

## **Appendices**



# **Appendix A**

## **Plan of Survey**



SCHEDULE				
PART	LOT	REGISTERED PLAN	PART OF PIN	AREA (sq.m.)
1	PART OF PARK LOT 19	181	71410 - 0007	102.4
2			71410 - 0008	121.1

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE LAND TITLES ACT.

APRIL 7, 2009  
DATE

*A. Bruce Donaldson*  
A. BRUCE DONALDSON  
ONTARIO LAND SURVEYOR

PLAN 61R-11095  
RECEIVED AND DEPOSITED

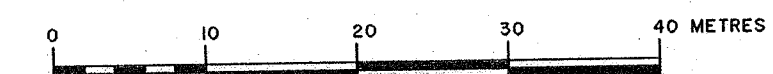
April 7, 2009  
DATE

*Cheryl Stenhouse A.O.*  
LAND REGISTRAR FOR  
THE LAND TITLES DIVISION  
OF WELLINGTON No. 61

# PLAN OF SURVEY OF PART OF PARK LOT 19 REGISTERED PLAN 181 Village of Elora TOWNSHIP OF CENTRE WELLINGTON COUNTY OF WELLINGTON

A. BRUCE DONALDSON - Ontario Land Surveyor  
2009

SCALE 1 : 500



METRIC: DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

## SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
- THE SURVEY WAS COMPLETED ON THE 25th DAY OF FEBRUARY, 2009.

APRIL 7, 2009

*A. Bruce Donaldson*  
A. BRUCE DONALDSON  
ONTARIO LAND SURVEYOR

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE WEST LIMIT OF VICTORIA CRESCENT AS BEING N8°47'00"W AS SHOWN ON P1.

- DENOTES SURVEY MONUMENT PLANTED
- DENOTES SURVEY MONUMENT FOUND (375 UNLESS SHOWN OTHERWISE)
- SSIB DENOTES SHORT STANDARD IRON BAR
- CC DENOTES CUT CROSS
- IB DENOTES IRON BAR
- RIB DENOTES ROUND IRON BAR
- 375 DENOTES BLACK, SHOEMAKER, ROBINSON & DONALDSON LIMITED O.L.S.'s
- WIT DENOTES WITNESS
- P1 DENOTES PLAN BY 375, PROJECT No. 03-4940-2, DATED APRIL 23/08
- P2 DENOTES REGISTERED PLAN 181
- P3 DENOTES DEPOSITED PLAN 61R-7737
- P4 DENOTES DEPOSITED PLAN 61R-667
- P5 DENOTES DEPOSITED PLAN 61R-6785
- D1 DENOTES INST. No. ROS532843

BLACK, SHOEMAKER, ROBINSON & DONALDSON  
LIMITED

**BSR&D**

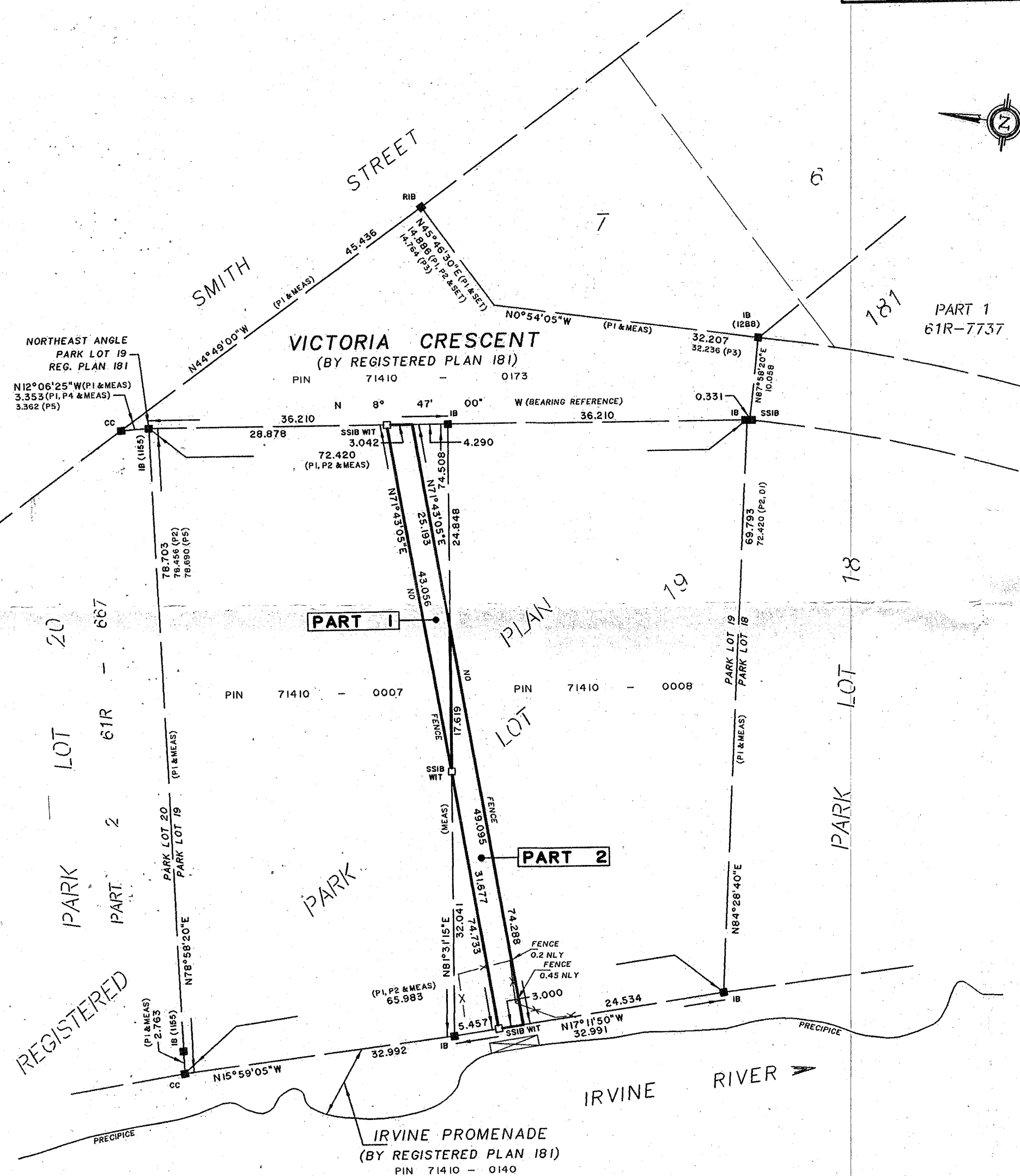
Ontario Land Surveyors  
Urban and Rural Planners

351 Speedvale Avenue West  
Guelph, Ontario N1H 1C6  
FAX: (519) 822-1220  
TEL: (519) 822-4031

DATE:  
APRIL 7, 2009

DRAWN BY: DM

PROJECT  
03-4940-3





## **Appendix B**

### **Technical Servicing Review Summary (Triton, October 2015)**



## **CONSTRUCTION STAGING FOR STORM SEWER RECONSTRUCTION IN THE FORMER VILLAGE OF ELORA, TOWNSHIP OF CENTRE WELLINGTON VICTORIA CRESCENT STORM OUTLET DESIGN BRIEF**

### **1.0 Background**

There is a storm sewer outlet to the Irvine Creek in the former village of Elora, Township of Centre Wellington, on private land west of Victoria Crescent. This outlet serves an existing trunk storm sewer which extends east along Moir Street to the intersection of Geddes Street; thence diagonally across private lands and Princess Street to a point just north of the intersection of Colborne Street and Melville Street; thence south on Melville Street to Colborne Street; thence east along Colborne Street originally as far as Mary Street. The part of the original trunk on Colborne Street east of North Queen Street has recently been reconstructed. The area originally serviced by the existing trunk sewer consists of about 22.8 hectares extending from Colborne Street in the south to David Street in the north, and from Smith Street and Victoria Crescent in the west to half a block east of Mary Street in the east, plus an area east and west of Aqua Street north of David Street.

