our society. The sale of the Meta company to private investors is a move that is a threat to our society.

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# CANADA

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## CITY OF KINGSTON NOTICE OF PUBLIC INFORMATION CENTRE Kingston Regional Biosolids & Biogas Facility

Utilities Kingston is conducting a Municipal Class Environmental Assessment (Class EA) for a combined biogas and organic waste recycling facility at Kings Point, a municipally-owned property located off Pelee Road just northwest of the Highway 401 and Ontario Street interchange in the City of Kingston (refer to proposed project location map). The goal is that the facility will process wastes from the city's wastewater treatment plants and "green" (biogenic) products a renewable natural gas (biogas) and other beneficial resources.

This study is being carried out in accordance with the planning and design process for Schedule "C" projects as outlined in the Municipal Class EA (October 2008), as amended.

### Proposed Project Location Map



Stakeholder engagement and Indigenous consultation are key components of this study. Members of the public, regulatory agencies, Indigenous communities, and other interested persons are invited to participate.

Utilities Kingston and Dfo are hosting an in-person drop-in style public information centre and a virtual public information centre on March 27, 2024 to provide you with an opportunity to voice your concerns, and provide input on the evaluation of the site layout design concepts and preliminary preliminary design concepts.

**Public Session**  
Open to the Public - Free  
Utilities Kingston main office  
30 Lapan's Lane, Kingston, ON

Use the front entrance.  
Parking is available in the front and back of the building.

**Virtual Session**  
Presentations: 10am - 2:30pm  
Discussion: 2:30pm to 4pm

Register for the virtual session here:  
<https://www.kingstons.ca/Projects/Grant-Regional-Biosolids-Biogas-Facility>

Learn more of the project website:  
[www.kingstons.ca/Projects/Grant-Regional-Biosolids-Biogas-Facility](http://www.kingstons.ca/Projects/Grant-Regional-Biosolids-Biogas-Facility)

Comments or questions are requested by April 5, 2024.  
To provide comments or request further information, please contact:

**Lizette Scadden, M.A.Sc., P.Eng.**  
Project Advisor - Biol-5 Research, Utilities Kingston  
[LScadden@UtilitiesKingston.ca](mailto:LScadden@UtilitiesKingston.ca), (613) 540-1101, ext. 2422

**Beth Vaughan**  
P.O. Box Palmer, Dico Consulting Limited  
[BVaughan@Dico.ca](mailto:BVaughan@Dico.ca), (416) 228-4847, ext. 2325

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice was first issued on March 12, 2024.

We'll power up your printer and reimagined on a power up applied System Tool, at 1-888-345-5828 page 13/3.



# Canada won't shift foreign policy: Joly

BY ANNE HARRIS  
OTTAWA BUREAU CHIEF

OTTAWA (Canada) — Prime Minister Justin Trudeau's cabinet will not shift its foreign policy, but it will continue to change the way it is implemented, according to a statement by the prime minister's office on Tuesday.

Joly, who has been in the cabinet since 2015, said the government will continue to work with its allies to address global challenges, but it will also continue to work with its partners to address global challenges.

"We will continue to work with our allies to address global challenges, but we will also continue to work with our partners to address global challenges," Joly said.

"We will continue to work with our allies to address global challenges, but we will also continue to work with our partners to address global challenges," Joly said.

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Foreign Minister Mélanie Joly says that Canada won't change its foreign policy, but it will continue to work with its partners to address global challenges. (The Canadian Press)

Foreign Minister Mélanie Joly says that Canada won't change its foreign policy, but it will continue to work with its partners to address global challenges.

"We will continue to work with our allies to address global challenges, but we will also continue to work with our partners to address global challenges," Joly said.

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## CANADA

and an effort to speed up the process of... (The Canadian Press)

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### City of Kingston NOTICE OF PUBLIC INFORMATION CENTRE Kingston Regional Biosolids & Biogas Facility

Utilities Kingston is identifying a Municipal Class Environmental Assessment (Class EA) for a combined biogas and organic waste recycling facility at Kings Point, a municipally owned property located off Pelee Road just northwest of the Highway 401 and Ontario Street interchange in the City of Kingston (refer to proposed project location map). The intent is that the facility will process wastes from the City's wastewater treatment plants and "green" (bio) gas production as a renewable natural gas (biogas) and other beneficial resources.

This study is being carried out in accordance with the planning and design process for Schedule "C" projects as outlined in the Municipal Class EA (October 2008), as amended.

#### Proposed Project Location Map



Stakeholder engagement and Indigenous consultation are key components of this study. Members of the public, regulatory agencies, Indigenous communities, and other interested persons are invited to participate.

Utilities Kingston and Dfo are hosting an in-person drop-in style public information session and a virtual public information session on **March 27, 2024** to provide you with an opportunity to voice your questions, and provide input on the location of the site layout design concepts and preliminary preferred design concept.

#### Public Session

Open: 5pm April 1st  
Utilities Kingston main office  
30 Lapan's Lane, Kingston, ON

Use the front entrance.

Parking is available in the front and back of the building.

#### Virtual Session

Presentations: 7pm - 7:30pm

Discussion: 7:30pm to 8pm

Register for the virtual session here:  
<https://www.kingston.ca/Projects/GRIP/RegionalBiosolidsBiogasFacility>

Learn more about the project website:  
[www.kingston.ca/Projects/GRIP/RegionalBiosolidsBiogasFacility](http://www.kingston.ca/Projects/GRIP/RegionalBiosolidsBiogasFacility)

Comments or questions are requested by April 5, 2024.

To provide comments or request further information, please contact:

LARRY BRADEN, M.A.Sc., P.Eng.  
Project Advisor - Proj-5 Research, Utilities Kingston  
[LBraden@utilities Kingston.ca](mailto:LBraden@utilities Kingston.ca), (613) 540-1101, ext. 2402

BANK VARGHESE  
P.O. Box 1000, Dfo Consulting Limited  
[BNKingsPer@Dfo.ca](mailto:BNKingsPer@Dfo.ca), (116) 228-4847, ext. 2205

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

This notice was first issued on March 12 and March 15, 2024.

With power over a printer and arrangements on Kingston or outside Kingston, call us at 613-540-5020 press 1316.



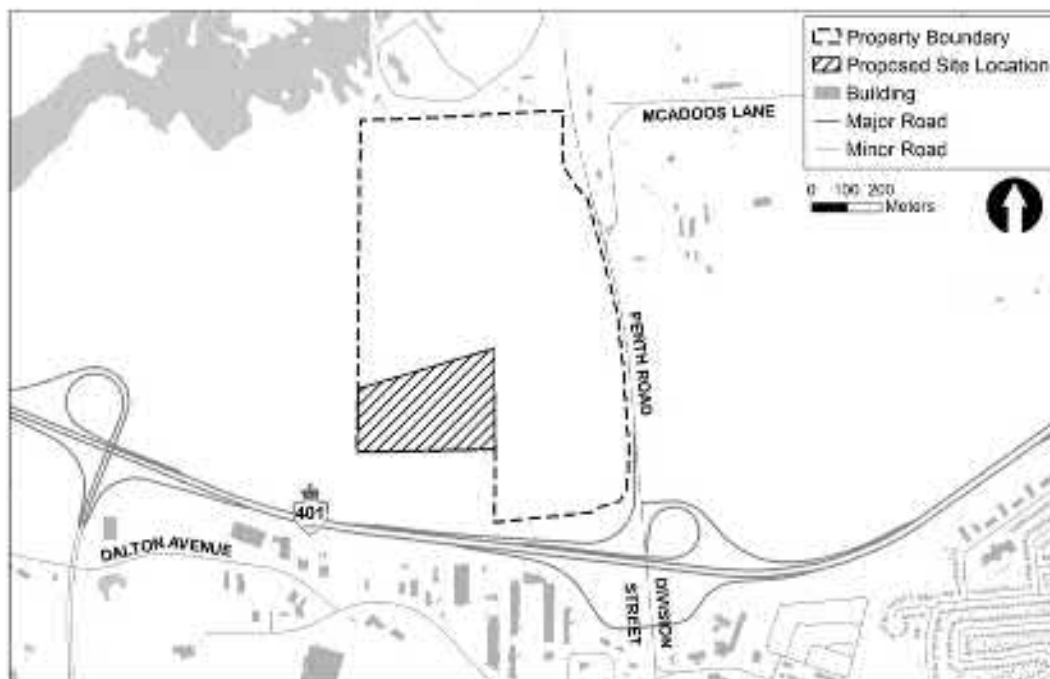


## Notice of Completion

Schedule 'C' Municipal Class Environmental Assessment for:

### Kingston Regional Biosolids & Biogas Facility

Utilities Kingston undertook a Municipal Class Environmental Assessment (Class EA) for a combined biosolids and organic waste processing facility at Knox Farm, a Municipally owned property located off Perth Road just northwest of the Highway 401 and Division Street interchange in the City of Kingston (**refer to proposed project location map**). The intent is that the facility will process wastes from the City's wastewater treatment plants and "Green Bin" program to produce a renewable natural gas (biogas) and other beneficial resources.



This study has been completed in accordance with the planning and design process for Schedule C projects as outlined in the Municipal Class EA (October 2000, as amended in 2007, 2011, 2015, and 2023), which is approved under the *Ontario Environmental Assessment Act*.

In accordance with the Municipal Class EA, an Environmental Study Report (ESR) has been prepared to document the planning and design process leading to the selection of the preferred design concept for the facility. The study process and recommendations are documented within the ESR which is now available for a 30-day comment period on the Utilities Kingston website:

[www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility](http://www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility)

Hard copies of the ESR are also available for public review at Kingston City Hall at 216 Ontario Street, Kingston Ontario K7L 2Z3, Monday to Friday between 8:30 am and 4:30 pm.

Interested persons may review the ESR and provide written comments to the project team by **September 11, 2024**. All comments and concerns should be sent directly to one of the project team members listed below.

**Lauren Scanlan, P.Eng.**  
Project Advisor – Risk & Research,  
Utilities Kingston  
[lscanlan@utilitieskingston.com](mailto:lscanlan@utilitieskingston.com)  
(613) 546-1181, ext. 2462

**Betsy Varghese, P.Eng.**  
Partner  
Dillon Consulting Limited  
[UKBiogasFacility@Dillon.ca](mailto:UKBiogasFacility@Dillon.ca)  
(416) 229-4647, ext. 2326

### **Section 16 Order**

A Section 16 Order Request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study, or that conditions be imposed (that is, requires further studies), only on the grounds that the requested order may prevent, mitigate, or remedy adverse impacts on constitutionally protected inherent and treaty rights of a First Nation or Indigenous Community. Requests on other grounds will not be considered.

