

 **TORONTO AND REGION**
Conservation
for The Living City

July 18, 2011

CFN 44715, CFN 44716

BY MAIL AND EMAIL (colin.cassar@vaughan.ca)

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Department
2141 Major MacKenzie Dr.
Vaughan, ON
L6A 1T1

Dear Mr. Cassar:

**Re: Response to Notice of Public Information Centre
Vaughan Bowstring Arch Bridges (Humber Bridge Trail & McEwen Bridge)
Municipal Class Environmental Assessment- Schedule B
Humber River Watershed; City of Vaughan; Regional Municipality of York**

Toronto and Region Conservation Authority (TRCA) staff received notice of the upcoming Public Information Centre (PIC) scheduled for July 21, 2011. Further to TRCA correspondence dated October 18, 2010, staff have expressed interest in this project. While staff are unable to attend the meeting, please forward one copy of any handouts or display materials from this meeting for our files. Please include a digital copy of all materials as part of your submission.

Yours truly,


Brian Storozinski, M.E.S.
Acting Planner II, Environmental Assessment Planning
Planning and Development

CC: BY EMAIL

Consultant	Blair Shoniker, AECOM, (blair.shoniker@aecom.com)
TRCA	Beth Williston, Senior Manager, Environmental Assessment Planning
	Suzanne Bevan, Senior Planner, Environmental Assessment Planning
	June Little, Manager, Development, Planning & Regulation
	Gary Wilkins, Humber River Watershed Specialist
	Susan Robertson, Humber River Project Manager
	Margie Kenedy, TRCA Archaeologist
	George Leja, Real Estate Coordinator

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Member of Conservation Ontario



July 18, 2011

BY MAIL AND EMAIL (colin.cassar@vaughan.ca)

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Department
2141 Major MacKenzie Dr.
Vaughan, ON
L6A 1T1

CFN 44715, CFN 44716

CITY OF VAUGHAN ENGINEERING SERVICES DEPARTMENT RECEIVED JUL 21 2011	
REFER TO:	NOTED
CC	
FILE NAME:	

Dear Mr. Cassar:

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Member of Conservation Ontario



Shoniker, Blair

From: Nin Hernandez, Cecilia [Cecilia.NinHernandez@vaughan.ca]
Sent: Thursday, July 21, 2011 1:27 PM
To: Cassar, Colin
Cc: Brown, Erika; Palermo, Angela; Archer, Lauren
Subject: FW: Vaughan Bowstring Arch Bridges Public Information Centre

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Purple Category

Good afternoon Colin,

Cultural Services has received the Notice of Public Information Centre, Vaughan Bowstring Arch Bridges, Class Environmental Assessment Studies and would like to provide the following comments:

- The McEwen Bridge and the Humber Trail Bridge date back to the first decades of the 20th century, and they display the advances in the use of reinforced concrete in structures at the time and its resulting aesthetic from details to the overall form.
- The bridges are included in the Vaughan Inventory of Structures with Cultural Interest.
- Since they have been identified as having cultural interest, Cultural Services Staff requests that the identification of their character defining elements and attributes be included in the assessment in order for them to be protected and maintained throughout any physical maintenance intervention.
- It is also requested that the plan for the continued use of the structures comprehends a solution that is sensitive to their heritage character.
- Cultural Services requests to be included in the circulation of the final report so that it can be shared with the Heritage Vaughan Committee.

Please do not hesitate to contact me with any questions or if I can provide any additional information.

Regards,

Cecilia Nin Hernandez, B.E.D.S., M.Arch.

Cultural Heritage Coordinator
Cultural Services Division
City of Vaughan
Phone: (905) 832-8585, Ext. 8115

cecilia.nin@vaughan.ca

This e-mail, including any attachment(s), may be confidential and is intended solely for the attention and information of the named addressee(s). If you are not the intended recipient or have received this message in error, please notify me immediately by return e-mail and permanently delete the original transmission from your computer, including any attachment(s). Any unauthorized distribution, disclosure or copying of this message and attachment(s) by anyone other than the recipient is strictly prohibited.

From: Brown, Erika [mailto:Erika.Brown@aecom.com]
Sent: Wednesday, July 13, 2011 11:59 AM
To: Palermo, Angela
Subject: Vaughan Bowstring Arch Bridges Public Information Centre

Good Morning,

The City of Vaughan is undertaking a pair of separate, but simultaneous Class Environmental Assessment (EA) Studies for the proposed rehabilitation of two bowstring arch bridges over the Humber River. The purpose of this email is to inform you of the upcoming **Public Information Centre** for these two bridges and invite your participation and input throughout the EA process.

Both bowstring arch bridges are more than 90 years old and in similar states of advanced disrepair. The first bridge is located on Humber Bridge Trail, east of Highway 27, and provides vehicular access to one residential property. The McEwen Bridge, the second bridge in this study, is located just east of Huntington Road on the Kirby Road right-of-way, and is not currently open to vehicular traffic, serving instead as part of the Humber Valley Heritage Trail system.

The City of Vaughan is undertaking this study to determine how to best address the potential access issues created by the deterioration of these two bridges, and identify appropriate courses of action to improve the structural integrity of the bridges.

Both proposed bridge projects are undergoing Schedule "B" studies under the Municipal Engineers Association's (MEA) Municipal Class EA (October 2000, as amended in 2007).

Public and external agency consultation is a key component of both bowstring arch bridge studies. At this Public Information Centre, the information presented will include the existing environmental conditions, the results of the comparative evaluation of the alternative solutions, and the recommended alternative solution for each bridge.

Date: Thursday, July 21, 2011
Time: 6 p.m. - 9 p.m.
(Presentation at 7 p.m.)
Location: Kleinburg Public Library
10341 Islington Avenue (see map)
Basement Meeting Room

All project information will also be available on the project website: www.vaughan.ca/bab

Should you have any questions please do not hesitate to contact myself or either of the gentlemen indicated on the attached notice.

Kind Regards,
Erika Brown

Erika Brown, B.Sc, M.Env.
Environmental Planner
Erika.Brown@aecom.com



300 Town Centre Boulevard, Suite 300
Markham, Ontario, Canada L3R 5Z6
T 905-477-8400 ext 324 F 905-477-1456
www.aecom.com

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 Please consider the environment before printing this e-mail.