The existing storm sewer has been problematic because of insufficient cover and the overall condition of the ageing system in the portions of it that exist under private lands. Triton Engineering has been pursuing an overall master storm plan over the years to redirect the majority of the area being served by this trunk sewer southward along new trunk storm sewers that are in the process of being built on Melville Street and North Queen Street. The remainder of the existing area from half a block west of Melville Street westward must still be served by the Victoria Crescent storm sewer outlet, but the trunk storm sewer is to be relocated into the public right of way and the area being served by this outlet is to be reduced as mentioned above.

The Township of Centre Wellington plans to phase the reconstruction of both Colborne Street and David Street in the future. The purpose of this design brief is to examine the current state of the existing storm sewer system in the village of Elora and examine in what order the future street reconstruction should proceed so that continuity of storm sewer service is maintained, no new storm sewers are constructed which do not have an outlet prepared, and existing outlets do not get overloaded by connection to recently constructed sewers.

This design brief has been prepared based on old mapping, acquired partial plan over profile drawings, visual inspection in the field, and Triton record drawings for areas that have been reconstructed by us in the past. Further field investigation will be required to confirm assumptions.

### **2.0 North Queen Street Trunk Sewer and Storm Outlet**

The new trunk storm sewer planned for North Queen Street has been completed from its outlet on the Grand River to Colborne Street. The portion of Colborne Street from North Queen Street to John Street has recently (2002) been reconstructed and served with storm sewers with an outlet to the North Queen Street trunk, and connected to the old existing storm sewer systems on North Queen Street and Mary Street north of Colborne Street. This has removed the portion of the old Victoria Crescent trunk sewer east of North Queen Street and redirected the eastern end of the area originally served by the Victoria Crescent storm outlet to the new North Queen Street outlet.

The portion of David Street from Irvine Street to John Street can be reconstructed, served with storm sewers, and connected to the existing trunk storm sewer on Irvine Street.

The portion of David Street from John Street to Aqua Street will not be able to be reconstructed and served with storm sewers until such time as the North Queen Street trunk storm sewer has been extended





from Colborne Street to David Street. Unless we investigate the capacity of the existing sewers on North Queen Street and Mary Street between Colborne Street and David Street and find that they are adequate for a temporary outlet. This would require a survey, dips, verification of sizes/materials, and some MIDUSS or rational method calcs.

### 3.0 Melville Street Trunk Sewer and Storm Outlet

The new trunk storm sewer planned for Melville Street has been completed from its outlet on the Grand River to a point just north of Colborne Street, where a storm structure has been constructed to intercept the existing Victoria Crescent trunk storm sewer. Since the invert of the outlet going south on Melville is lower than the elevation of the existing trunk, the portion of the existing Victoria Crescent trunk upstream of the structure as far as North Queen Street has now been redirected south along the Melville trunk sewer, with the outlet to the existing sewer serving as an overflow should the Melville Street outlet become surcharged.

Examining the existing storm sewer, there is an area of about 2 hectares west of Aqua Street and north of David Street which currently goes to the Victoria Crescent outlet but was not included in the Melville Street storm calcs because it was not in the red shaded area on the tissue paper storm drainage plan. Have checked capacity of Melville Street trunk. Existing sewers downstream are already full from picking up Melville Street and Chalmers Street as far north as David Street when you use a C of 0.35. Adding in the 2 hectares north of David Street causes surcharging. Might be a good idea to draw a line along the south side of David Street for the north limit of the drainage area for the Melville Street trunk. We can then pick up the portion of David Street from Aqua Street to Princess Street and outlet it down Princess Street to the new trunk. Staging wise, this means the 3 blocks of David Street from Geddes to Aqua can be built once the new Moir/Princess storm is complete. (Do not need to wait until both Chalmers Street and Melville Street sewers are complete as far north as David Street)

The portion of Colborne Street from Princess Street to half a block east of Melville Street can be reconstructed and served with storm sewers at the present time and connected to the Melville Street trunk sewer.

A storm sewer is to be built on Chalmers Street from Church Street to Colborne Street and connected to the Melville Street system in the near future. The portion of Colborne Street from half a block east of Melville Street to North Queen Street can be reconstructed and served with storm sewers once Chalmers Street is completed from Church Street to Colborne Street.

Question, see above? The portion of David Street from Aqua Street to half a block east of Melville Street can be reconstructed and served with storm sewers once the Chalmers Street storm sewer has been extended from Colborne Street to David Street.

Question, see above? The portion of David Street from half a block west of Melville Street to half a block east of Melville Street can be reconstructed and served with storm sewers once the Melville Street storm trunk has been extended from Colborne Street to David Street.

Another possibility for the portion of David Street from Aqua Street to Melville is to reconstruct it with a temporary outlet to the existing sewers on Melville Street, then reconstruct the block from Melville to Princess once the new Moir/Princess trunk is complete and redirect the David Street sewers to the new trunk. (There are no existing sewers on Chalmers Street to provide a temporary outlet.) Need to investigate the capacity of Melville Street sewers from Colborne to David Street with a survey, dips, verification of sizes/materials and MIDUSS or rational method calcs. May not be possible since old 1985 map is showing just a 300 diameter but may be worth looking into.



The portion of David Street from half a block west of Melville Street (or Princess Street?) westwards can be reconstructed, served with storm sewers, and connected to the existing sewers at the intersection of Geddes Street at the present time.

#### **4.0 Proposed Moir Street Trunk Storm Sewer and Victoria Crescent Outlet**

The extension of the North Queen Street and Melville Street trunk storm sewers and the construction of new storm sewers on Colborne Street, Moir Street, and David Street from approximately half a block east of Princess Street eastwards will enable the portion of the existing Victoria Crescent trunk sewer east of Princess Street to be abandoned or removed. This will remove about 15.6 hectares from the area currently being served by the Victoria Crescent storm outlet and leave an area of about 7.2 hectares from Princess Street westward which will still need to be served by the Victoria Crescent outlet.

The portion of the existing trunk sewer east of Geddes Street is located on private land under an existing commercial building and its parking lot. One option for moving the sewer onto public land is to construct a storm sewer on Moir Street from Geddes Street to Princess Street, and on Princess Street north to David Street and south to the natural low spot north of Colborne Street. Need to investigate feasibility. Preliminary look using profile of Princess St from 1960's shows that a sewer with minimum cover at the low point running north to Moir Street and west to Geddes St would be at about 0.3% if you connected it to the existing stub on the east side of Geddes. Need good elevations along Princess Street using GPS, capacity calcs for existing sewers crossing Geddes Street for incorporating them into the new trunk, storm design including possibility of picking up David Street from Princess to Aqua as discussed above.