Requests should include the requester's contact information and full name and specify what kind of order is being requested (request for additional conditions or a request for an additional/comprehensive EA) on the grounds specified previously, and any information in support of the statements in the request. The request should be sent in writing or by email to both of the following contacts and copied to the project team members listed above, no later than **September 11, 2024**.

**Minister of the Environment,  
Conservation and Parks**  
Ministry of the Environment,  
Conservation and Parks  
777 Bay Street, 5th Floor  
Toronto, Ontario, M7A 2J3  
Email: [Minister.MECP@ontario.ca](mailto:Minister.MECP@ontario.ca)

**Director, Environmental  
Assessment Branch**  
Ministry of the Environment,  
Conservation and Parks  
135 St. Clair Ave W, 1st Floor  
Toronto, Ontario, M4V 1P5  
Email: [EABDirector@ontario.ca](mailto:EABDirector@ontario.ca)

Further information on requests for orders under Section 16 of the Ontario *EA Act* is available on the MECP website at: <https://www.ontario.ca/page/class-environmental-assessments-section-16-order>

Information will be collected in accordance with the ***Freedom of Information and Protection of Privacy Act***. With the exception of personal information, all comments will become part of the public record.

**This notice was first issued on August 13, 2024.**

Vous pouvez vous procurer des renseignements en français en appelant Sydney Tasfi, au 1-888-345-5668 poste 1005.

## **Appendix F-4**

### **Public Drop-In Session Boards**



# Welcome!



## Kingston Regional Biosolids & Biogas Facility

Public Drop In Session

March 28, 2023

### Purpose of Drop In Session

**At this Drop In Session,  
you will have the opportunity to:**

- Learn about how biosolids from the wastewater treatment plants and Green Bin organics are currently managed
- Learn about the proposed facility and location
- Learn how this project supports Kingston's commitment to climate leadership
- Complete a survey about the Project
- Provide input and remain informed



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# Biosolids and Source Separated Organics (SSO)



**Biosolids** are the treated organic materials that are removed from our water after we flush it down the drain.

- Biosolids are currently processed at one of two wastewater treatment plants operated by Utilities Kingston, one of which requires solids train upgrades to meet future needs.



**Source-Separated Organics (SSO)** are the food and organic wastes that are currently accepted in the City's Green Bin program

- Examples are food waste, paper towels and tissues and paper plates.
- SSO collected at the curbside are currently processed into compost by a private company hired by the City.



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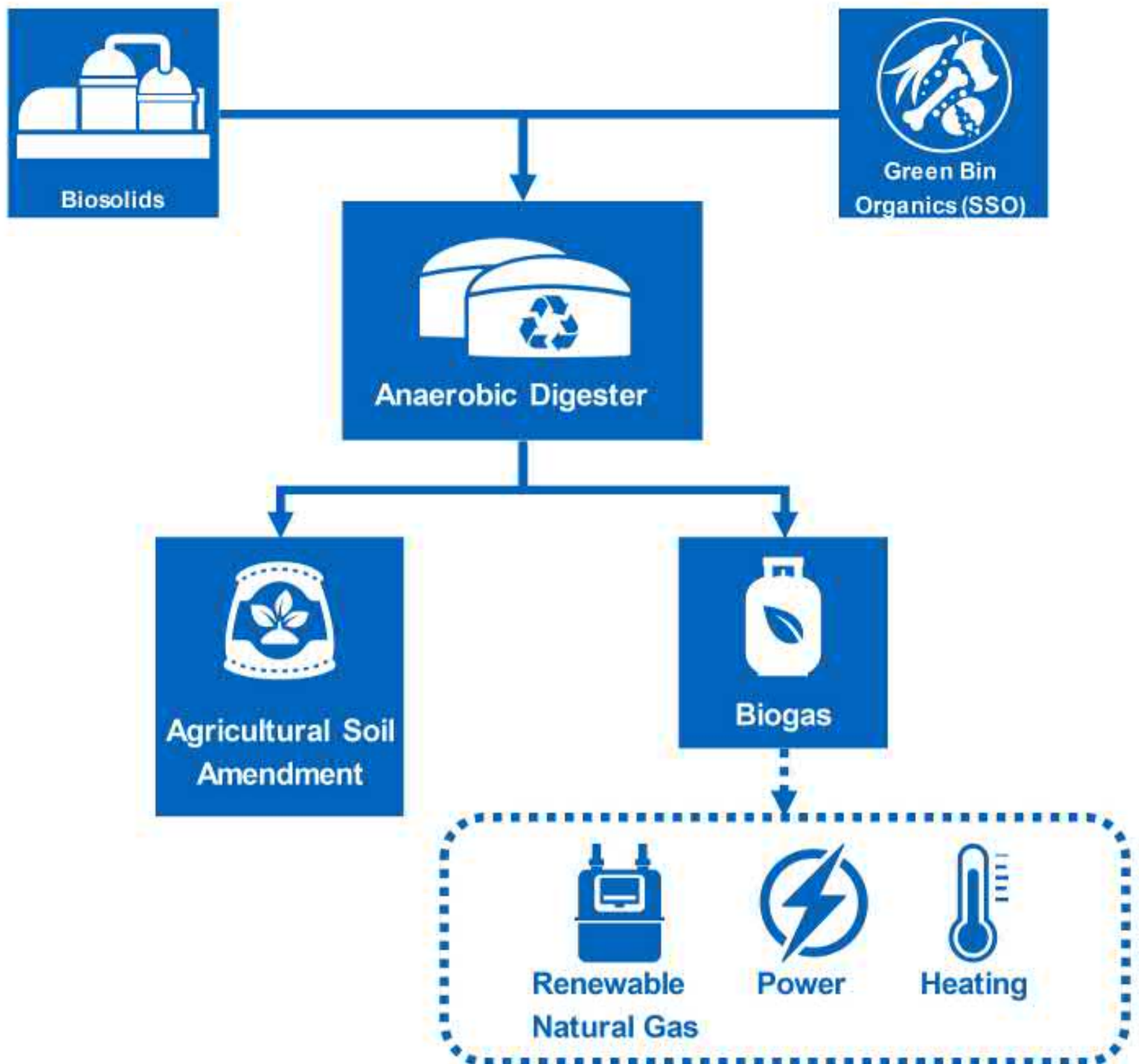
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# What is Anaerobic Digestion (AD)?

**Anaerobic Digestion (AD)** technology uses microorganisms to break down organic waste in the absence of oxygen

- The benefits of AD include:
  - Reduction in the volume of organics
  - Production of an organic nutrient-rich fertilizer
  - Production of biogas - a renewable energy source that can be used in place of petroleum natural gas





# Master Plan Overview

Master Plan For Enhanced Biosolids Management And Biogas Utilization (2020)



## Master Plan Purpose:

- Review long-term approach to biosolids management at all WWTPs.
- Address the need to increase capacity to handle sludge produced by the Cataraqui Bay wastewater treatment plant.
- Consider co-digestion of biosolids with SSO (or Green Bin materials) collected by the City and generated by the industrial, commercial and institutional (IC&I) sector as a future management approach.

The Master Plan followed Approach 1 of the Municipal Class Environmental Assessment (MCEA) process and included Phases 1 and 2:

- Phase 1: Development of the following Problem/Opportunity Statement:
- Phase 2: Development of Alternative Solutions and a Preferred Alternative

The following Alternative Solutions were considered:

- Alternative 1 - Do Nothing
- Alternative 2 - Optimize Infrastructure at Cataraqui Bay
- Alternative 3 - Optimize Infrastructure at Ravensview
- Alternative 4 - Incorporate SSO at Cataraqui Bay
- **Alternative 5 - Integrate Processing of Biosolids and SSO at Knox Farm (PREFERRED ALTERNATIVE)**

A new facility was proposed to accommodate future volumes of organic material and necessary upgrades to the existing wastewater treatment plants. The City-owned Knox Farm property was considered as a potential site for a facility to manage the City's organic wastes as well as additional organic wastes from other customers within and outside of the City to maximize biogas production and to benefit from the resulting Greenhouse Gas emission reductions.

**Utilities Kingston is now reviewing the Master Plan recommendation, including completing a detailed assessment of the Knox Farm property to see if it is suitable for the proposed facility.**



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# Current Project Work Completed



**1** Reconfirmation of Phases 1 and 2 of the Master Plan

**2** Assessment of Knox Farm for the proposed Facility

## Phase 1

### Problem / Opportunity Statement

#### The Master Plan identified the following opportunity that UK would address:

UK is presently positioned to address both the enhancement of the management of the biosolids generated at the Cataraqui Bay and Ravensview WWTPs, and to consider the introduction of the codigestion of these solids streams with waste organics both collected by the City and generated by the IC&I sector. This opportunity has arisen, in part, from the developments in Ontario regarding:

- The consideration of wastes as resources within the context of a circular economy;
- The increased interest in the province for the more effective management of waste organics with the objective of eliminating the landfilling of these materials; and
- The identification of opportunities for the generation and utilization of RNG thereby reducing the City's carbon footprint.

#### The Master Plan described the Undertaking as:

The enhancement of the production of biogas through enhancements to the biosolids processing trains at the City's two WWTPs, and including the possible codigestion of the biosolids and waste organics both collected by the City as SSO and generated by facilities in the IC&I sector.

#### Reconfirmed Problem/Opportunity

The above still holds true plus the additional opportunity of using an existing City-owned site (Knox Farm) for the potential development of a regional Facility that receives organic waste from local businesses, institutions and neighbouring municipalities in addition to managing City-generated organic wastes.



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# Current Project Work Completed



**1** Reconfirmation of Phases 1 and 2 of the Master Plan

**2** Assessment of Knox Farm for the proposed Facility

## Phase 2 Preferred Solution Reconfirmation

Dillon reconfirmed the alternatives presented in the Master Plan and provided additional considerations regarding Alternative 5, which included future expansion capabilities, updated cost estimates, and consideration of additional resources.

### Did You Know?

This project aligns with the City of Kingston and Utilities Kingston's Strategic Plans to demonstrate leadership on climate action. Converting organics into renewable natural gas helps reduce greenhouse emissions City-wide.