CITY OF VAUGHAN ENGINEERING SERVICES DEPARTMENT RECEIVED NOV 01 2010	
REFER TO:	NOTED
FILE NAME:	

Emergency Medical Services Branch
Community and Health Services Department

October 27, 2010

Mr. Colin Cassar, C.E.T.
Senior Engineering Assistant
Engineering Services
City of Vaughan
2141 Major MacKenzie Drive
Vaughan ON L6A 1T1

Dear Mr. Cassar:

**Re: Class Environmental Assessment (EA) Studies
Bridge 1 – Humber Bridge Trail – East of Highway 27
Second Bridge – McEwen Bridge – Huntington Road on Kirby Road**

We have received your letter informing York Region EMS that the City of Vaughan is undertaking simultaneous Class Environmental Assessment (EA) Studies for the proposed rehabilitation of the two above mentioned bridges located over the Humber River.

Please forward to us any information you may have on the following:

- Access routes
- Egress routes
- Duration of impediments
- Possible impact(s) if any, on the Emergency Services Sector

Sincerely,

Susan Wood
Deputy Chief/Manager
Emergency Medical Services Branch

SW/mcc

2746705_City of Vaughan_Humber River Bridges (E01)



Emergency Medical Services Branch
Community and Health Services Department

July 8, 2011

Mr. Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Department
2141 Major Mackenzie Drive
Vaughan ON L6A 1T1

CITY OF VAUGHAN ENGINEERING SERVICES DEPARTMENT RECEIVED	
JUL 12 2011	
REFER TO:	NOTED
cc.	<i>[Signature]</i>
FILE NAME:	

Dear Mr. Cassarl:

**Re: Bridge 1 – Humber Bridge Trail, East of Highway 27
Bridge 2 – McEwen Bridge, East of Huntington Road on Kirby Road,
right of way
Class Environmental Assessment Studies
Notice of Public Information Centre**

We received your letter informing York Region EMS of the above Class Environmental Assessment Study as well as the Public Information Centre.

Please forward to us any information you may have on the following:

- Access routes
- Egress routes
- Duration of impediments
- Possible impact(s) if any, on the Emergency Services Sector

Sincerely,

for *May Crombie*

Steve Darling
Deputy Chief/Manager
Emergency Medical Services Branch

SD/mcc

3450274_Bridges_City of Vaughan(1:01)

From: sean.peacock@bell.ca <sean.peacock@bell.ca>
To: colin.cassar@vaughan.ca <colin.cassar@vaughan.ca>; Shoniker, Blair
Cc: maureen.marshall@bell.ca <maureen.marshall@bell.ca>
Sent: Mon Oct 18 07:11:45 2010
Subject: RE:MCEWAN & HUMBER TRAIL BRIDGES

Hello.....we received notification regarding 2 Class Environmental Assessments for these bridges, Bell Canada has no comments nor are there any facility conflicts with either site.

Regards,

Sean Peacock
Network Manager
444 Millard Ave. Flr 2
Newmarket, Ontario
L3Y 2A3

tel.....905-853-4022
fax.....905-895-3872





June 29, 2011

Contact Name
Company Name
Company Address
Company Address

Dear Contact Name:

The City of Vaughan is undertaking a pair of separate, but simultaneous Class Environmental Assessment (EA) Studies for the proposed rehabilitation of two bowstring arch bridges over the Humber River. The purpose of this notice is to inform you of the upcoming **Public Information Centre** for these two bridges and invite your participation and input throughout the EA process.

Both bowstring arch bridges are more than 90 years old and in similar states of advanced disrepair. The first bridge is located on Humber Bridge Trail, east of Highway 27, and provides vehicular access to one residential property. The McEwen Bridge, the second bridge in this study, is located just east of Huntington Road on the Kirby Road right-of-way, and is not currently open to vehicular traffic, serving instead as part of the Humber Valley Heritage Trail system.

The City of Vaughan is undertaking this study to determine how to best address the potential access issues created by the deterioration of these two bridges, and identify appropriate courses of action to improve the structural integrity of the bridges.

Both proposed bridge projects are undergoing Schedule "B" studies under the Municipal Engineers Association's (MEA) Municipal Class EA (October 2000, as amended in 2007).

Public and external agency consultation is a key component of both bowstring arch bridge studies. At this Public Information Centre, the information presented will include the existing environmental conditions, the results of the comparative evaluation of the alternative solutions, and the recommended alternative solution for each bridge.

Date: Thursday, July 21, 2011
Time: 6 p.m. - 9 p.m.
(Presentation at 7 p.m.)
Location: Kleinburg Public Library
10341 Islington Avenue (see map)

Basement Meeting Room

All project information will also be available on the project website: www.vaughan.ca/bab

We are very interested in receiving any comments that you may have about either Study. Should you have any questions or comments, or wish to receive additional information regarding one or both of these projects, please contact either myself or Blair Shoniker as indicated below.