Geddes Street has been reconstructed in the recent past and is already provided with existing sewers which can be connected to the new Moir Street sewer.

Henderson Street has been reconstructed to an urban standard in the recent past, and it has existing storm sewers that outlet north along Smith Street.

Smith Street will likely need to be reconstructed at some point and provided with storm sewers that pick up the surface drainage and connect Henderson Street to the Moir Street trunk.

If Victoria Crescent is to be reconstructed, it is +/-80m from the location of the outlet to high point of the road southward, so at least 1 set of basins to pick up surface drainage will be needed.



# TOWNSHIP OF CENTRE WELLINGTON STORM SEWER STUDY PLAN (ELORA)



## LEGEND:

- ORIGINAL DRAINAGE LIMIT FOR VICTORIA CRESCENT OUTLET
- DRAINAGE LIMIT FOR IRVINE STREET OUTLET
- DRAINAGE LIMIT FOR NORTH QUEEN STREET OUTLET
- DRAINAGE LIMIT FOR MELVILLE STREET OUTLET
- DRAINAGE LIMIT FOR GEDDES STREET OUTLET
- DRAINAGE LIMIT FOR METCALFE STREET OUTLET
- DRAINAGE LIMIT FOR PRICE STREET OUTLET

- EXISTING STORM SEWER
- DIRECTION OF FLOW

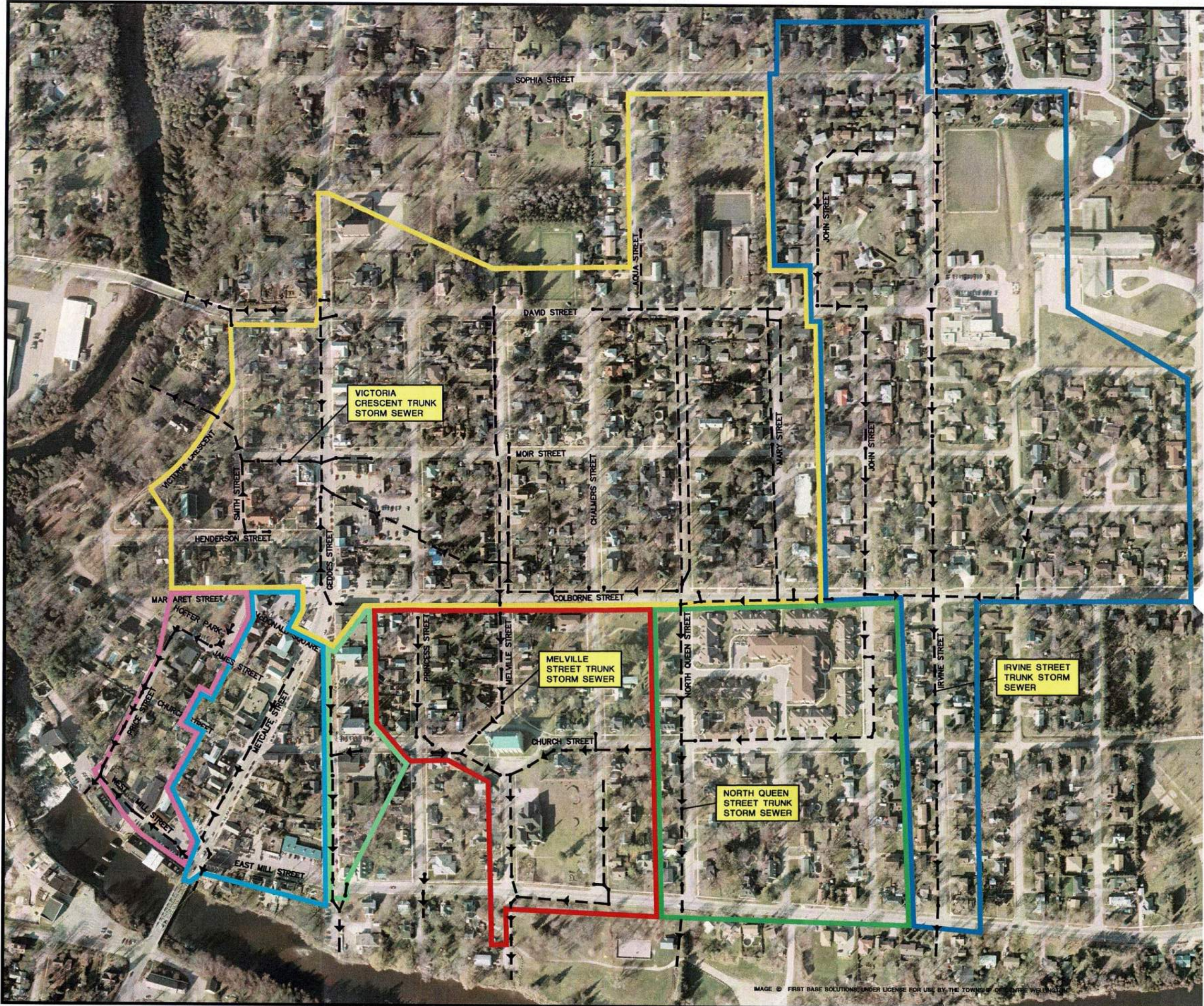
## EXISTING STORM SEWERS AND DRAINAGE AREAS

OCTOBER 2015

SCALE 1:4000

M6186A

Figure 1





# TOWNSHIP OF CENTRE WELLINGTON STORM SEWER STUDY PLAN (ELORA)



**LEGEND:**

- PROPOSED DRAINAGE LIMIT FOR VICTORIA CRESCENT OUTLET
- DRAINAGE LIMIT FOR IRVINE STREET OUTLET
- DRAINAGE LIMIT FOR NORTH QUEEN STREET OUTLET
- DRAINAGE LIMIT FOR MELVILLE STREET OUTLET
- DRAINAGE LIMIT FOR GEDDES STREET OUTLET
- DRAINAGE LIMIT FOR METCALFE STREET OUTLET
- DRAINAGE LIMIT FOR PRICE STREET OUTLET
- - - PROPOSED STORM SEWER
- - - DIRECTION OF FLOW
- - - EXISTING STORM SEWER