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# Current Project Work Completed



**1** Reconfirmation of Phases 1 and 2 of the Master Plan

**2** Assessment of Knox Farm for the proposed Facility

## Suitability Assessment of Knox Farm

### About Knox Farm:

- Municipally-owned 75 hectare property and vacant site.
- Located off Perth Road, north of Highway 401 and Division Street in the City of Kingston.
- South of Little Cataraqui Creek Conservation Area and the Cataraqui Region Conservation Authority.
- Outside of the City of Kingston's Urban Boundary.
- The proposed site location is approximately 9.3 hectares which was formerly used for sediment dewatering ponds (now decommissioned).
- The area east of the proposed site location is used by the City for seasonal snow storage.



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# Summary of Technical Assessments of Knox Farm



Technical Discipline		Summary
Land Use		An amendment to the Official Plan and/or Zoning Bylaw may be required
Air Quality		No concerns identified
Archaeology		A Stage 2 Archaeology Assessment is required before facility development
Cultural Heritage		No concerns identified
Hydrogeology		A karst assessment is required by a karst specialist
Natural Environment		No concerns identified
Noise		No concerns identified
Site Servicing		Additional options for water and wastewater management to be considered
Stormwater Management		No concerns identified
Traffic		No concerns identified



no concerns identified



additional investigation required



major barrier identified

**No major barriers were identified for Knox Farm as a potential location for the proposed facility**



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# Suitability Assessment of Knox Farm



An important milestone of the current project work was to assess the Knox Farm property to determine if it is a suitable site for the proposed Facility. A number of technical assessments were completed and are summarized here. The findings will support the next steps of the project, as appropriate.

Technical Discipline	Overview of Assessment	Findings
<b>Land Use</b> 	<p>Municipal and provincial policies were reviewed. The Proposed Site Location is located in lands designated in Kingston's Official Plan as Open Space, Rural and Environmental Protection Area (EPA). Neighbouring land uses are Rural and EPA. Based on the City's Zoning Bylaw, the Proposed Site Location is within the EPA Zone and a slim section of the General Rural Area Zone.</p>	<p>Amendments to the Official Plan and/or Zoning Bylaw may be required.</p>
<b>Air Quality</b> 	<p>The assessment looked at background air quality data, predominant wind speed and direction and nearby sensitive receptors (e.g., nearby residential dwellings, businesses, and the Little Cataraqui Creek Conservation Authority Trail).</p>	<p>The findings indicate there are no specific concerns with the proposed location with respect to air quality and odour.</p>
<b>Archaeology</b> 	<p>A Stage 1 archaeological assessment was conducted by Archaeological Research Associates Ltd. The geography, history, previous archaeological fieldwork and current condition of Knox Farm was reviewed and a property inspection was completed.</p>	<p>There are areas of archaeological potential and areas of no archaeological potential on Knox Farm. Areas of archaeological potential that could be impacted by the project will require a Stage 2 archaeological assessment.</p>



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# Suitability Assessment of Knox Farm



Technical Discipline	Overview of Assessment	Findings
<b>Cultural Heritage</b> 	<p>A Cultural Heritage Assessment Report was completed by Archaeological Research Associates Ltd. A review of current legislation and policy was completed as well as completing historical research, consultation with the City, and a field survey.</p>	<p>No cultural heritage resources were identified within the assessed area and no concerns with the proposed Facility.</p>
<b>Hydrogeology</b> 	<p>The hydrogeological assessment included a review of geology and groundwater information, drilling to assess the soil stratigraphy and installation of monitoring wells to assess existing groundwater conditions.</p> <p>According to the Source Protection Atlas (MECP), the Proposed Site Location is located within the Cataraqui Source Protection Area and is identified to be within a Significant Groundwater Recharge Area and a Highly Vulnerable Area. The City of Kingston Official Plan indicates the site is on a potential/inferred karst topography.</p>	<p>The shallow groundwater quality and the soil quality are not anticipated to impact the development of the proposed Facility with best management practices in place to minimize the risk to groundwater.</p> <p>Further studies are needed to determine if surface karst formations exist and confirm the suitability of groundwater supply.</p>



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# Suitability Assessment of Knox Farm






Technical Discipline	Overview of Assessment	Findings
<p><b>Natural Environment</b></p> 	<p>A desktop review of mapping, aerial imagery and other background information was conducted to screen the potential for natural heritage features and species-at-risk (SAR) habitat. A preliminary field investigation was completed to verify the desktop findings and see if there were additional features and habitat observed.</p> <p>The majority of the Proposed Site Location contained areas of low constraint, generally indicating a suitable location. Several confirmed and potentially sensitive natural heritage features indicate the majority of Knox Farm contains areas of medium constraint including within the boundaries of and adjacent to the Proposed Site Location.</p>	<p>Additional studies to determine the presence / absence of SAR, SAR habitat and Significant Wildlife Habitat within and adjacent to the Proposed Site Location are recommended. An environmental impact assessment may be required.</p>
<p><b>Noise</b></p> 	<p>The potential for impact of the Facility on the acoustic environment in the Knox Farm area was evaluated by completing a D-6 Compatibility Assessment. A Background Noise Assessment confirmed that the ambient (background) noise environment in the area is best characterized as having qualities of a Class 1 area - where the background noise is dominated by human activity.</p>	<p>The Knox Farm location is considered suitable from a noise perspective.</p>





# Suitability Assessment of Knox Farm



Technical Discipline	Overview of Assessment	Findings
<p><b>Site Servicing</b></p> 	<p>A review of potential site servicing options was completed that considered the site grading, utilities and storm sewer, sanitary and water servicing.</p>	<p>Due to the location of the site outside of the City's urban boundary, servicing opportunities other than municipal infrastructure will be required. Water and wastewater servicing through trucking may be feasible depending on the volumes required for the proposed Facility.</p> <p>Utility servicing is not expected to be an issue and the existing grading is not expected to negatively impact the Facility.</p>
<p><b>Stormwater Management</b></p> 	<p>A preliminary examination of the existing topographic and hydrologic characteristics of the site was completed. Background information was reviewed and a site visit was completed to understand overall site grading and drainage.</p> <p>Available information indicates that the Proposed Site Location has undergone significant alteration in the past – initially for agricultural purposes, then a dredgate management facility together with the continued use of the adjacent lands at the City's snow management facility.</p>	<p>The assessment did not identify significant issues or constraints within the Proposed Site Location that impacts the suitability of the site.</p> <p>A hydrology assessment and a stormwater management servicing strategy will be completed to identify and mitigate potential impacts on surface water resources.</p>
<p><b>Traffic</b></p> 	<p>The existing road network, traffic volumes, pedestrian and cycling activity and intersection operations were assessed to determine the potential impact the Facility would have. An initial review of potential site access options was completed.</p>	<p>The total forecast traffic volumes accessing the site have not yet been confirmed; however, the road network is capable of accommodating additional traffic volumes. The location of the site access will be finalized in future stages of the project.</p>



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# Next Steps



- Engaging with anaerobic digestion technology vendors to inform them of the Project and seek feedback on the ability to develop the proposed Facility on Knox Farm.
- If evaluation of the proposed facility at Knox Farm continues, the MCEA process will be formally initiated and will include Phases 3 and 4 of the MCEA.
- Phase 3 will involve developing two different Facility design concepts.
- Technical assessments will be completed to estimate the potential impacts of the Facility and ways to reduce potential impacts.
- A second Public Drop-In Session will be held.
- The MCEA will be documented in the Environmental Study Report which will be available for public review for 30 days.



## MCEA Phase 5: Project Implementation (targeting 2025 – 2030)



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## Get Involved!



### Ask Questions:

- Go to our project website:  
[Kingston Regional Biosolids and Biogas Facility Website](#)
- Send an email to join our project contact list for the anticipated next phase of the project: [ukbiogasfacility@dillon.ca](mailto:ukbiogasfacility@dillon.ca)

### Fill the Survey!

[Survey Link](#)

### Project Team Contact Information

**Lauren Scanlan, P.Eng.**  
Utilities Engineer, Utilities Kingston  
Email: [lscanlan@utilitieskingston.com](mailto:lscanlan@utilitieskingston.com)  
Phone: (613) 546-1181, ext. 2462

**Paul MacLatchy, P.Eng.**  
Environment Director, City of Kingston  
Email: [PMacLatchy@cityofkingston.ca](mailto:PMacLatchy@cityofkingston.ca)  
Phone: (613) 546-4291, ext. 1226

**Betsy Varghese, P.Eng.**  
Partner, Dillon Consulting Limited  
Email: [bvarghese@dillon.ca](mailto:bvarghese@dillon.ca)  
Phone: (416) 229-4647, ext. 2326



Facebook



Twitter



Youtube



LinkedIn





Add your comments or questions about the project here:



A large, empty rectangular box with a blue border, intended for users to add comments or questions about the project.



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## **Appendix F-5**

### **Public Drop-In Session Survey Results**



**PUBLIC SURVEY**  
**Kingston Regional Biosolids & Biogas Facility**  
**March 2023**

Utilities Kingston is considering building a Regional Biosolids and Biogas Facility at a City-owned property called Knox Farm (near Highway 401 and Perth Road). The intent of the proposed Facility is to process wastes from the City of Kingston's wastewater treatment plants and "Green Bin" organics collection program to produce a renewable natural gas (biogas) and other beneficial resources that support Kingston's goals for climate leadership. A Public Drop In Session for the proposed Facility was held on March 28, 2023, where information about the proposed facility and site was shared. A copy of the display boards is available on the [project website](http://www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility) (www.utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility) that you can review before taking this survey.

**Your input is important to this project.**

The feedback received will contribute to understanding the suitability of developing the proposed facility at the Knox Farm location, before the project is formally initiated following the Municipal Class Environmental Assessment process. Please take 10 minutes to answer the following questions. The survey will be open until April 14, 2023. Information will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

**PART 1 - PROJECT INFORMATION**

**1. Before this survey, do you recall hearing about Utilities Kingston's plans to develop a Regional Biogas and Biosolids Facility?**

- Yes
- No
- Maybe/Do not remember

**Key Definitions:**

**Biosolids** are the treated solid organic materials that are removed from our water after we flush it down the drain. Biosolids are currently processed at one of two wastewater treatment facilities that are operated by Utilities Kingston, one of which requires solids train upgrades to meet future needs.

**Green Bin** materials are the food and organic wastes that are accepted in the City's Green Bin program. Green Bin materials are currently processed into compost by a private company.