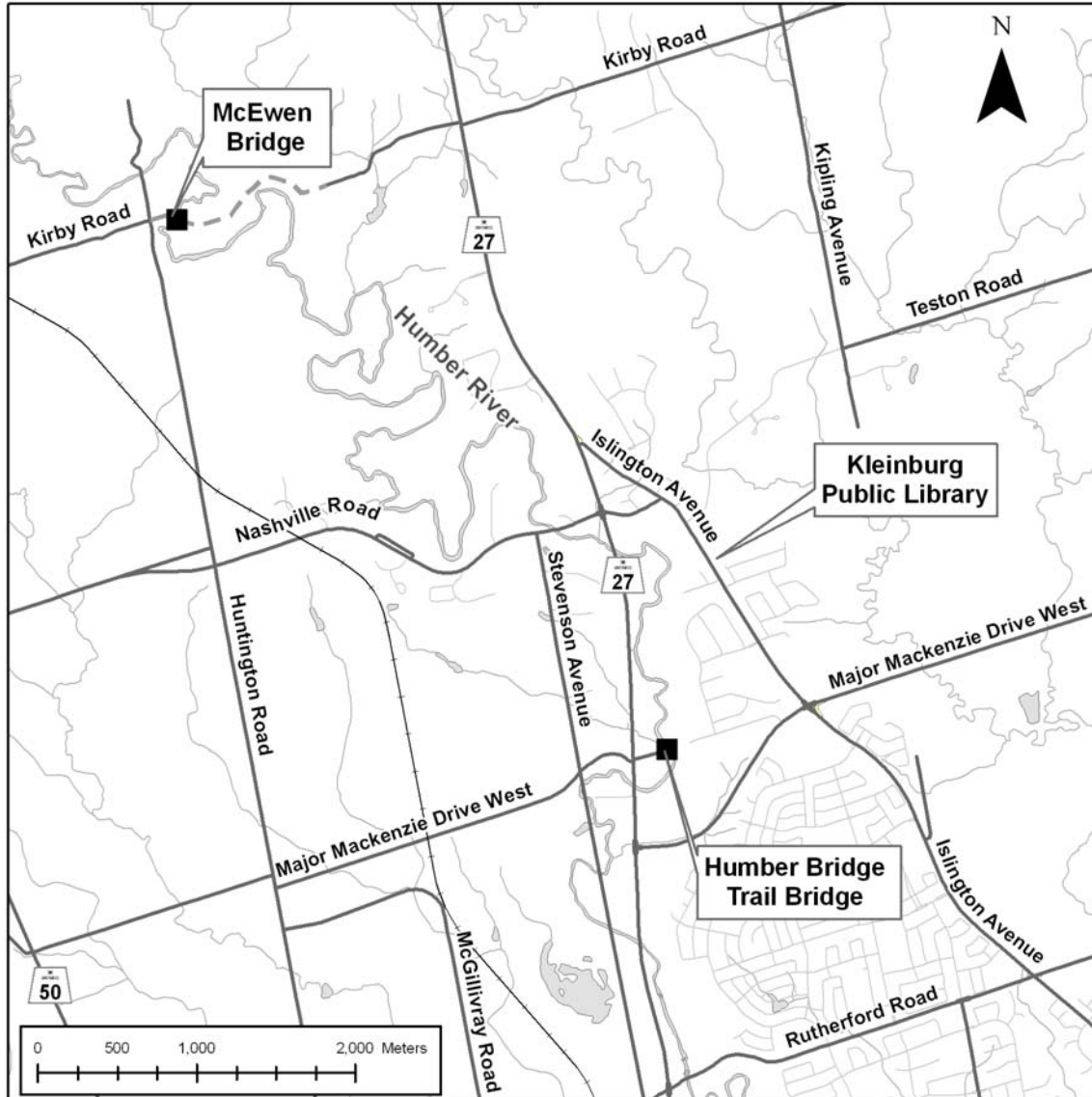
Sincerely,

A handwritten signature in black ink, appearing to read 'Colin Cassar', written in a cursive style.

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

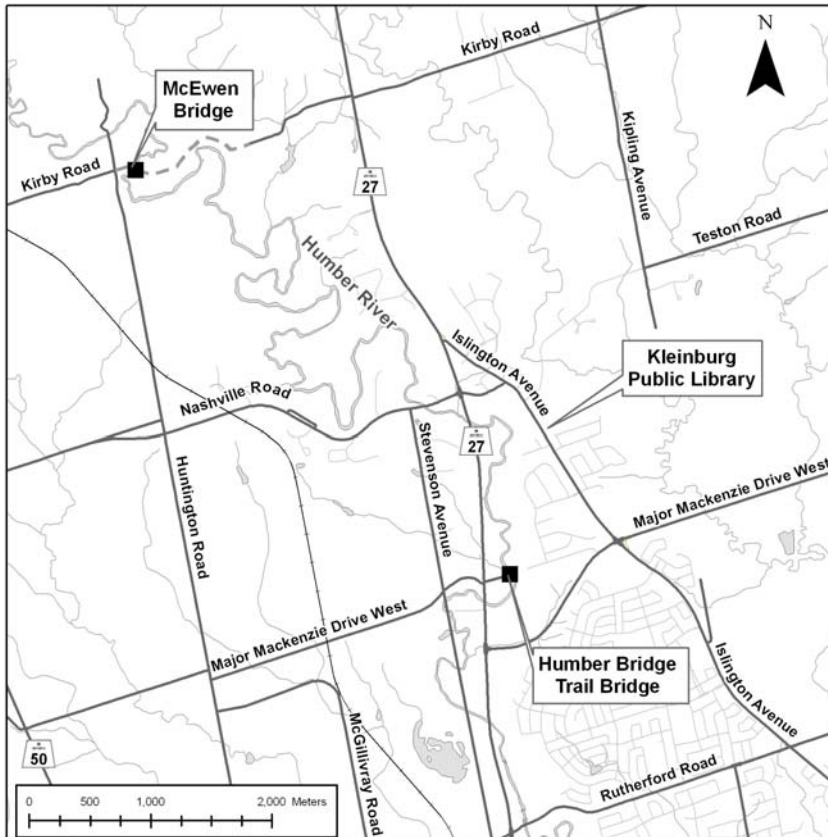
A handwritten signature in black ink, appearing to read 'Blair Shoniker', written in a cursive style.

Blair Shoniker, MA., MCIP, RPP
Consultant Project Manager
AECOM Canada Ltd.
300 Town Centre Blvd., Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400 ext. 383
Fax: 905-477-1456
Email: blair.shoniker@aecom.com



Notice of Public Information Centre Vaughan Bowstring Arch Bridges Class Environmental Assessment Studies

The City of Vaughan is undertaking a pair of separate, but simultaneous Class Environmental Assessment (EA) Studies for the proposed rehabilitation of two bowstring arch bridges over the Humber River. The purpose of this notice is to inform you of the upcoming **Public Information Centre** for these two bridges.



Background

Both bowstring arch bridges are more than 90 years old and in similar states of advanced disrepair. The first bridge is located on Humber Bridge Trail, east of Highway 27, and provides vehicular access to one residential property. The McEwen Bridge, the second bridge in this study, is located just east of Huntington Road on the Kirby Road right-of-way, and is not currently open to vehicular traffic, serving instead as part of the Humber Valley Heritage Trail system.

The Environmental Assessment Process

The City of Vaughan is undertaking this study to determine how to best address the potential access issues created by the deterioration of these two bridges, and identify appropriate courses of action to improve the structural integrity of the bridges.

Both proposed bridge projects are undergoing Schedule "B" studies under the Municipal Engineers Association's (MEA) Municipal Class EA (October 2000, as amended in 2007).

Get Involved

Public and external agency consultation is a key component of both bowstring arch bridge studies. At this Public Information Centre, the information presented will include the existing environmental conditions, the results of the comparative evaluation of the alternative solutions, and the recommended alternative solution for each bridge.