## PROPOSED STORM SEWERS AND DRAINAGE AREAS

OCTOBER 2015

SCALE 1:4000

M6186A

Figure 2

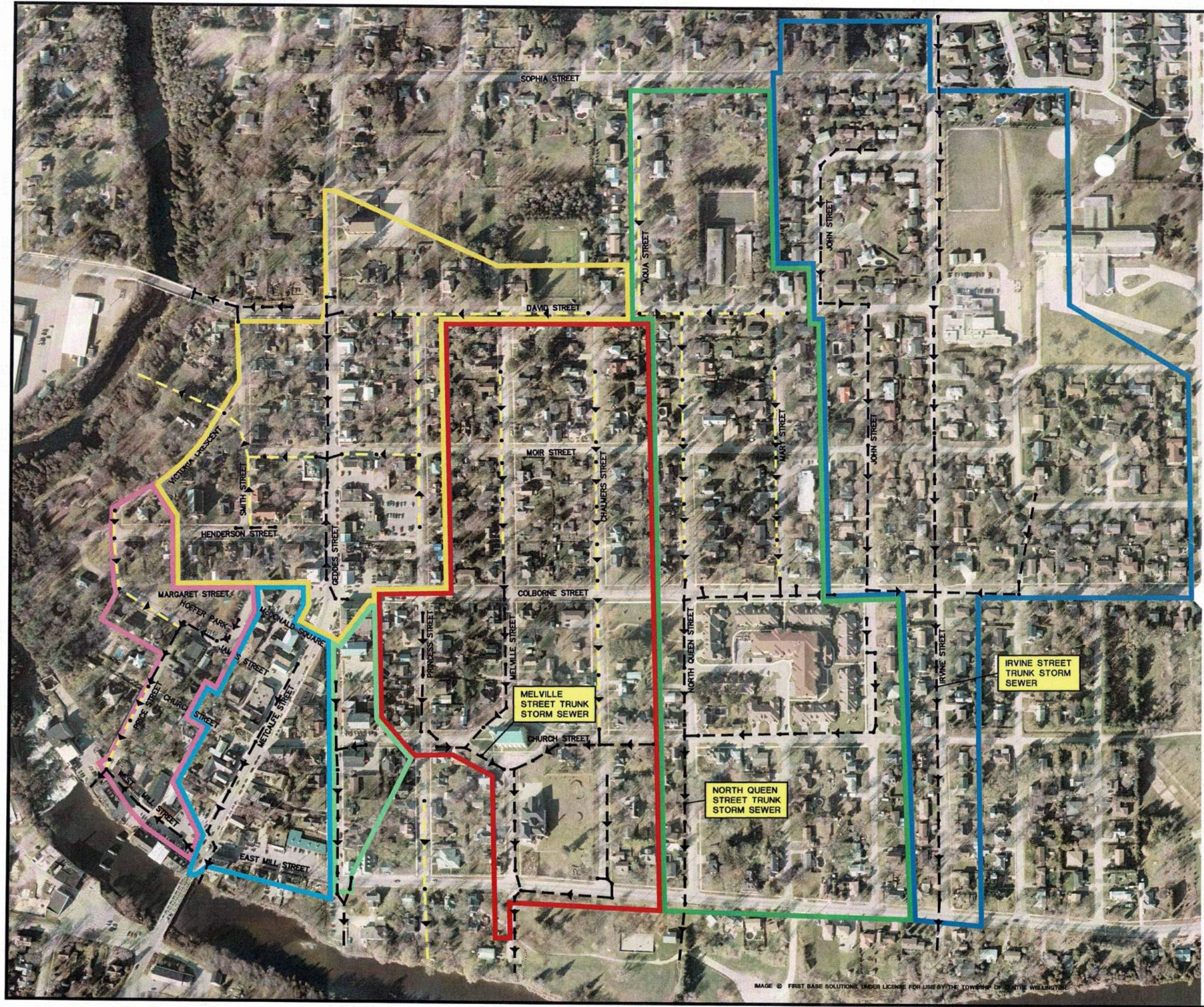


IMAGE © FIRST BASE SOLUTIONS, UNDER LICENSE FOR USE BY THE TOWNSHIP OF CENTRE WELLINGTON



## **Appendix C**

### **Memorandum: Trunk Storm Sewer CCTV Investigation Summary of Results (Triton, June 2017)**





**TRITON  
ENGINEERING  
SERVICES  
LIMITED**

Consulting Engineers

## Memorandum

DATE:	June 1, 2017
TO:	FILE
FROM:	Dustin Lyttle
RE:	CCTV Review Victoria Cres. to Irvine River Storm Water Outfall
FILE:	M6186A

*Refer to A2800(12) R087 for additional information regarding original recording.*

**Video Date:** 06/05/2006

**Time:** 1:55 pm

**Street:** Victoria (James) Cres to Gorge (Irvine River)

**Direction:** Downstream

**Size:** 600 mm



**Notes:**

At 4m gas main protrusion through pipe. Seal is broken.

At 5m additional attempts for gas main has created holes on either side.