**Biogas** is a renewable energy source that is created when organic matter breaks down and releases gasses including methane and carbon dioxide. When properly treated, biogas can be used in place of petroleum natural gas.

The proposed facility will process wastes from both the City's wastewater treatment plants and the Green Bin organics collection program, to produce biogas and other beneficial resources like an organic fertilizer or soil amendment product.

**2. What would you consider to be a priority for a facility like this? (pick the top three)**

- Environmental sustainability
- Creation of jobs
- Innovation / Technology
- Being a Regional leader
- Revenue
- Other: \_\_\_\_\_

**3. What are the top three benefits that matter most to you for a facility like this? (pick the top three)**

- Reducing greenhouse gas emissions
- Creating a renewable energy source
- Managing our own organic wastes
- Being a Regional facility
- Being a leader in climate change action
- Creating jobs
- Other (please describe briefly) \_\_\_\_\_

**4. What are the top three concerns that matter most to you for a facility like this? (pick the top three)**

- Traffic
- Noise
- Odour
- Cost to taxpayers
- Accepting non-City managed organic wastes (e.g., local businesses and institutions, neighbouring municipalities)
- Impact to recreational trails
- Impact to the environment (e.g. wildlife, water quality)
- Other (please describe briefly) \_\_\_\_\_

**PART 2 - KNOX FARM**

**5. The proposed site location of the proposed facility is at Knox Farm, a municipally-owned property and vacant site located in the City of Kingston. The proposed site is north of Highway 401, with frontage to the west side of Perth Road. Do you support the location of the proposed site?**

- Yes
- No
- Unsure at this time



6. Please briefly share why you selected your answer to the previous question (Question 5)

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7. Do you have any additional comments or questions?

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### **PART 3 - ABOUT YOU**

8. How would you like to participate or be informed of future engagement opportunities for this project (select all that apply)?

- Email
- Utilities Kingston website
- Social media
- Newspaper
- Virtual meetings
- In-person Public open house
- Other (please specify) \_\_\_\_\_

9. Do you belong to any organization or association that would have an interest in the project?

- Yes
- No

If yes, please specify which organization or association

---

10. Are you interested in being added to the project contact list? (Note: The contact list will be used during the Municipal Class Environmental Assessment for public consultation efforts).

- Yes
- No

If yes, please provide your email address

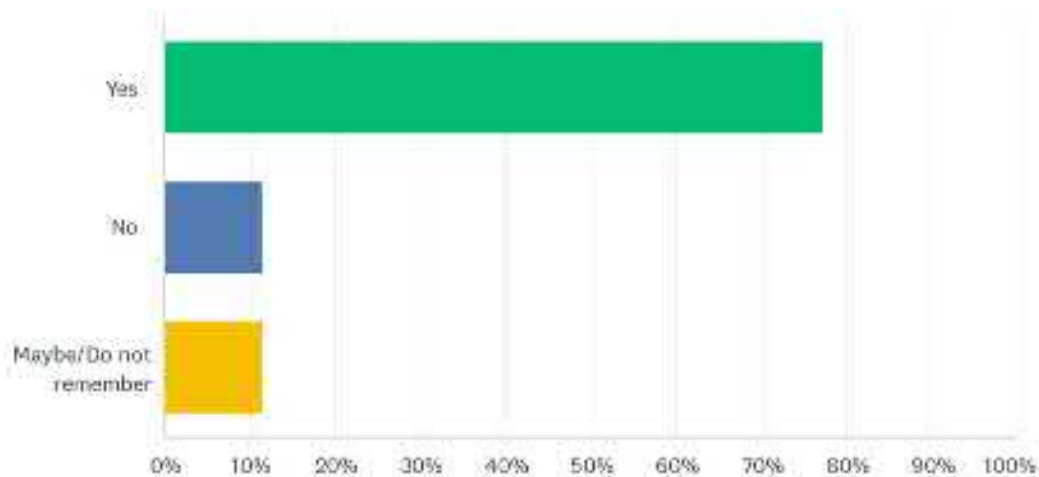
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11. (Optional) Please provide your postal code (Note: Postal Code information is only used for determining the general location of interested parties to use in public consultation planning efforts).

---

### Q1 Before this survey, do you recall hearing about Utilities Kingston's plans to develop a Regional Biogas and Biosolids Facility?

Answered: 35 Skipped: 0

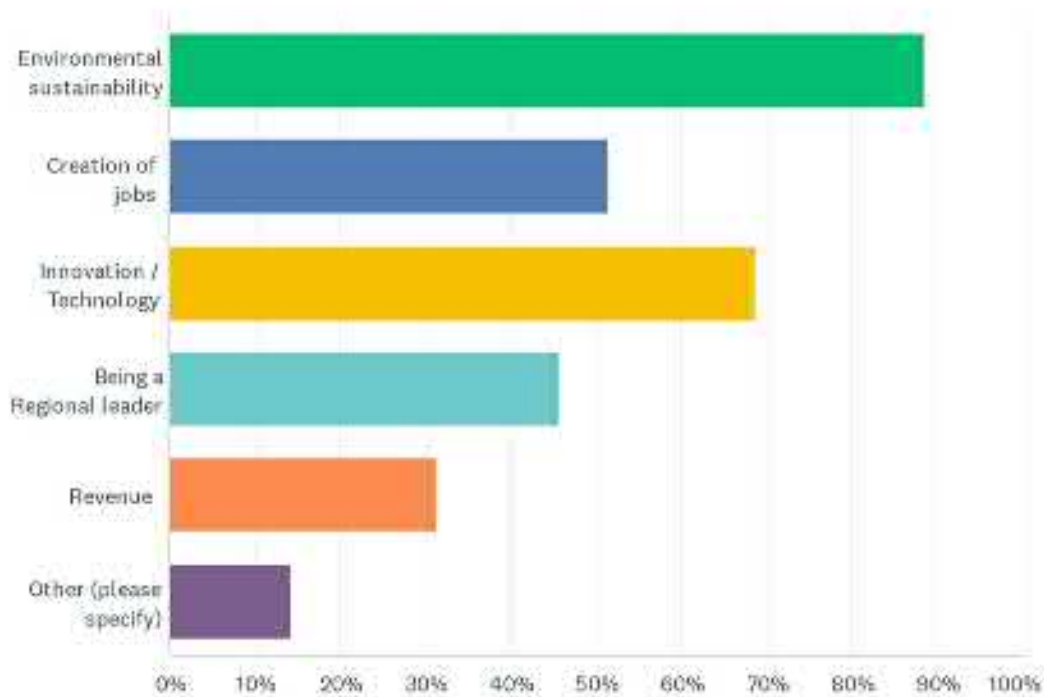


ANSWER CHOICES	RESPONSES	
Yes	77.14%	27
No	11.43%	4
Maybe/Do not remember	11.43%	4
<b>TOTAL</b>		<b>35</b>



## Q2 What would you consider to be a priority for a facility like this? (pick the top three)

Answered: 35 Skipped: 0



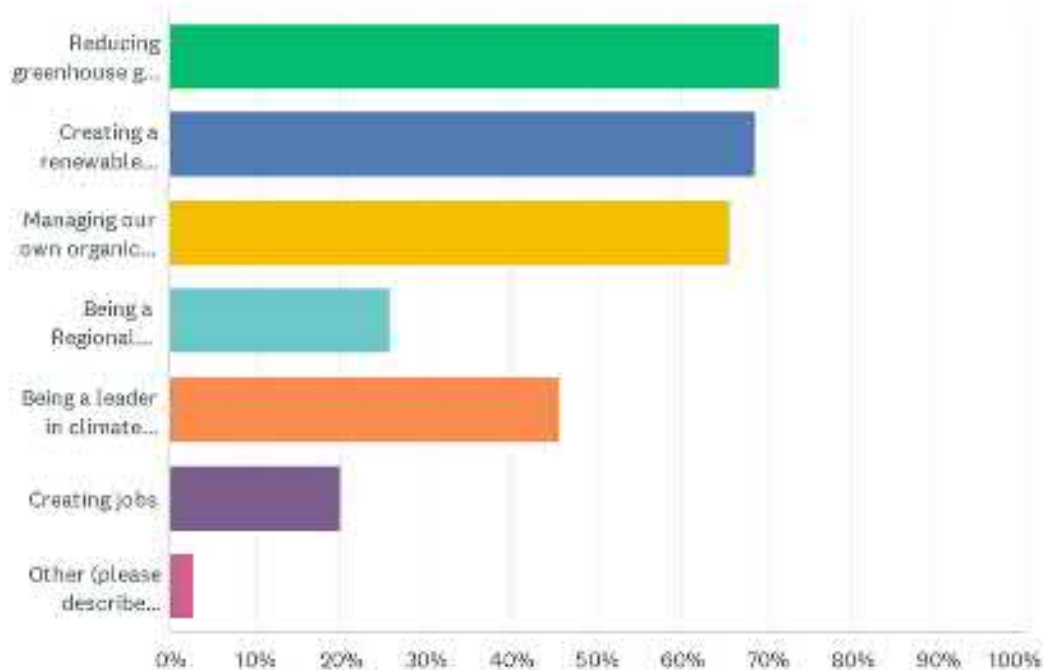
ANSWER CHOICES	RESPONSES
Environmental sustainability	88.57% 31
Creation of jobs	51.43% 18
Innovation / Technology	68.57% 24
Being a Regional leader	45.71% 16
Revenue	31.43% 11
Other (please specify)	14.29% 5
Total Respondents: 35	

### Other (please specify):

- Acceptance of Biosolids from outside municipalities
- Quality of end product
- Environmentally responsible
- Cost to taxpayers
- Resource Circularity

### Q3 What are the top three benefits that matter most to you, for a facility like this? (pick the top three)

Answered: 35 Skipped: 0



ANSWER CHOICES	RESPONSES	
Reducing greenhouse gas emissions	71.43%	25
Creating a renewable energy source	68.57%	24
Managing our own organic wastes	65.71%	23
Being a Regional facility	25.71%	9
Being a leader in climate change action	45.71%	16
Creating jobs	20.00%	7
Other (please describe briefly)	2.86%	1
Total Respondents: 35		