Date: Thursday, July 21, 2011

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We are interested in receiving any comments that you may have about either study. Should you have any questions or comments, or wish to receive additional information regarding one or both of these projects, please contact either of the following project team members:

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, Ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

Blair Shoniker, MA., MCIP, RPP
Consultant Project Manager
AECOM Canada Ltd.
300 Town Centre Blvd., Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400 Ext. 383
Fax: 905-477-1456
Email: blair.shoniker@aecom.com

Jack Graziosi, P. Eng., M. Eng., Director of Engineering Services

Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

This Notice dated: June 29, 2011

Vaughan Bowstring Arch Bridges Class Environmental Assessment Studies

McEwen Bridge & Humber Bridge Trail Bridge



6 - 9 p.m.
July 21, 2011
Kleinburg Public Library

Vaughan Bowstring Arch Bridges Class Environmental Assessment Overview

- The City of Vaughan is undertaking a pair of separate, but simultaneous Class Environmental Assessments (EAs) to identify a proposed rehabilitation solution for two bowstring arch bridges over the Humber River
- A third Bowstring Arch Bridge, the Langstaff Road Bridge, is also located within Vaughan, but is not part of this study
- Both bowstring arch bridges are over 90 years old and in similar states of advanced disrepair:
 - McEwen Bridge, east of Huntington Road on Kirby Road Right-Of-Way
 - Humber Bridge Trail, east of Highway 27

Environmental Assessment Overview

- In Ontario, the Environmental Assessment Act (EA Act) governs the requirements of the EA process
- The purpose of the EA Act is to promote good environmental planning through the:
 - Protection;
 - Conservation; and,
 - Wise Management of Ontario's environment.
- The intent is to predict the environmental effects of proposed undertakings before they are carried out

Environmental Assessment Overview

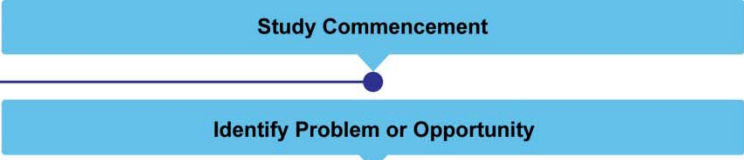
- The EA process serves several important purposes by:
 - Allowing for consultation from a variety of sources including three levels of government, stakeholders and the public;
 - Identifying potential issues and how to mitigate them prior to implementation (i.e. construction);
 - Promoting good environmental planning practices;
 - Improving community acceptance; and,
 - Allowing for transparency in the decision-making process.

Class Environmental Assessment Process

- Class EA's are a method of dealing with projects that are routine undertakings, limited in scale, have a predictable range of environmental effects and are able to implement appropriate mitigation measures
- The Vaughan Bowstring Arch Bridges Class EA is following the Municipal Engineers Association (MEA) Class EA process as a Schedule B projects
- Consultation for the Projects include:
 - Notification through newspaper advertisements, direct mailing and Posting on-site at McEwen Bridge
 - Public Information Centre (PIC)
 - Accessible website

Class EA Process

OCT. 2010
Notice of Commencement



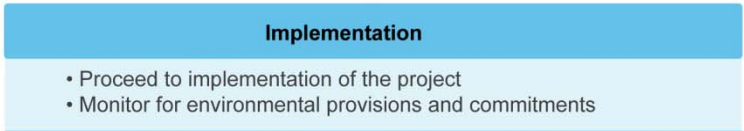
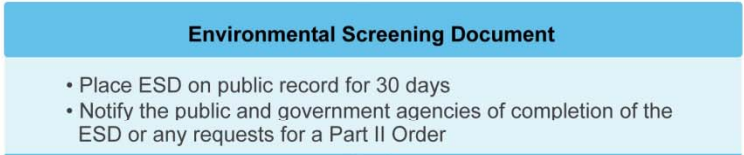
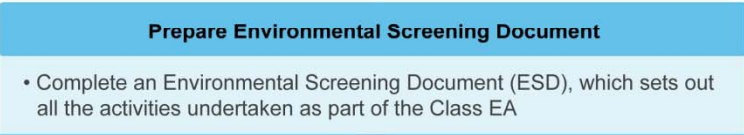
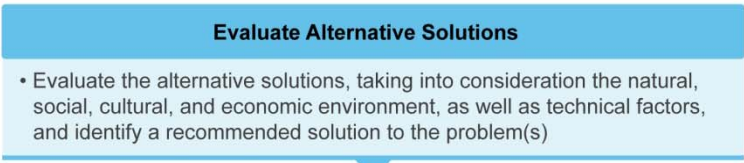
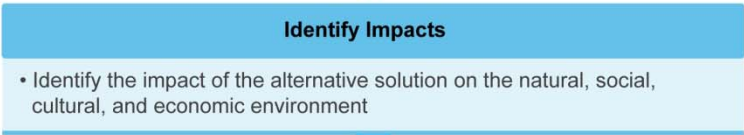
Identify Reasonable Alternative Solutions

McEwen Bridge

- Do Nothing
- Rehabilitate the Bridge
- Decommission the Bridge and Build a New Structure (Concrete Bowstring Arch Bridge; Precast Concrete Girder Bridge; or Structural Steel Girder Bridge)
- Decommission the Bridge and Replace with Pre-fab Pedestrian-only Bridge
- Decommission the Bridge

Humber Bridge Trail Bridge

- Do Nothing
- Rehabilitate the Bridge
- Decommission the Bridge and Build a New Structure (Concrete Bowstring Arch Bridge; Precast Concrete Girder Bridge, or Structural Steel Girder Bridge)
- Decommission the Bridge and Provide Alternative Access Route



July 2011
Public Consultation Centre

Fall 2011
Notice of ESD available for Public Review

Humber Bridge Trail Bridge

- **Purpose of Study:** Identified in the City of Vaughan Biannual Bridge Inspection, the purpose of this study is to identify an appropriate solution to address the structural integrity, as well as access issues associated with the Bowstring Arch Bridge on Humber Bridge Trail.