**Notes:** At 34.1m pipe is shifted right and does not align properly.



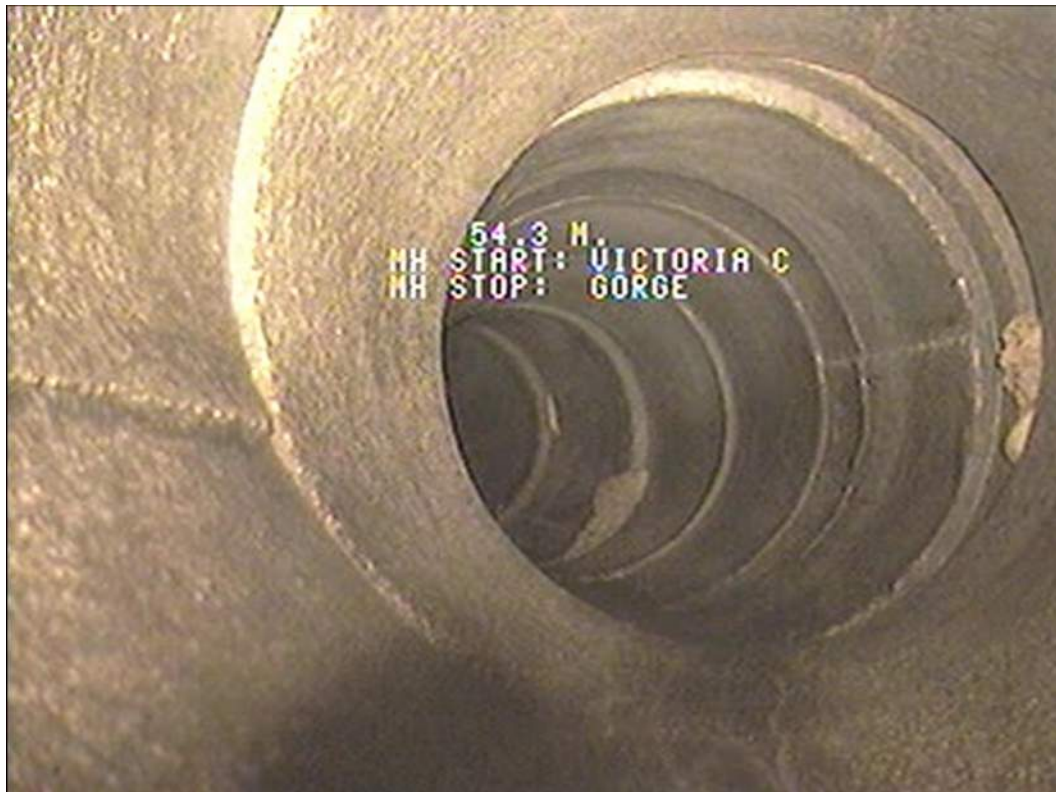


**Notes:** From 35.7 to 37.5, long horizontal cracks appear.



**Notes:** At 50.5m pipe is shifted left and does not align properly.





**Notes:** At 55.8m and 59m, concrete is piled at joints. Joints are also not aligned properly.





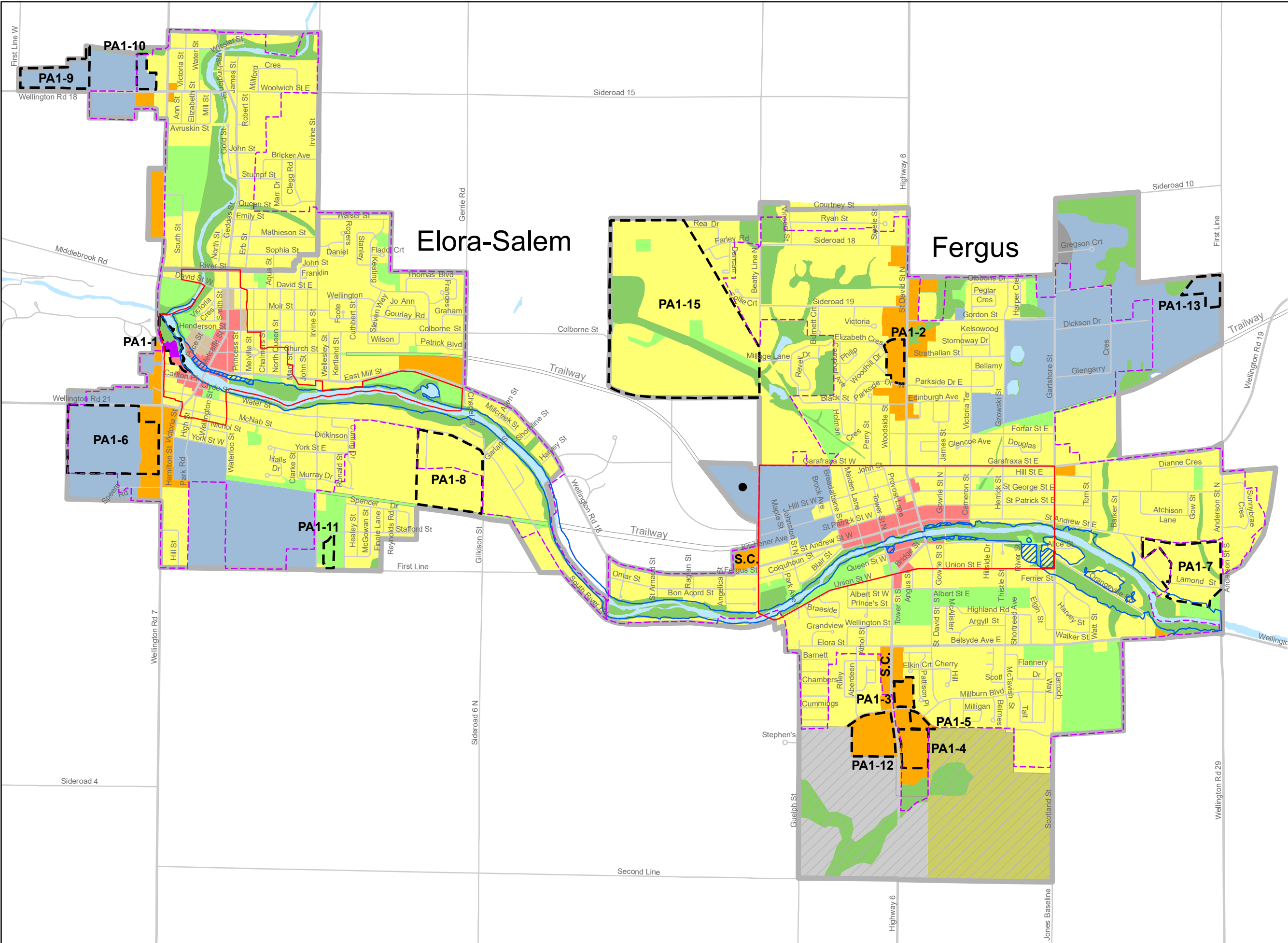
**Notes:** Concrete pipe ends at 76m, PVC begins and slopes downward steeply.



## **Appendix D**

### **Schedule A-1: Land Use Plan of Fergus, Elora-Salem (Township of Centre Wellington, November 2016)**





- Residential
- Highway Commercial
- Central Business District
- Residential Transition
- Industrial
- Core Greenlands
- Recreational
- Future Development
- Mixed Use
- Secondary Planning Area
- Future Residential
- Future Employment Lands

Note: The identification of Future Residential and Future Employment Lands is for public notice only and is subject to future considerations through Secondary Plan requirements.

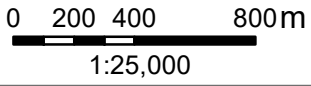
- Urban Boundary
- Built Boundary
- Heritage Area
- Policy Area
- Regulatory Flood Line
- Regulatory Flood Fringe

- S.C. Shopping Centre
- Former Waste Disposal Site

# **Schedule A-1** **Land Use Plan** **Fergus, Elora-Salem** Township of Centre Wellington



Built Boundary: Wellington County, 2008  
 Projection: UTM, NAD 83, Zone 17  
 Note: This product is not survey data.  
 All rights reserved.  
 May not be reproduced without permission.  
 © 2005 Township of Centre Wellington  
 Updated: November, 2016





## **Appendix E**

### **Tree Preservation Plan (Aboud, November 2017) and Related Correspondence**





**TRITON  
ENGINEERING  
SERVICES  
LIMITED**

**Consulting Engineers**

105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
e-mail: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST

June 7, 2017

██████████  
190 Victoria Crescent  
Elora, Ontario  
N0B 1S0

RE: TOWNSHIP OF CENTRE WELLINGTON  
VICTORIA CRESCENT STORM SEWER  
OUR FILE: M6186A

Dear ██████████

We wish to thank you for our meeting on May 23, 2017, wherein we discussed briefly the existing storm sewer and drainage on and adjacent to the northerly side of your property. In our discussion we advised of our requirement to complete a topographic survey including location of various shrubs and trees.

We thank you for permission to complete this survey as it will assist in the preparation of a detailed report and tree impact assessment to be completed by Aboud and Associates Inc. Consulting Arborists and Ecologists based in Guelph. This work is part of the ongoing Environmental Assessment being completed for this project.

We trust that this information is satisfactory for your present requirements and should you require any additional information please do not hesitate to contact us.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

Denis A. Hollands, C.E.T.

DAH/tah

cc: Colin Baker, Managing Director of Infrastructure, Township of Centre Wellington







**TRITON  
ENGINEERING  
SERVICES  
LIMITED**

**Consulting Engineers**

105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
e-mail: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST

June 7, 2017

██████████  
200 Victoria Crescent  
Elora, Ontario  
N0B 1S0

RE: TOWNSHIP OF CENTRE WELLINGTON  
VICTORIA CRESCENT STORM SEWER  
OUR FILE: M6186A

Dear ██████████

We wish to thank you for our meeting on May 29, 2017, wherein we discussed briefly the existing storm sewer and drainage on and adjacent to the southerly side of your property. In our discussion we advised of our requirement to complete a topographic survey including location of various shrubs and trees.

We thank you for permission to complete this survey as it will assist in the preparation of a detailed report and tree impact assessment to be completed by Aboud and Associates Inc. Consulting Arborists and Ecologists based in Guelph. This work is part of the ongoing Environmental Assessment being completed for this project.