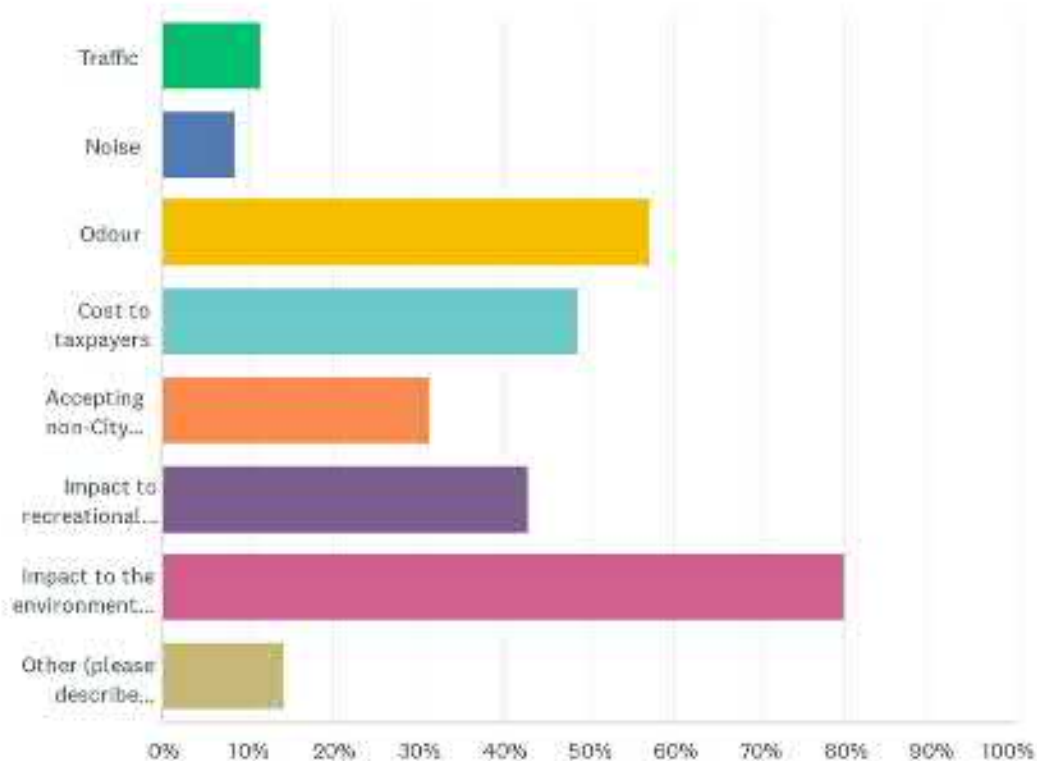
**Other (please describe briefly):**

-Raising public awareness



### Q4 What are the top three concerns that matter most to you, for a facility like this? (pick the top three)

Answered: 35 Skipped: 0



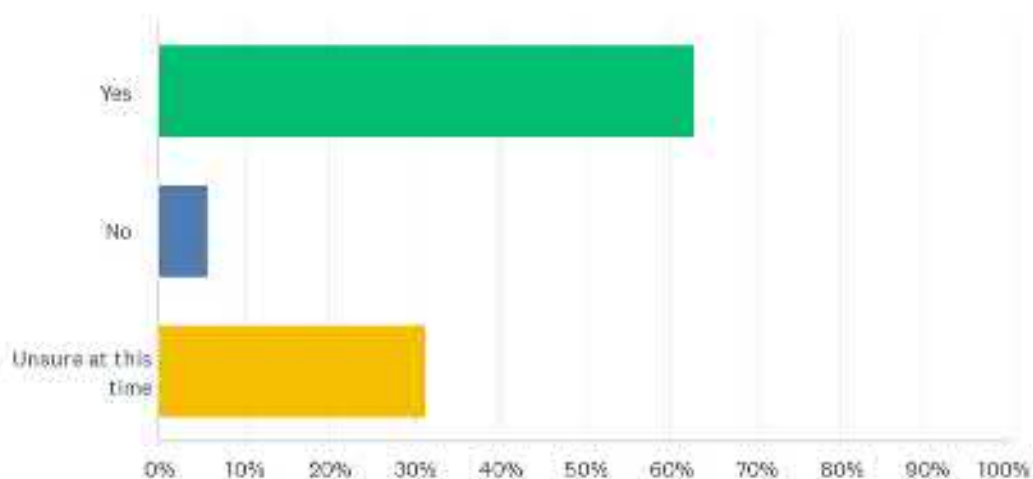
ANSWER CHOICES	RESPONSES	
Traffic	11.43%	4
Noise	8.57%	3
Odour	57.14%	20
Cost to taxpayers	48.57%	17
Accepting non-City managed organic wastes (e.g., local businesses and institutions, neighbouring municipalities)	31.43%	11
Impact to recreational trails	42.86%	15
Impact to the environment (e.g. wildlife, water quality)	80.00%	28
Other (please describe briefly)	14.29%	5
Total Respondents: 35		

**Other (please describe briefly):**

- Can it be run efficiently under commercial competitive conditions?
- That this facility does not function as intended
- Don't have any concerns; we need infrastructure asap to make this happen
- I have no concerns here
- Noise and odour

Q5 The proposed site location of the proposed facility is at Knox Farm, a municipally-owned property and vacant site located in the City of Kingston. The proposed site is north of Highway 401, with frontage to the west side of Perth Road. Do you support the location of the proposed site?

Answered: 35 Skipped: 0



ANSWER CHOICES	RESPONSES	
Yes	62.86%	22
No	5.71%	2
Unsure at this time	31.43%	11
TOTAL		35



## Q6 Please briefly share why you selected your answer to the previous question (Question 5)

Answered: 28 Skipped: 7

- Because its an underused city owned property that should be
- I would need to see the actual location and what is adjacent
- Support a regional facility that accepts biosolids
- Close enough to the City, but still on the outskirts (sort of). Great location for this project
- Ideal location, away from the City, North of Highway 401
- What are the other options?
- Cataraqi Conservation is supportive of the project provided impacts to the adjacent Conservation Area are avoided and/or mitigated as necessary. We will continue to review information as it becomes available and will keep our Board informed as the project progresses
- Concerned for what it would do to Little Cat creek CA trails
- The location has an easy access
- Proximity to utility services and the 401
- Concerned about the land being taken away from the conservation area
- Excellent location, with minimal impact to the surrounding property owners
- Because it is already City owned and will not result in prime greenspace being converted for an non-green space use
- The location is convenient
- Farther from town
- Its land that is not used and close to other industrial type sites. This assumes there would no odours that would travel
- We need the local infrastructure asap
- Proximity of the Little Cataraqi Creek might be a problem, but I believe this can be handled well
- Not sure what's around that area
- Little Cataraqi creek conservation area should remain as natural as possible
- The proposed location seems far enough away from the trail and conservation area but unsure how financially feasible it would be to provide the site with municipal water/sewer service
- Convenient location is a plus and being already owned by the City helps. Concerned about possible contamination of nearby conservation over watershed
- Close to City, reduce transport costs
- It seems to be the available sizable pot of land to handle the flow of usable bio wastes and reusable materials for fuel needs
- Unsure of potential environmental impacts with groundwater and surrounding natural environment
- Unsure of locations infringement on natural space intended for conservation and education in biodiversity
- Because experts identified it as a feasible location
- City owned close to 401

## Q7 Do you have any additional comments or questions?

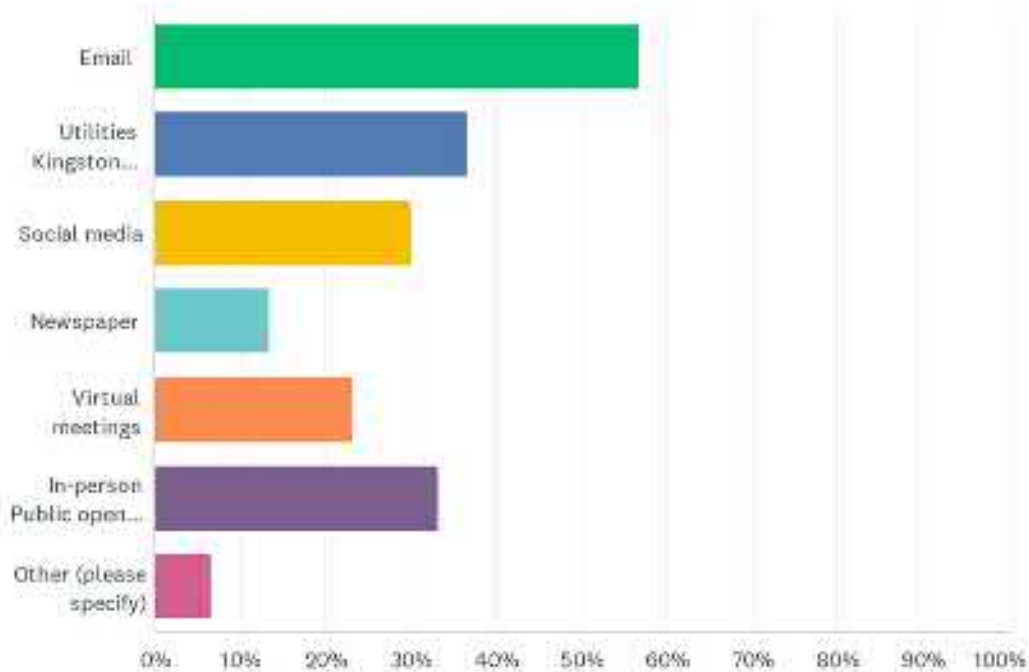
Answered: 11 Skipped: 24

- Thank you for embarking on this project
- Use Net Zero Design and operation approach for its development
- No
- Thank you for the continued engagement
- Close to Little Cat, but the plant is not managing toxic substances.
- Who is the UK contact?
- The key to success is transparency. There should be online information available with monitoring data available in real time, once the operation commences
- No
- Is there any current ideas of an industrial or other facility nearby to use biogas that is produced
- Will existing facilities be retrofitted to meet carbon neutral goals with the assistance of this new facility?
- No



### Q8 How would you like to participate or be informed of future engagement opportunities for this project (select all that apply)?