Humber Bridge Trail Bridge

- **Background**

- Built in 1918 to carry the original alignment of Major Mackenzie Drive over the Humber River
- The structure is a concrete bowstring arch bridge which is owned by the City of Vaughan
- Bridge is over 90 years old and has not been maintained, so it is in an advanced state of disrepair
- Bridge provides vehicular access to one residential property on Humber Bridge Trail, on the east bank of the Humber River



Phase 1 - Identify the Problem / Opportunity

- Structural and Safety
 - Span of 19.5 m and a roadway width of 3.4 m (i.e. one lane/car-width)
 - Overall in poor condition, with a Bridge Condition Index (BCI) of 49.0 (a BCI of below 60 is considered poor based on the Ministry of Transportation (MTO) methodology)
 - Due to the advanced state of disrepair, there is a significant risk to users of this bridge
 - This project provides an opportunity to improve the structural integrity and safety of the bridge as well as maintain and improve the connection along Humber Bridge Trail

Phase 1 - Identify the Problem / Opportunity

- Heritage
 - Built in 1918, has not undergone any major rehabilitation or repair work
 - Humber Bridge Trail (HBT) Bridge can be considered an in-tact example of a concrete bowstring arch bridge, commonly constructed across Ontario in the early 20th Century
 - This project provides an opportunity to preserve the heritage features of the HBT Bridge

Phase 1 - Identify the Problem / Opportunity

- Problem/Opportunity Statement
 - *“The bridge on Humber Bridge Trail is deteriorating in terms of its structural integrity, resulting in increased concern for the safety of bridge users and preserving the heritage aspects of the bridge. This project provides an opportunity to maintain and improve the connection along Humber Bridge Trail, east of Highway 27, as well as preserve a local heritage resource, by addressing the Bridge’s advanced state of disrepair.”*

Phase 2 - Description of Alternative Solutions

1. Do Nothing

- No actions would be taken to improve the structural integrity of the bridge

2. Rehabilitate the Bridge

- Maintain the existing structure, rehabilitation would include replacement of the deck and handrails and the repair or reinforcement of other bridge components. Preservation is paramount and restoration would be sympathetic to the existing bridge design

3. Decommission the Bridge and Build a New Concrete Bowstring Arch Bridge

- Removing the existing structure and erecting a new concrete bowstring arch bridge in the vicinity of the current bridge

Phase 2 - Description of Alternative Solutions

4. **Decommission the Bridge and Build a New Precast Concrete Girder Bridge**
 - Remove the existing structure and erect a new precast concrete girder bridge in the vicinity of the current bridge
5. **Decommission the Bridge and Build a New Steel Girder Bridge**
 - Remove the existing structure and erect a new structural steel girder bridge in the vicinity of the current bridge
6. **Decommission the Bridge**
 - Remove the structure completely, thereby also removing the connection along the Kirby Road right-of-way over the Humber River

Existing Conditions – Structural

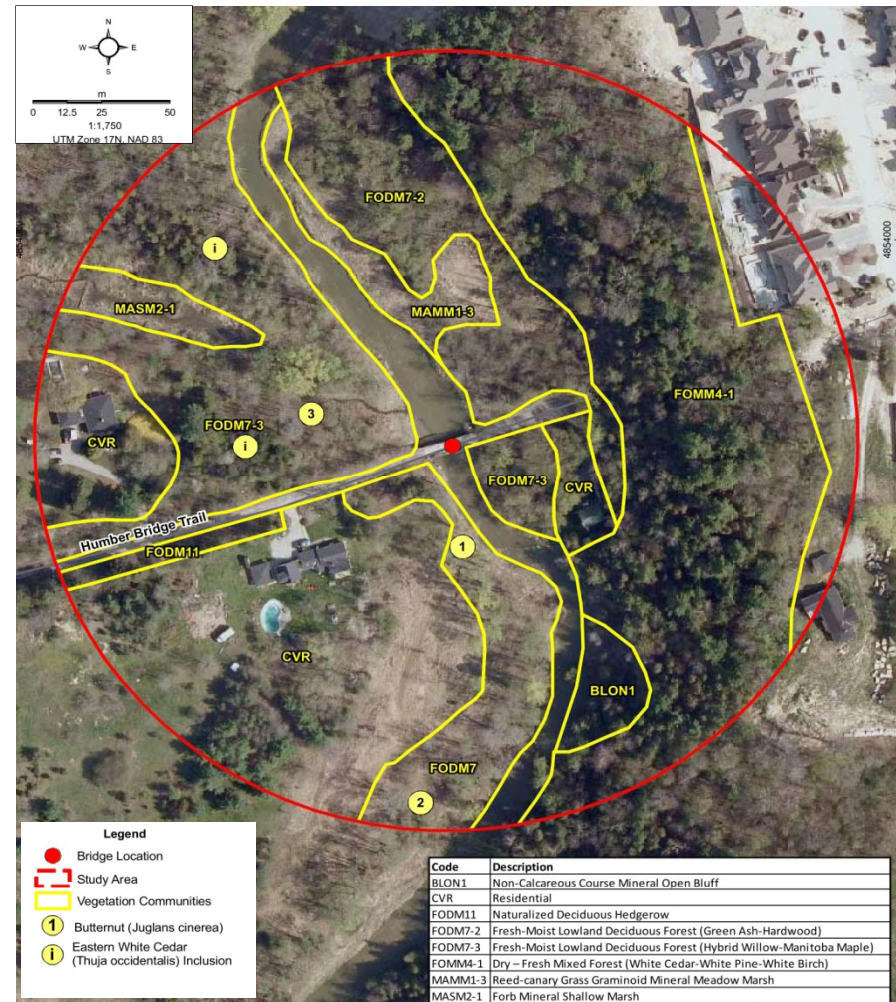
- Numerous key structural components are deteriorating or deteriorated (i.e. deck, vertical arch hangers, bottom arch chord and handrails)
- Other components in somewhat better condition, but have also experienced decay



- The bridge has a 5 tonne load limit, which would support most vehicles, but **not** larger emergency vehicles
- Significant risk to users, particularly in relation to the bridges damaged and in some cases obsolete guiderail
- Portions are showing a significant amount of spalling (concrete essentially breaks off from the main structure in small pieces)

Existing Conditions – Terrestrial Environment

- Vegetation is mixed, including forest and meadows
- No Environmentally Significant Areas (ESAs), provincially/locally significant wetlands (PSWs/LSWs), or Areas of Natural and Scientific Interest (ANSIs) within the study area
- The Humber River Valley Life Science ANSI and Glassco ESA are located approximately 1.15 km northeast of the bridge