We trust that this information is satisfactory for your present requirements and should you require any additional information please do not hesitate to contact us.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

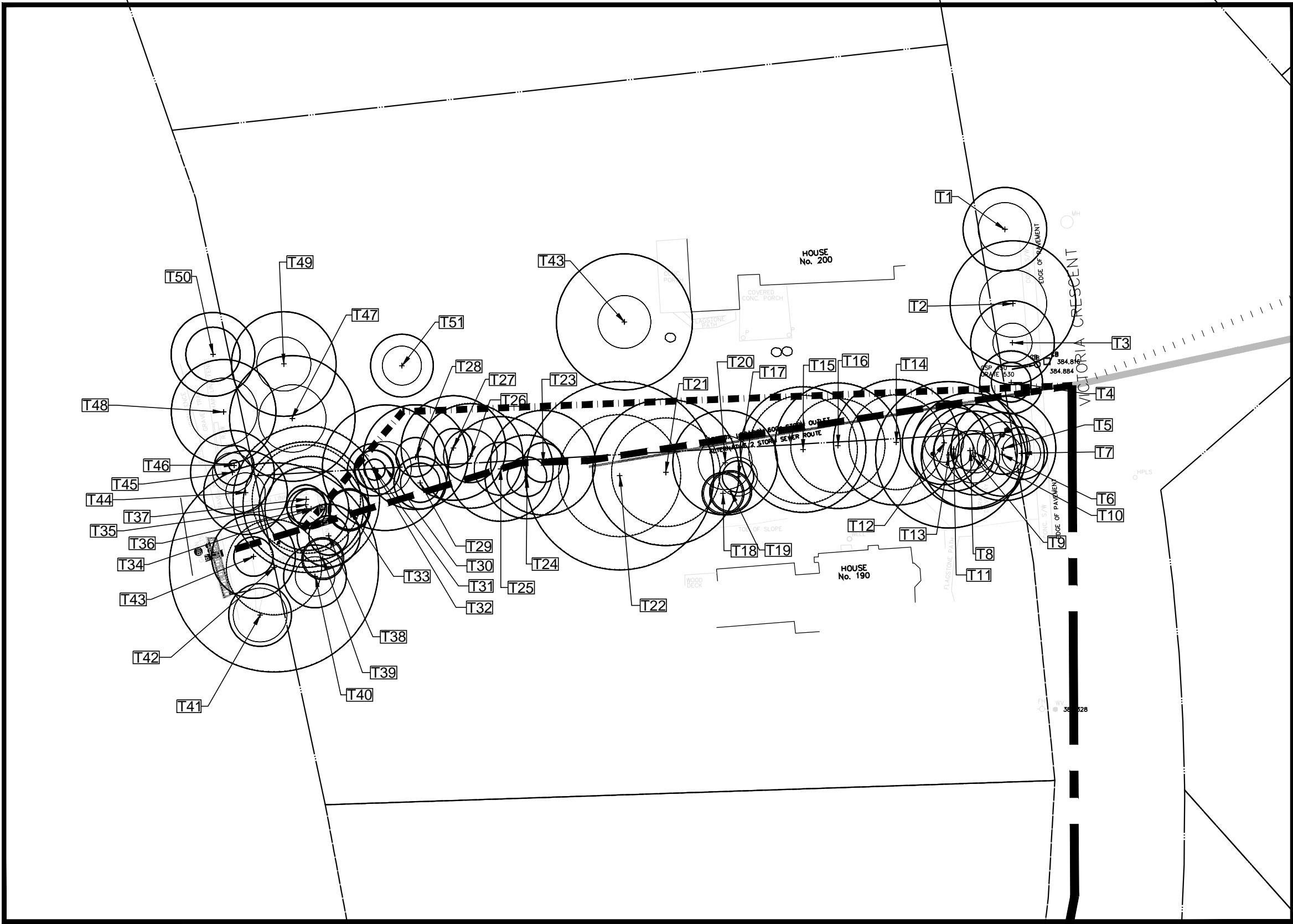
Denis A. Hollands, C.E.T.

DAH/tah

cc: Colin Baker, Managing Director of Infrastructure, Township of Centre Wellington

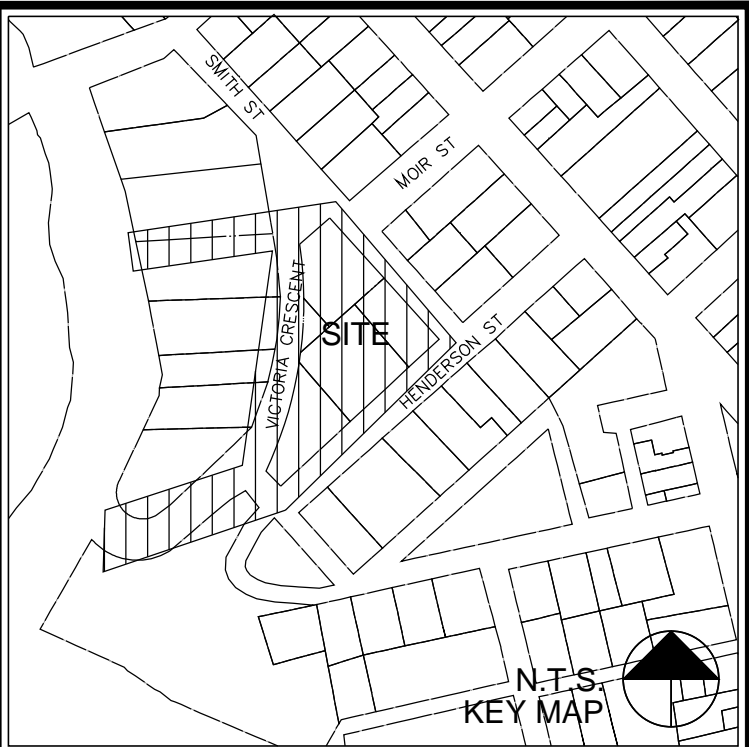
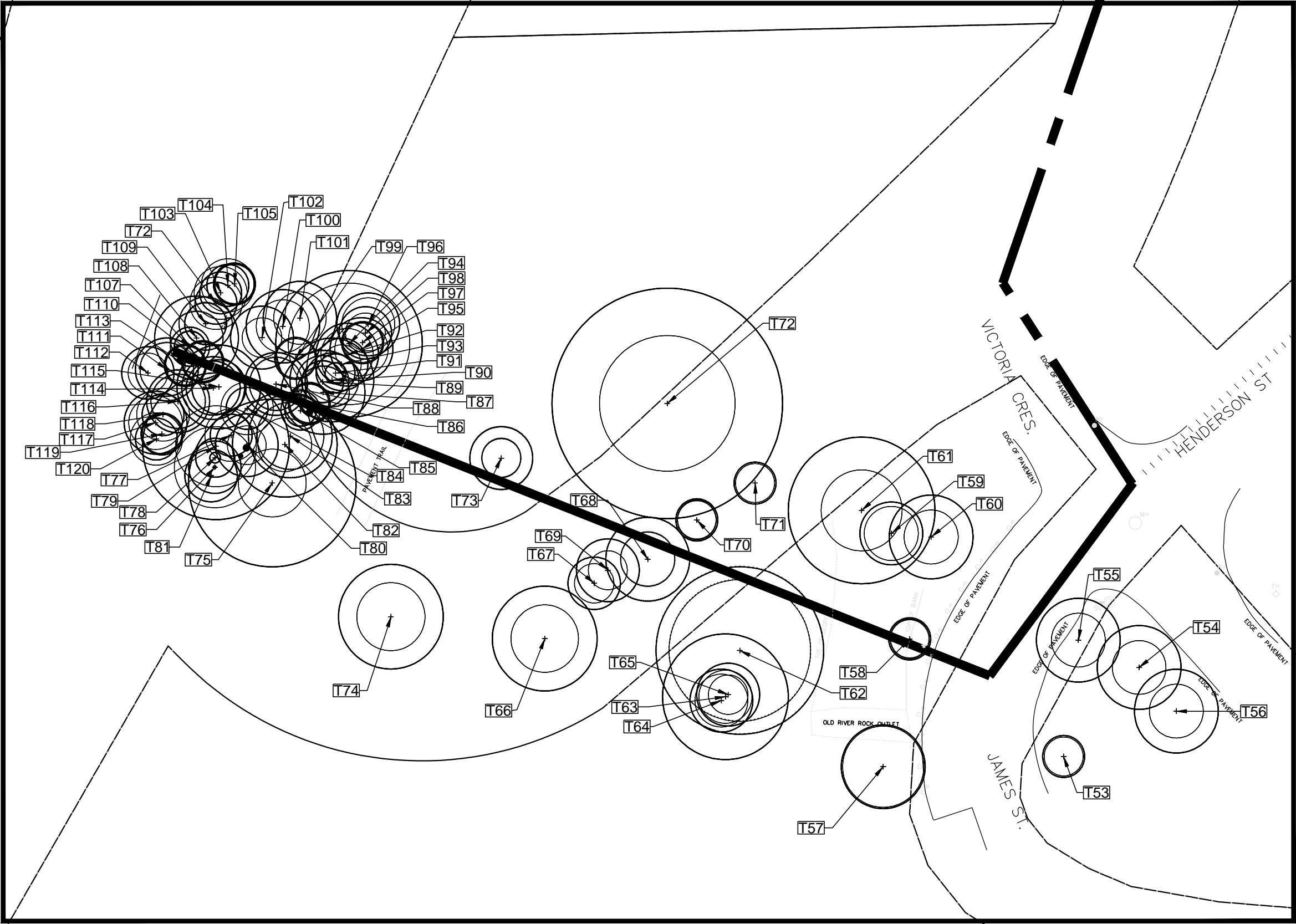