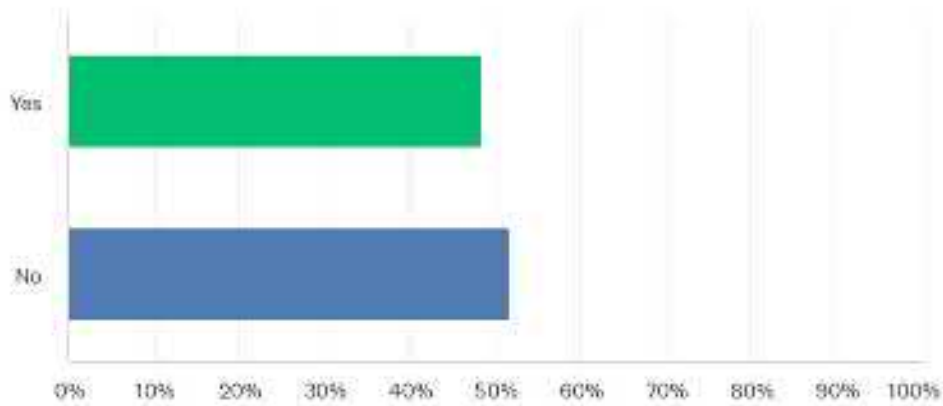
Answered: 30 Skipped: 5



ANSWER CHOICES	RESPONSES	
Email	56.67%	17
Utilities Kingston website	36.67%	11
Social media	30.00%	9
Newspaper	13.33%	4
Virtual meetings	23.33%	7
In-person Public open house	33.33%	10
Other (please specify)	6.67%	2
Total Respondents: 30		

### Q9 Do you belong to any organization or association that would have an interest in the project?

Answered: 33 Skipped: 2

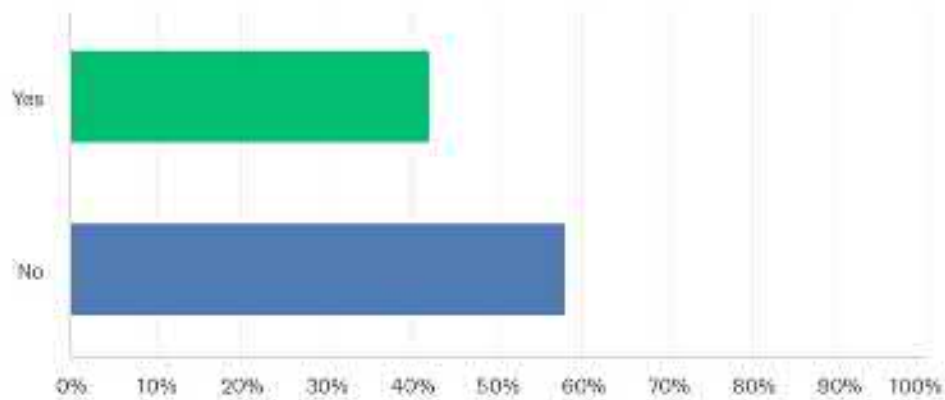


ANSWER CHOICES	RESPONSES	
Yes	48.48%	16
No	51.52%	17
<b>TOTAL</b>		<b>33</b>



**Q10 Are you interested in being added to the project contact list? (Note: The contact list will be used during the Municipal Class Environmental Assessment for public consultation efforts)**

Answered: 31 Skipped: 4



ANSWER CHOICES	RESPONSES	
Yes	41.94%	13
No	58.06%	18
<b>TOTAL</b>		<b>31</b>

**Q11 (Optional) Please provide your postal code (Note: Postal Code information is only used for determining the general location of interested parties to use in public consultation planning efforts).**

Answered: 25 Skipped: 10

Redacted



## **Appendix F-6**

### **Public Information Centre Boards**

# Welcome!



## Kingston Regional Biosolids & Biogas Facility

Public Information Centre

March 27, 2024

**This way!**



**(Walk through the doors to your right)**



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# Welcome!



## Purpose of Public Information Centre (PIC)

- Learn about the objectives of this Project and how this project supports Kingston's commitment to climate leadership
- Learn about the proposed facility and location
- Learn about the proposed facility design and how it was developed
- Complete a survey about the proposed Project
- Provide input and remain informed

## Project Purpose

**Utilities Kingston and the City of Kingston are taking steps to reduce the overall Greenhouse Gas emissions footprint of their operations and the community.**

- Utilities Kingston is investigating the feasibility of developing a combined wastewater biosolids and food waste processing facility at Knox Farm, a municipally-owned property located off Perth Road.
- The facility would process wastes from the City's wastewater treatment plants and "Green Bin" program to produce a renewable natural gas (RNG) (biogas) and other beneficial resources.
- A Municipal Class Environmental Assessment (Class EA) is being completed to support the planning and approval process for this facility.



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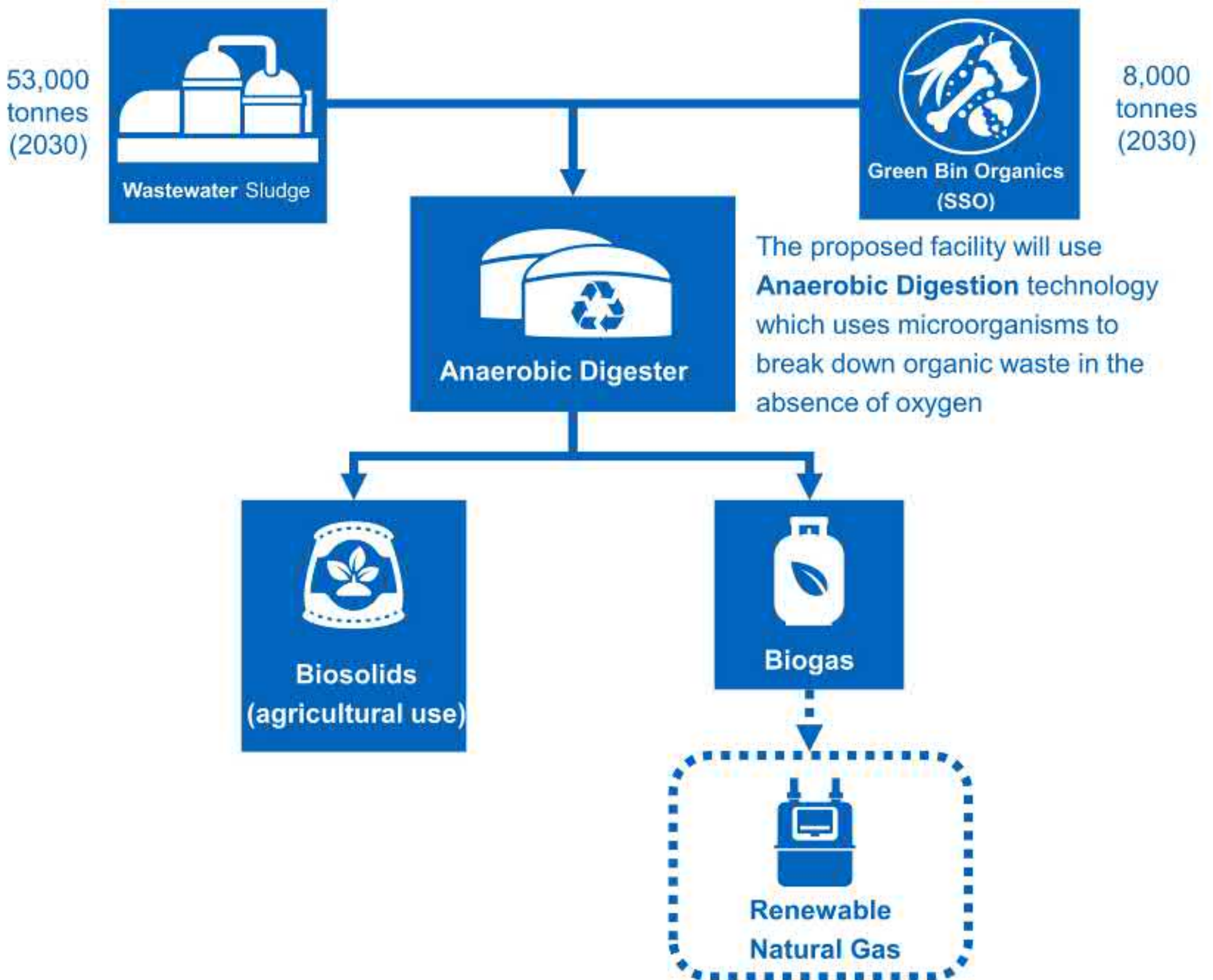
# The Proposed Facility

**Biosolids** are the treated organic materials that are removed from our water after we flush it down the drain.

- Biosolids are produced from wastewater sludge, generated by two wastewater treatment plants operated by Utilities Kingston, one of which requires upgrades to meet future needs.

**Source-Separated Organics (SSO)** are the food and organic wastes that are currently accepted in the City's Green Bin program.

- SSO collected at the curbside are currently processed into compost by a private company hired by the City.





# Municipal Class Environmental Assessment (MCEA)

Phases 1 and 2



## Master Plan for Enhanced Biosolids Management & Biogas Utilization:

The Master Plan was completed in 2020 and followed the MCEA process and included:

- **Phase 1 – Problem / Opportunity Statement:** to establish a long-term approach to biosolids management at all WWTPs, while addressing capacity constraints at the Cataraqui Bay WWTP, and considering opportunities to enhance biogas production.
- **Phase 2 – Alternative Solutions and Preferred Alternative:** five alternative solutions were considered including maintaining the status quo, upgrades at existing wastewater facilities, and construction of a new facility at the City-owned Knox Farm property.

## Reconfirmation of MCEA Phases 1 and 2:

The Project resumed in August 2022 to reconfirm Phases 1 and 2 from the 2020 Master Plan:

- **Phase 1 – Reconfirmed Problem/Opportunity:** Reconfirmed that the opportunity considers:
  - Use of wastes as resources within the context of a circular economy;
  - Aligning with provincial government interest in managing waste organics more effectively and eliminating landfilling;
  - Opportunities to generate and use renewable natural gas to reduce the City's carbon footprint; and,
  - Use of an existing City-owned site (Knox Farm) for the potential development of a regional Facility that processes City-managed organic wastes and provides an opportunity to process organic waste from other sources in and around the City of Kingston.
- **Phase 2 – Reconfirmation of Preferred Solution:** A review of the five alternative solutions presented in the Master Plan were reviewed and the preferred solution to build a new facility at Knox Farm was reconfirmed.



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# The Proposed Location

## Knox Farm:

- Municipally-owned 75-hectare property and vacant site.
- Located off Perth Road, north of Highway 401 and Division Street in the City of Kingston.
- South of Little Cataraqui Creek Conservation Area and the Cataraqui Region Conservation Authority.
- Outside of the City of Kingston's Urban Boundary.
- Proposed Location: Approximately 9.3 hectares which was formerly used for sediment dewatering ponds (now decommissioned).
- The area east of the proposed site location is used by the City for seasonal snow storage.