Existing Conditions – Terrestrial Environment

- **Rare/Significant Species recorded within 1 km of the bridge on Humber Bridge Trail include:**
 - **Federal & Provincial - Species at Risk:** Rapids Clubtail (Endangered); Redside Dace (Endangered); Cerulean Warbler (Special Concern); Eastern Ribbon Snake (Special Concern); Blanding's Turtle (Threatened)
 - **Provincially Rare :** Rapids Clubtail (S1- Critically Imperilled); Cerulean Warbler (S3B - Vulnerable); Eastern Ribbon Snake (S3 - Vulnerable); Redside Dace (S2 - Imperilled); Scarlet Beebalm (S3 - Vulnerable); Jefferson X Blue-spotted Salamander (S2 - Imperilled); Blanding's Turtle (S3 – Vulnerable)
- **Locally Significant species within 150 m of the bridge:** Beech Fern
- **Butternut** - federally and provincially Endangered tree species, protected under Endangered Species Act (2007) - confirmed within 150 m of the bridge
 - As this species receives protection under the Endangered Species Act (2007), a permit may therefore be required should the proposed undertaking pose a threat to this species

Existing Conditions – Aquatic Environment

- Humber River was designated as a Canadian Heritage River in 1999
- Within the main Humber subwatershed
- Index of Biotic Integrity (IBI) indicates the general health of the aquatic ecosystem in this area is “fair” or intermediate
- 28 species, predominantly intermediately tolerant, coolwater fish, have been recorded within the study area, including the Provincially Endangered Redside Dace (c. 1999)
 - Confirmation from MNR was received stating that this site is not located within known occupied Redside Dace habitat.

Existing Conditions – Hydrogeological Environment

- Regional groundwater flows southwards towards Lake Ontario, while local shallow groundwater flows towards the Main Humber River
- In the vicinity of the bridge, the groundwater table is anticipated to be at a similar elevation to the Humber River
- The presence of the Halton Till within the study area inhibits local groundwater recharge, reduces the exposure of underlying aquifers to contamination, and also provides little groundwater discharge to the Humber River
- 16 water wells are recorded to be within 500 m of the bridge, seven of which are expected to be no longer in use
- A road-side well survey was conducted along Humber Bridge Trail and identified three active water wells

Existing Conditions – Social/Land Use Environment

- Three residential properties are located on Humber Bridge Trail, one of which can only be access via the HBT Bridge
- ‘Settlement Area Outside the Greenbelt’ designation under *Ontario Greenbelt Plan* (2005), linked to the ‘Protected Countryside’ to the north as part of the ‘River Valley Connection’
- ‘Regional Greenlands System’ under the *York Region Official Plan* (2010) – intended to maintain areas with unique functions, attributes and linkages
- Surroundings designated ‘Natural Area and Countryside’ under *Vaughan Tomorrow* (2010) - City of Vaughan’s Official Plan
 - Within the urban boundary
- *Vaughan Pedestrian and Bicycle Master Plan* (2007) - Humber Bridge Trail right-of-way, extended easterly to St. Padre Pio Gardens, designated a ‘Neighbourhood Signed Bike Route’

Existing Conditions – Cultural Environment

- Built in 1918, no major rehabilitation/repair work undertaken to-date
- 1 of 4 concrete bowstring arch bridges spanning the Humber River
- Originally served as a major river crossing until the Major Mackenzie Road alignment was moved to its present position in the late 20th century
- HBT Bridge scored 70 on the OHBP evaluation
- The overall score indicates that the HBT Bridge has high heritage significance and thus grounds for inclusion on the OHBP list

Existing Conditions – Cultural Environment

- No archaeological sites have been registered immediately adjacent to the bridge on Humber Bridge Trail; however, 14 sites have been registered within 1 km of the bridge
- Based on the findings of a Stage 1 Archaeological Assessment, the existing footprint of the HBTB does not retain archaeological site potential due to previous ground disturbances

Evaluation Results – Humber Bridge Trail Bridge

Alternative		Pros	Cons	Rank
1	Do Nothing	–low immediate cost	–does not address problem/opportunity statement –conflicts with City’s Pedestrian and Cycling Master Plan –liability issues continue to exist	6 th
2	Rehabilitate the Bridge	–preserves cultural heritage –improves safety –best protects environment –moderately high cost	–provides only 1-lane vehicular access	1 st
3	Remove Existing Bridge and Build a New Concrete Bowstring Arch Bridge	–preserves cultural heritage –improves safety –provides 2-lane bridge	–high cost	2 nd
4	Remove Existing Bridge and Build a New Precast Concrete Box Girder Bridge	–improves safety –provides 2-lane bridge	–high cost –loss of cultural heritage	4 th
5	Remove Existing Bridge and Build a New Structural Steel Girder Bridge	–improves safety –provides 2-lane bridge	–high cost –loss of cultural heritage	3 rd
6	Remove Bridge and Provide Alternative Access Road to house #5789	–improves safety	–loss of cultural heritage –loss of recreational use –highest cost –high disruption to environment due to vegetation removal along new access route	5 th

Preferred Alternative Humber Bridge Trail Bridge

Alternative #2 - Rehabilitate the Bridge

- In considering each of the key factor areas (i.e. heritage, structural, financial, natural environment) and weighing the potential tradeoffs, Full Rehabilitation of the bridge on Humber Bridge Trail is the only means of preserving its heritage potential, as well as improving its structural integrity and minimizing impacts on the surrounding environment

Next Steps

- Respond to comments/suggestions from the Public and Agencies – August 2011
- Undertake Phase 4: Summarize the planning and decision-making processes undertaken through Phases 1 and 2 and document this in two separate Environmental Screening Documents (ESD) – August/September 2011
- Submission of Recommended Solutions and Summary of ESD to City of Vaughan Council – Fall 2011
- Post Notice of Completion and ESD on Public Record for 30 Calendar Day Review – Late Fall 2011



Humber Bridge Trail

Thank You!

If you have any questions or comments, please do not hesitate to contact the following individuals:

Colin Cassar, C.E.T.

Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

Blair Shoniker, MA., MCIP, RPP

Consultant Project Manager
AECOM Canada Ltd.
300 Town Centre Blvd., Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400 ext. 383
Fax: 905-477-1456
Email: blair.shoniker@aecom.com

Questions?