# Summary of Technical Assessment of Knox Farm



Technical Discipline		Summary	
Land Use			An amendment to the Official Plan and/or Zoning Bylaw may be required
Air Quality			No concerns identified
Archaeology			A Stage 2 Archaeology Assessment is required (completed)
Cultural Heritage			No concerns identified
Hydrogeology			No concerns identified
Natural Environment			No concerns identified
Noise			No concerns identified
Site Servicing			Additional options for water and wastewater management to be considered
Stormwater Management			No concerns identified
Traffic			No concerns identified

No major barriers were identified for Knox Farm as a potential location for the proposed facility



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# Municipal Class Environmental Assessment Phases 3, 4 and 5



## Phase 3

Identification and Evaluation of Alternative Design Concepts

### Work completed to-date as part of Phase 3 of the MCEA:

- Identified two Alternative Design Concepts;
- Conducted a comparative evaluation of the two Design Concepts and identified a Preliminary Preferred Design Concept
- Identified potential impacts from the Preliminary Preferred Design Concept and proposed mitigation.

### Following this Public Information Centre the following will be undertaken:

- Confirmation of the Preferred Design Concept based on feedback received during public consultation; and
- Confirmation of potential effects and proposed mitigation for the Preferred Design Concept.

## Phase 4

Environmental Study Report

The MCEA process and conclusions will be documented in the Environmental Study Report which will be available for public review for 30 days.



If the project is recommended to proceed, MCEA Phase 5: Project Implementation will be undertaken between 2025 and 2030



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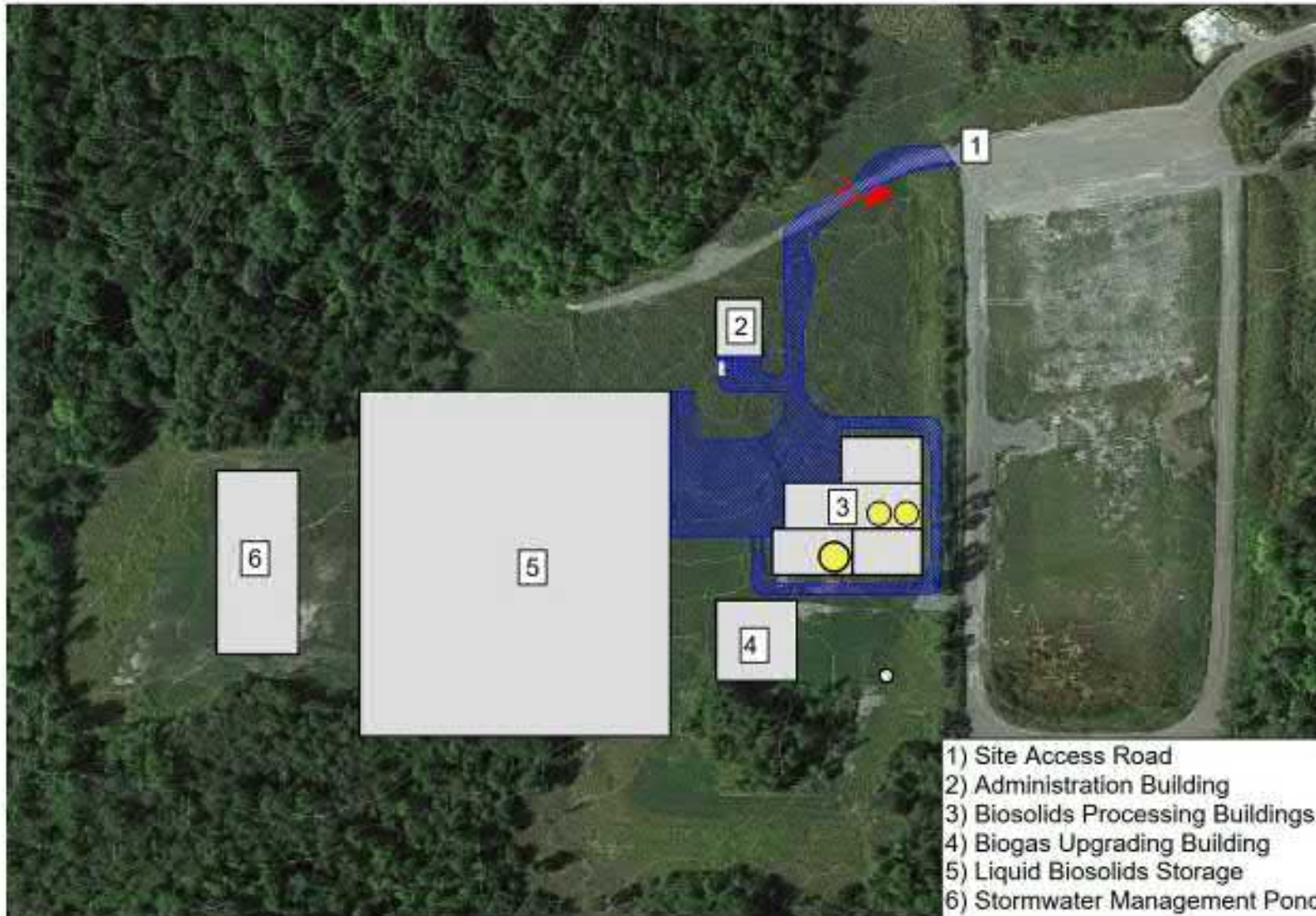
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## Alternative Design Concept #1



- Focus is on maximizing biogas generation
- The feedstock is pre-treated to increase biogas production
- A liquid biosolids product is produced for agricultural use

## Alternative Design Concept #2

- Focus is on minimizing utility demands and residual waste volumes
- Does not include feedstock pre-treatment. Less biogas is produced
- A solid biosolids product is produced by removing water from the product prior to agricultural use





# Evaluation of Alternative Design Concepts

The two Alternative Design Concepts were assessed and compared using the following set of evaluation criteria and indicators to understand the potential impacts. The evaluation considered the following criteria:

## Natural Environment

- vegetation and trees
- terrestrial and aquatic habitat & wildlife
- habitat of Species at Risk

## Physical Environment

- groundwater resources and source water protection areas
- surface water and area drainage
- emission of greenhouse gases (GHGs), carbon removal, carbon storage/sink (e.g., trees and vegetation), and trucking-related GHG impacts
- adaptability to climate change effects
- noise and vibration levels
- air quality and odour emissions

## Socio-economic Environment

- conformity to and consistency with municipal and provincial policies
- community nuisance impacts during construction and operations

## Cultural Environment

- built heritage resources and/or cultural heritage landscapes
- archaeological resources
- traditional land and resource use and treaty rights

## Financial Factors

- estimated capital costs
- estimated operating & maintenance costs
- estimated lifecycle costs

## Technical Factors

- Proven technology, complexities around construction, process and maintenance
- quantity of biogas production
- ability for facility to be expanded
- process wastewater treatment requirements
- nutrient content of process end products
- amount of residuals requiring management



# Evaluation of Alternative Design Concepts Natural Environment



**Baseline information on the natural environment was collected through a combination of desktop background review and field investigation.**

**Design Concept 2 was determined to have slightly less natural environment impact than Design Concept 1.**

Similarities	Differences
<ul style="list-style-type: none"> <li>Both design concepts propose minor amount of tree removal.</li> <li>Neither concept is anticipated to have potential impacts to aquatic habitat &amp; wildlife.</li> <li>Neither concept will remove Species at Risk (SAR) habitat.</li> <li>Both concepts have the potential for indirect impacts (e.g., noise, light, vibration, and human presence) to nearby SAR and SAR habitat.</li> </ul>	<ul style="list-style-type: none"> <li>Design Concept #1 occupies a larger footprint resulting in more shrub and meadow vegetation removal and associated removal of more potential migratory bird habitat than Design Concept #2.</li> <li>Design Concept #1 occurs in closer proximity to forest habitat which may increase risk of indirect impacts (e.g., noise, light, vibration, and human presence) to nearby wildlife and wildlife habitat.</li> </ul>

**The potential impacts of both options are considered minimal and mitigatable.**

### Anticipated Potential Effects:

- Temporary loss or alteration of vegetation during construction.
- Temporary alteration of wildlife habitat and/or disruption of wildlife movement during construction.
- Direct impacts to SAR habitat are not anticipated but potential for operational indirect impacts (e.g., noise, light, vibration, human presence) to affect nearby potential SAR and SAR habitat that are located near the Project footprint.

### Anticipated Mitigation Measures:

- Implement best practice protocols / measures for trees and for wildlife protection.
- Minimize the construction area to reduce the amount of vegetation affected.
- Limit use of lighting, where possible.
- Incorporate landscape planting of native species along Project footprint to provide a buffer for woodland areas where operational indirect impacts are anticipated.



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# Evaluation of Alternative Design Concepts

## Physical Environment



**Baseline information on the physical environment was collected to inform the assessment of potential impacts of the project on the physical environment.**

**The two Design Concepts were determined to have similar physical environment impacts.**

Similarities	Differences
<ul style="list-style-type: none"> <li>Both concepts have potential risk of spills.</li> <li>Both concepts are proposed within Significant Groundwater Recharge Areas and partially within Highly Vulnerable Aquifers.</li> <li>The quality and quantity of surface water are very similar and can be accommodated.</li> <li>Both concepts are anticipated to have minimal impacts from climate change effects.</li> <li>Both concepts can meet applicable noise limits. No significant sources of vibration associated with either design concept.</li> </ul>	<ul style="list-style-type: none"> <li>Design Concept #2 is anticipated to need more water for the digestion process.</li> <li>Design Concept #1 is expected to yield more biogas production. This results in a potentially greater overall net reduction in GHGs due to replacement of community natural gas use with RNG.</li> <li>Design Concept #2 will consume less natural gas resulting in a lower magnitude of air emissions released from this source.</li> <li>Design Concept #1 requires less odour mitigation than Design Concept #2.</li> </ul>

**The potential impacts of both options are considered minimal and mitigatable.**

### Anticipated Potential Effects:

- Potential for groundwater quality impacts during construction and operation.
- Potential for impacts to surface water quality and quantity and within the receiving drainage area.
- Potential for noise impacts during construction and operation.
- Potential for vibration during construction.

### Anticipated Mitigation Measures:

- Develop and implement a stormwater management strategy to minimize impacts to surface water resources and satisfy regulations.
- Develop and implement an erosion and sediment control plan to reduce construction related impacts to the receiving drainage area.
- Air quality impacts associated with construction activities will be minimized through the development and implementation of air quality / fugitive dust best management practices plans.
- Inspection / monitoring of fugitive dust releases will be conducted during construction to ensure mitigation measures are effective or to identify periods when additional mitigation needs to be implemented.
- Noise impacts from the Facility will comply with provincial noise limits and the City's Noise By-law.





# Evaluation of Alternative Design Concepts

## Socio-Economic Environment



**Baseline information on the socio-economic environment was collected from a review of municipal and provincial policies and from studies completed by other technical disciplines related to potential nuisance impacts.**

**The two Design Concepts were determined to have similar socio-economic environment impacts.**

Similarities	Differences
<ul style="list-style-type: none"> <li>Both concepts are generally consistent with provincial and municipal land use policies.</li> <li>Both concepts may require a zoning bylaw amendment.</li> <li>Both concepts align with the province’s direction to consider waste as a resource, divert organics from disposal and to find opportunities to create RNG and reduce GHG emissions.</li> <li>Both concepts are relatively equal in terms of their potential nuisance impacts on the surrounding community (noise and vibration, air quality, and odour).</li> <li>Both concepts are estimated to generate low numbers of site truck trips that is expected to have a minimal effect on roadway traffic.</li> </ul>	<ul style="list-style-type: none"> <li>Design Concept #1 requires the construction of a storage lagoon closer to the Little Cataraqui Creek Conservation Area Trails resulting in somewhat larger potential for impact to trail users than Design Concept #2.</li> </ul>

**The potential impacts of both options are considered minimal and mitigatable.**

### Anticipated Potential Effects:

- Potential for noise impacts during construction and operation.
- Potential for vibration during construction.
- Temporary aesthetic disruption to Cataraqui Region Conservation Authority (CRCA) trail and trail users during construction.
- Higher traffic volumes during construction.

### Anticipated Mitigation Measures:

- Final design and equipment selection to be reviewed so that noise limits are met before construction.
- Construction to comply with noise by-law.
- Noise impacts are anticipated to be at or below existing background sound levels (e.g., Hwy 401).



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# Evaluation of Alternative Design Concepts Cultural Environment



**Baseline information on the cultural environment was collected through a Cultural Heritage Assessment Report and a Stage 1 and Stage 2 Archaeology Assessments.**

**The two Design Concepts were determined to have similar cultural environment impacts.**

Similarities	Differences
<ul style="list-style-type: none"> <li>No cultural heritage resources were identified within or adjacent to the property.</li> <li>Both design concepts have minimal potential for negative impacts to archaeological resources.</li> <li>The Stage 2 Archaeological Assessment found no significant archaeological resources within the areas of archaeological potential identified in the Stage 1 Archaeological Assessment.</li> <li>No specific concerns have been received to-date from Indigenous communities to indicate potential impacts to traditional lands and treaty rights.</li> </ul>	<ul style="list-style-type: none"> <li>No differences between the two design concepts.</li> </ul>

**The potential impacts of both options are considered minimal and mitigatable.**

### Anticipated Potential Effects:

- Disturbance of previously undiscovered archaeological resources during construction.

### Anticipated Mitigation Measures:

- If archaeological resources are discovered during construction, no further alteration of the site can occur and a licensed consultant archaeologist shall be engaged to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*.





# Evaluation of Alternative Design Concepts

## Financial Factors



Baseline information on financial factors was estimated through the Request for Information process and follow-up, consulting team experience and publicly available data.

The overall costs of the two Design Concepts are similar.

- Design Concept #1 has slightly lower capital cost.
- Design Concept #2 has slightly lower operating costs.
- Design Concept #1 has a greater potential for revenue from renewable natural gas.
- Overall costs of the two design concepts are similar.

	Design Concept #1	Design Concept #2
Capital Costs*	\$74 million	\$87 million
Annual Operating & Maintenance Costs*	\$2.6 million	\$1.2 million

\*Preliminary cost estimates are approximate and subject to change.

### Anticipated Potential Effects:

- Costs are higher than anticipated.

### Anticipated Mitigation Measures:

- Identification of cost savings opportunities at outset of detailed design.
- Value engineering exercises held during the design process identify and evaluate additional potential cost savings.
- Consideration of alternative procurement strategies that may save costs or reduce risk of future cost increases.
- Investigate funding and private partnership opportunities through a business case assessment.



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# Evaluation of Alternative Design Concepts

## Technical Factors



Baseline information on technical factors was provided through a Request for Information process, consulting team experience and publicly available data.

Design Concept #1 is technically preferred compared to Design Concept #2.

Similarities	Differences
<ul style="list-style-type: none"> <li>Both design concepts have a similar level of complexity for construction.</li> <li>Both design concepts are expected to have similar staffing requirements.</li> <li>Both design concepts are receiving the same feedstock and are assumed to have similar levels of contaminants or residuals requiring disposal.</li> <li>Both design concepts incorporate a technology that is considered proven and able to create and market finished products.</li> </ul>	<ul style="list-style-type: none"> <li>Design Concept #1 is a comparatively less complex process.</li> <li>Design Concept #1 has the potential to produce significantly more biogas.</li> <li>Design Concept #2 is anticipated to require treatment of process-generated wastewater.</li> <li>Design Concept #1 will produce a liquid biosolids product which is generally more favoured for agricultural applications.</li> </ul>

### Anticipated Potential Effects:

- Construction complexity impacting schedule, nearby residents, or costs.
- Number of points of failure, risks of downtime or increased repair costs, and/or skilled operations staff required.
- Potential land constraints, particularly for product storage, limit site expandability.
- Potential need for trucked water or substantial demand from onsite well.

### Anticipated Mitigation Measures:

- Construction staging planning.
- Investigate design strategies such as including pre-engineered structures or modular equipment to simplify onsite construction activities.
- Identify opportunities to simplify process during detailed design. Involvement of operations staff as contributors to facility design. Operations responsibilities established early in design process.
- Design equipment and storage with expansion in mind.
- Review additional process water needs and identify onsite (well) sources where possible.



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# Preliminary Comparative Evaluation Results



The evaluation results indicate that the two design concepts are very similar in terms of potential impacts noting that they are deemed minimal and mitigatable.

**Design Concept #1 is being recommended as the Preliminary Preferred Design Concept.**

Evaluation Criteria	Design Concept #1 (maximize biogas)	Design Concept #2 (minimize utility demand)
<b>Natural Environment</b> (vegetation/trees, terrestrial habitat & wildlife, aquatic habitat & wildlife, Species at Risk [SAR])	Somewhat Preferred	More Preferred
<b>Physical Environment</b> (groundwater, surface water, climate change, noise & vibration, air quality, & odour)	Somewhat Preferred	Somewhat Preferred
<b>Socio-economic Environment</b> (land use, community nuisance impacts)	Somewhat Preferred	Somewhat Preferred
<b>Cultural Environment</b> (cultural heritage resources, archaeological resources)	Most Preferred	Most Preferred
<b>Financial Factors</b> (capital, operating & maintenance, lifecycle costs)	Somewhat Preferred	Somewhat Preferred
<b>Technical Factors</b> (complexity, biogas production, servicing requirements, technology, etc.)	More Preferred	Somewhat Preferred

Design Concept #1 better aligns with the overall project goals and is being recommended due to the following factors:

- Greater contribution towards achieving the City’s climate change leadership goals;
- Not expected to generate wastewater that would require treatment at City of Kingston wastewater treatment plants;
- Higher amount of biogas generated and an associated increased revenue potential from RNG production which is assumed to be distributed into the Utilities Kingston natural gas pipeline; and
- More attractive end-use biosolids product (i.e., liquid biosolids).



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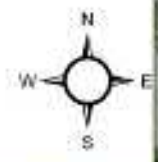




**UTILITIES KINGSTON**  
*PROPOSED SITE LOCATION (KNOX FARM)*

- Sensitive Receptors
- Residential Land Use Receptors
- Proposed Site Location
- Property Boundary
- Extent of Pavement
- Preliminary Preferred Alternative

0 0.05 0.1 0.2 Kilometers





# Greenhouse Gas (GHG) Impacts



The project has the potential to support the City of Kingston’s and Utilities Kingston’s climate leadership goals by creating a net reduction in GHGs through the production of renewable natural gas (biogas) from the anaerobic digestion (AD) of wastewater biosolids and Green Bin organic wastes. A comparison of the net GHG emissions from current wastewater and Green Bin processes to the design concepts has been initiated.

A key outcome of the project is the production of a renewable natural gas that can partially replace petroleum natural gas within Utilities Kingston distribution lines and create a net reduction in community GHG emissions.

## GHG Emissions from Current Processes

GHGs are generated by the WWTPs and Green Bin processes through:

- Natural gas combustion and electricity consumption;
- Biogas combustion (boiler, cogeneration, and flare);
- Offsite transportation of biosolids and transportation of Green Bin materials; and
- Aerobic composting of Green Bin materials and associated equipment.

## Net GHG Emissions from Preliminary Preferred Alternative (Design Concept #1)

The sources of future GHG emissions considered in the assessment include:

- Ravensview and Cataraqui Bay WWTPs (modified to remove the AD process);
- The Proposed Facility; and
- Net reduction of GHG emissions from RNG replacing conventional natural gas.

**Biogas generation is expected to result in a net reduction in GHG emissions.** Overall GHG generation and reductions are shown as annual vehicle emission equivalents below.

## Preliminary Comparison of Net GHG Emissions

Year	Preferred Alternative GHG Emissions Compared to Current Processes (Passenger Vehicle Equivalents)	Potential Reduction in CO <sub>2</sub> from RNG (Passenger Vehicle Equivalents)	Overall Difference (Passenger Vehicle Equivalents)
2023	+ 407	- 1,311	-904
2030	+ 448	- 1,442	-994
2060	+ 620	- 1,999	-1,379

(Natural Resources Canada Greenhouse Gas Equivalency Calculator)



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# Stay Informed



## Get Involved!



### Ask Questions:

- Go to our project website: <https://utilitieskingston.com/Projects/Detail/RegionalBiosolidsBiogasFacility>
- Send an email to join our project contact list for future project updates: [ukbiogasfacility@dillon.ca](mailto:ukbiogasfacility@dillon.ca)

### Fill the Survey!

<https://www.surveymonkey.com/r/7QT6NBV>

### Project Team Contact Information

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