Vaughan Bowstring Arch Bridges Class Environmental Assessment

Comment Form

Public Information Centre • Kleinburg Public Library • July 21, 2011

We are very interested in hearing your comments on the Vaughan Bowstring Arch Bridges Class Environmental Assessment (EA) Studies. Please complete and hand in this Comment Form so that your input can be received, considered, and made part of the official EA document.

1. Please provide any general comments on this evening's Public Information Centre.

2. Are you in agreement with the Preferred Alternative for the McEwen Bridge?

Yes No

3. Is there anything else you would like the City of Vaughan to consider in the McEwen Bowstring Arch Bridge Class EA?

Yes No

4. Are you in agreement with the Preferred Alternative for the Humber Bridge Trail Bridge?

Yes No

5. Is there anything else you would like the City of Vaughan to consider in the Humber Bridge Trail Bowstring Arch Bridge Class EA?

Yes No

Please provide your contact information to allow the project team to respond to any questions or concerns you may have, and keep you informed on the study. Your personal information will be kept confidential. (See Privacy Statement below)

Name / Organization: _____

Mailing Address: _____

City: _____ Postal Code: _____

Telephone Number: _____

Email: _____

If you have not already provided comments previously, would you like to be added to the project mailing list so you can be informed about developments in the study?

(Please indicate with an "X") Yes No

Should you wish to prepare your comments later, please submit this completed form by mail, fax or e-mail by **August 5th, 2011** to either:

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

Blair Shoniker, MA., MCIP, RPP
Consultant Project Manager
AECOM
300 Town Centre Blvd, Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400, ext. 383
Fax: 905-477-1456
Email: Blair.Shoniker@aecom.com

Thank you for your input.

PRIVACY STATEMENT

Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.



July 25, 2013

Contact Name
Company Name
Company Address
Company Address

Dear Contact Name:

The City of Vaughan has completed a Class Environmental Assessment (EA) Study to determine the optimal solution for the Humber Bridge Trail bowstring arch bridge over the Humber River. The purpose of this notice is to inform you that the Class EA report and its findings are available for public viewing and comment.

The bowstring arch bridge is more than 90 years old and in advanced disrepair. The bridge is located on Humber Bridge Trail, east of Highway 27, and provides vehicular access to one residential property.

The Class EA Study determined that the preferred solution for implementation was to **Rehabilitate the Bridge** in order to maintain the heritage importance and provide for much needed improvements from a safety and access perspective.

The study was conducted in accordance with the requirements for Schedule 'B' projects as prescribed in the Municipal Class Environmental Assessment (June 2010) under the Ontario Environmental Assessment Act. One Public Information Centre (PIC) was held (July 21, 2011) in order to gather comments and input from Stakeholders and members of the Public. As required by the Municipal Class EA, the study was documented in a Summary Report and is available for viewing at the following location during normal business hours:

City of Vaughan
Engineering Department
2141 Major Mackenzie Drive
Vaughan, Ontario

All project information will also be available on the project website:
http://www.vaughan.ca/projects/engineering_projects/HBTbridge

Please contact either one of the undersigned if you have any comments or concerns on the study within 30 calendar days from the date of this Notice. If after consulting with The City of Vaughan or AECOM, your concerns remain unresolved, a request may be made to the Minister of the Environment to make an order for the project to comply with Part II of the EA Act (referred to as a Part II Order). This request must be made in writing to the Minister of the Environment at the address below and copied to The City of Vaughan before the end of the 30 calendar day review period.

Minister of the Environment
135 St. Clair Avenue
10th Floor, Toronto, ON M4V 1P5

This Notice issued July 25, 2013.

If there are no outstanding Part II Order requests received by August 26, 2013, the City may proceed to design and construction as presented in the planning documentation.

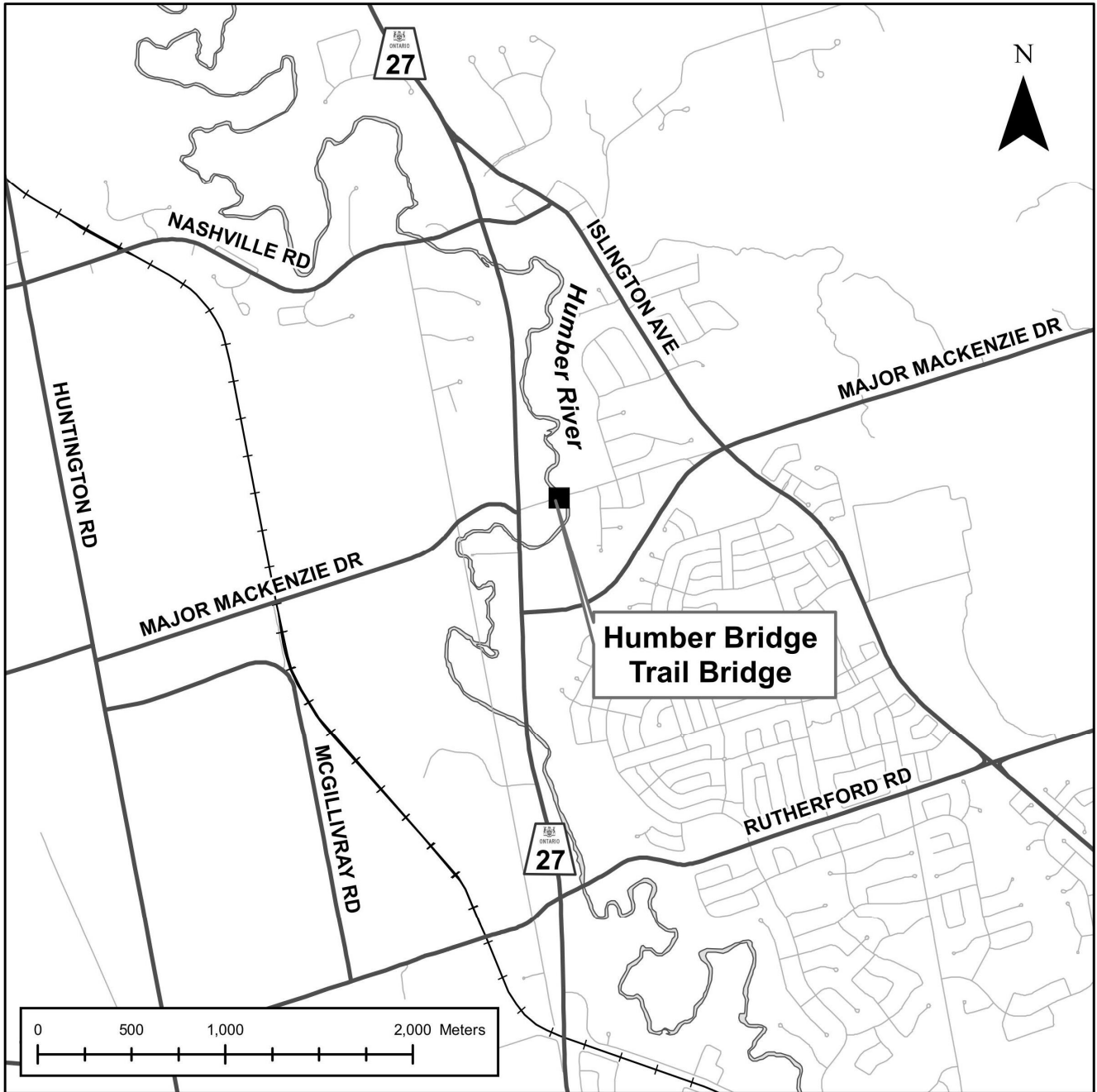
Sincerely,

A handwritten signature in black ink, appearing to read 'Colin Cassar', written over a horizontal line.

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

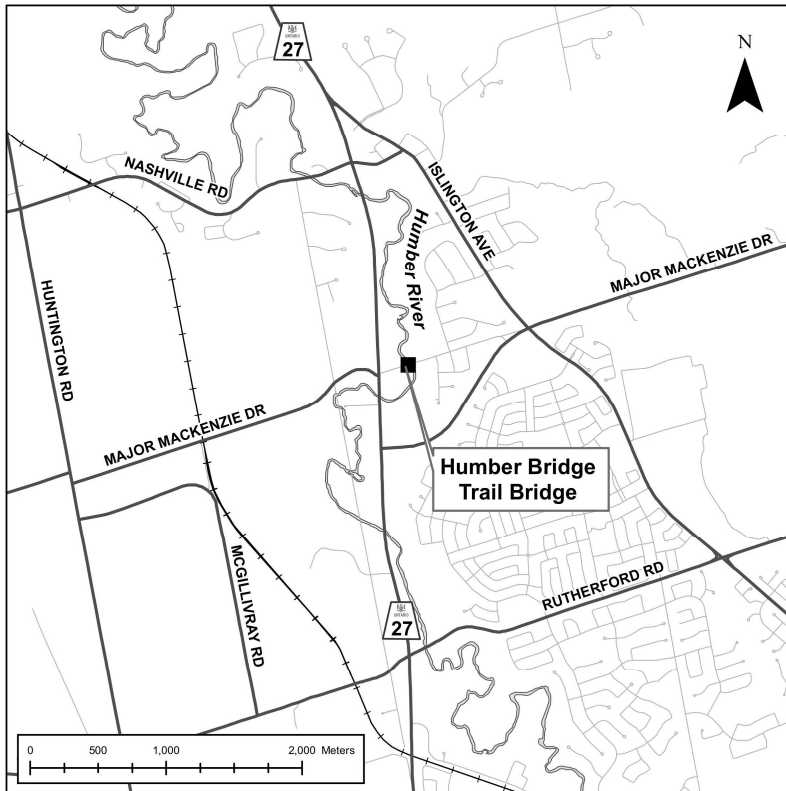
A handwritten signature in black ink, appearing to read 'Erika Brown', written over a horizontal line.

Erika Brown, M.Env.
Consultant Project Manager
AECOM Canada Ltd.
300 Town Centre Blvd., Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400 ext. 324
Fax: 905-477-1456
Email: erika.brown@aecom.com



Notice of Completion Vaughan Bowstring Arch Bridge – Humber Bridge Trail Class Environmental Assessment Studies

The City of Vaughan has completed a Class Environmental Assessment (EA) Study to determine the optimal solution for the Humber Bridge Trail bowstring arch bridge over the Humber River. The purpose of this notice is to inform you that the Class EA report and its findings are available for public viewing and comment.



Background

The bowstring arch bridge is more than 90 years old and in advanced disrepair. The bridge is located on Humber Bridge Trail, east of Highway 27, and provides vehicular access to one residential property.

The Environmental Assessment Process

The Class EA Study determined that the preferred solution for implementation was to **Rehabilitate the Bridge** in order to maintain the heritage importance and provide for much needed improvements from a safety and access perspective.

The study was conducted in accordance with the requirements for Schedule 'B' projects as prescribed in the Municipal Class Environmental Assessment (June 2010) under the Ontario Environmental Assessment Act. One Public Information Centre (PIC) was held on July 21, 2011 in order to gather comments and input from Stakeholders and members of the Public. As required by the Municipal Class EA, the study was documented in a Summary Report and is available for viewing at the following location during normal business hours:

**City of Vaughan
Engineering Department
2141 Major Mackenzie Drive
Vaughan, Ontario**

All project information will also be available on the project website: http://www.vaughan.ca/projects/engineering_projects/HBTbridge

Please contact either one of the following two project team members if you have any comments or concerns on the study within 30 calendar days from the date of this Notice:

Colin Cassar, C.E.T.
Senior Engineering Assistant
City of Vaughan Engineering Services Dept.
2141 Major Mackenzie Dr.
Vaughan, ON L6A 1T1
Tel: 905-832-8585, Ext. 8756
Fax: 905-303-2043
Email: colin.cassar@vaughan.ca

Erika Brown, M.Env.
Consultant Project Manager
AECOM Canada Ltd.
300 Town Centre Blvd., Suite 300
Markham, ON L3R 5Z6
Tel: 905-477-8400 Ext. 324
Fax: 905-477-1456
Email: erika.brown@aecom.com

If after consulting with The City of Vaughan or AECOM, your concerns remain unresolved, a request may be made to the Minister of the Environment to make an order for the project to comply with Part II of the EA Act (referred to as a Part II Order). This request must be made in writing to the Minister of the Environment at the address below and copied to The City of Vaughan before the end of the 30 calendar day review period. If there are no outstanding Part II Order requests received by August 26, 2013, the City may proceed to design and construction as presented in the planning documentation.

**Minister of the Environment
135 St. Clair Avenue
10th Floor, Toronto, ON M4V 1P5**

Please note that information related to this study will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

This Notice issued: July 25, 2013