SEE TPP2 & TPP3

SEE TPP4



- LEGEND:**
- EXISTING TREE  
ID NUMBER / CIRCLE ILLUSTRATES  
APPROXIMATE CROWN RESERVE
  - PRESERVE TREE  
TREE HAS MODERATE TO HIGH BIOLOGICAL  
HEALTH AND/OR STRUCTURAL CONDITION AND  
CAN BE INCORPORATED INTO THE PROPOSED  
DEVELOPMENT
  - REMOVE TREE  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR  
STRUCTURAL CONDITION
  - REMOVE TREE  
TREE IS IN CONFLICT WITH PROPOSED  
DEVELOPMENT
  - TPF TREE PROTECTION FENCE
  - ALTERNATIVE 2 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 3 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4B TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A & 4B TRUNK SEWER  
ALIGNMENT
  - EXISTING TRUNK SEWER ALIGNMENT

- INFORMATION SOURCES**
- Storm sewer alignment alternatives dated August 2017  
obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by  
Aboud & Associates

No.	Description	By	Date
0	FOR INTERNAL REVIEW	JD	21 NOV-17

REVISIONS: All previous issues of this drawing are superseded

**ABOUT & ASSOCIATES INC.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclin Road, Guelph, Ontario, Canada, N1H 7J5  
1-519-822-6839 • F: 519-822-4052 • info@aboudmg.com • www.aboudmg.com

Title:  
**TREE PRESERVATION  
PLAN OVERVIEW**

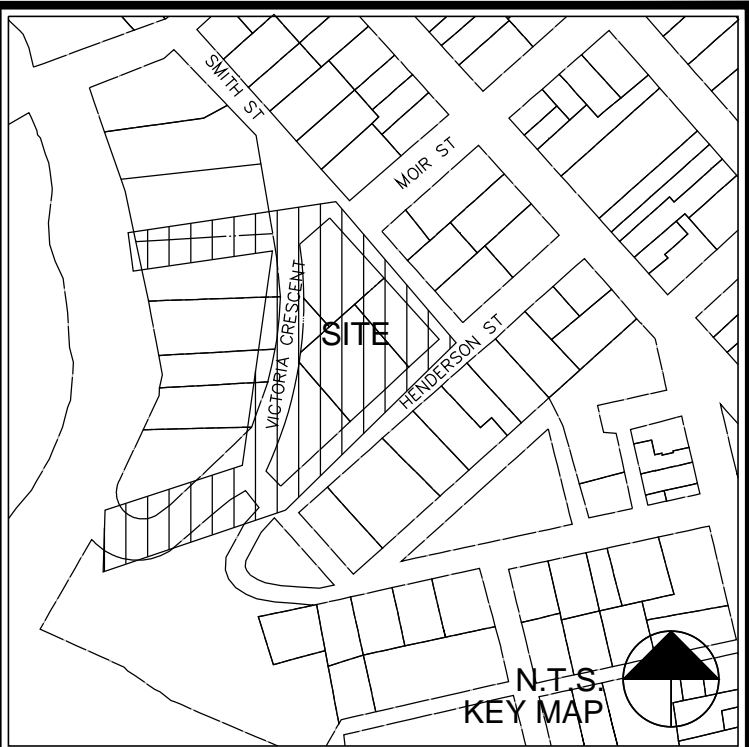
Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:400  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:

**TPP1**





- LEGEND:**
- EXISTING TREE**  
ID NUMBER / CIRCLE ILLUSTRATES APPROXIMATE CROWN RESERVE
  - PRESERVE TREE**  
TREE HAS MODERATE TO HIGH BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT
  - REMOVE TREE**  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION
  - REMOVE TREE**  
TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT
  - TPF** **TREE PROTECTION FENCE**
  - ALTERNATIVE 2 TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 3 TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4A TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4B TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4A & 4B TRUNK SEWER ALIGNMENT**
  - EXISTING TRUNK SEWER ALIGNMENT**

- INFORMATION SOURCES**
- Storm sewer alignment alternatives dated August 2017 obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by Aboud & Associates

No.	Description	By	Date
0	FOR INTERNAL REVIEW	JD	21 NOV-17

REVISIONS: All previous issues of this drawing are superseded

**Aboud & Associates Inc.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7J5  
T: 519.822.6839 • F: 519.822.4052 • info@aboudmg.com • www.aboudmg.com

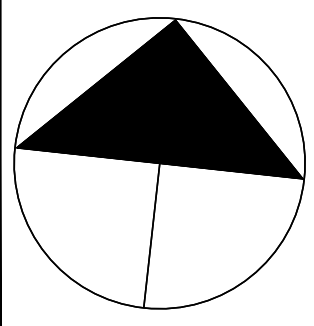
**TREE PRESERVATION  
PLAN ALTERNATIVE 2**

Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:150  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:

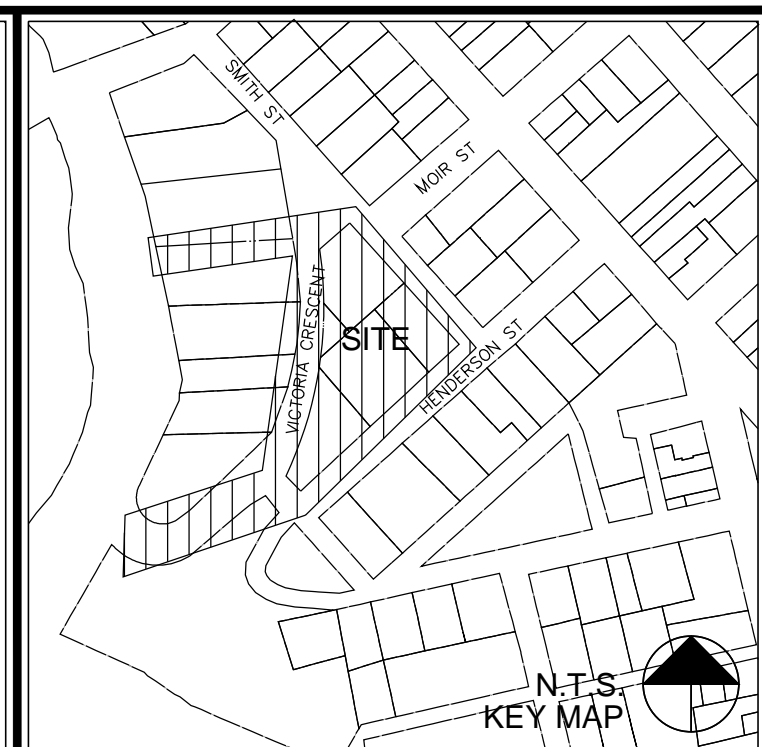
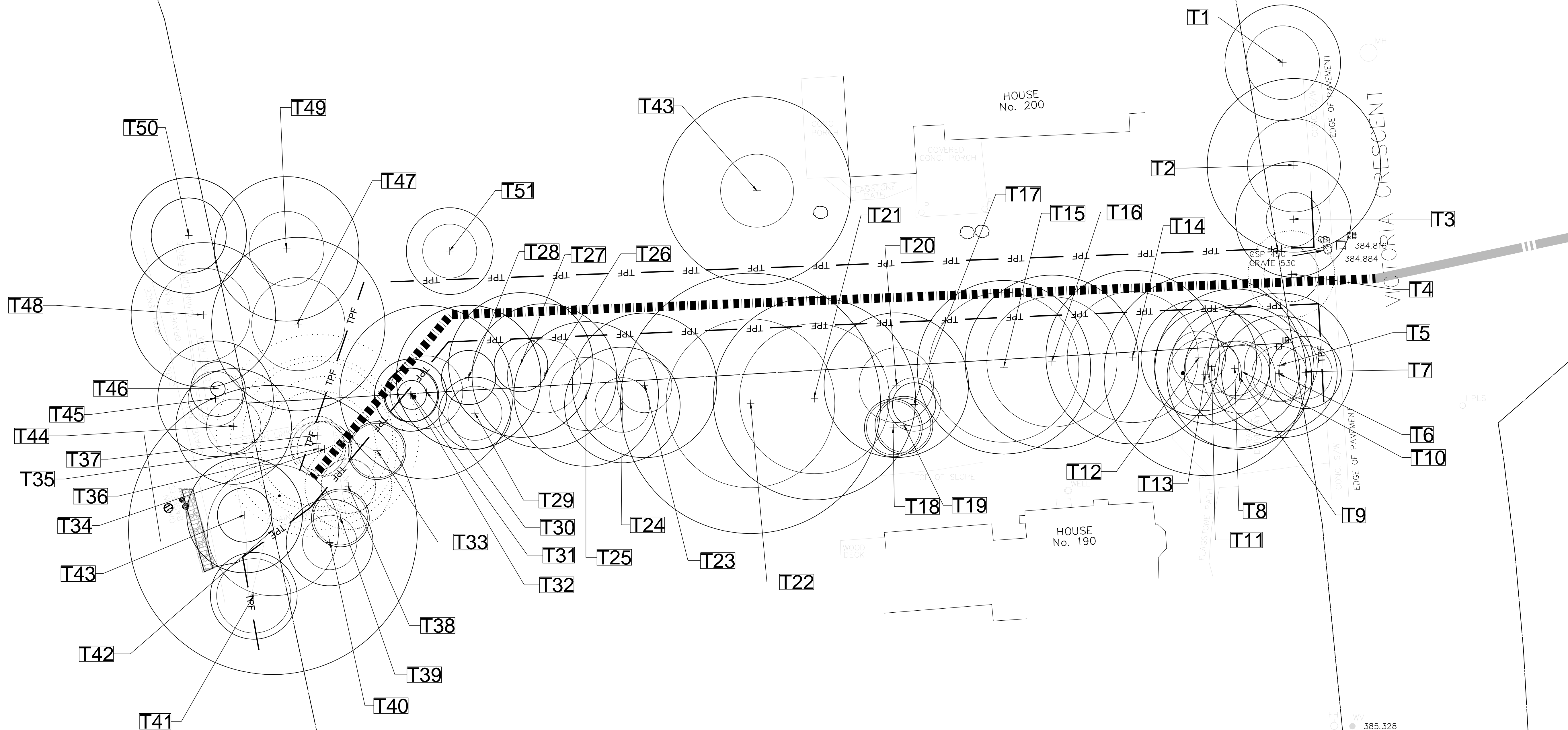
**TPP2**



File Path: S:\AA14-PROJECTS\AA14-069A-20\VICTORIA CRESCENT\CAD\AA14-069A-TPP-20171114.DWG CTR: ABOUDMG007.dwg PLOTTED: 14-Nov-17 12:48 PM



FILEPATH: S:\44-PROJECTS\2014-08\A-20\ VICTORIA CRESCENT\CAD\AA CAD\4-08\A-TPP-2017\11-14.DWG CTR: ABOU00007.dwg PLOTTED: 14-Nov-17 12:48 PM



- LEGEND:**
- EXISTING TREE**  
ID NUMBER / CIRCLE ILLUSTRATES  
APPROXIMATE CROWN RESERVE
  - PRESERVE TREE**  
TREE HAS MODERATE TO HIGH BIOLOGICAL  
HEALTH AND/OR STRUCTURAL CONDITION AND  
CAN BE INCORPORATED INTO THE PROPOSED  
DEVELOPMENT
  - REMOVE TREE**  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR  
STRUCTURAL CONDITION
  - REMOVE TREE**  
TREE IS IN CONFLICT WITH PROPOSED  
DEVELOPMENT
  - TPF** **TREE PROTECTION FENCE**
  - ALTERNATIVE 2 TRUNK SEWER  
ALIGNMENT**
  - ALTERNATIVE 3 TRUNK SEWER  
ALIGNMENT**
  - ALTERNATIVE 4A TRUNK SEWER  
ALIGNMENT**
  - ALTERNATIVE 4B TRUNK SEWER  
ALIGNMENT**
  - ALTERNATIVE 4A & 4B TRUNK SEWER  
ALIGNMENT**
  - EXISTING TRUNK SEWER ALIGNMENT**

- INFORMATION SOURCES**
- Storm sewer alignment alternatives dated August 2017  
obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by  
Aboud & Associates

No.	Description	By	Date
0	FOR INTERNAL REVIEW	JD	21 NOV-17

**REVISIONS:** All previous issues of this drawing are superceded

**ABOUT & ASSOCIATES INC.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7L5  
1-519-822-6839 • F: 519-822-4052 • info@aboudmg.com • www.aboudmg.com

Title:  
**TREE PRESERVATION  
PLAN ALTERNATIVES 3**

Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

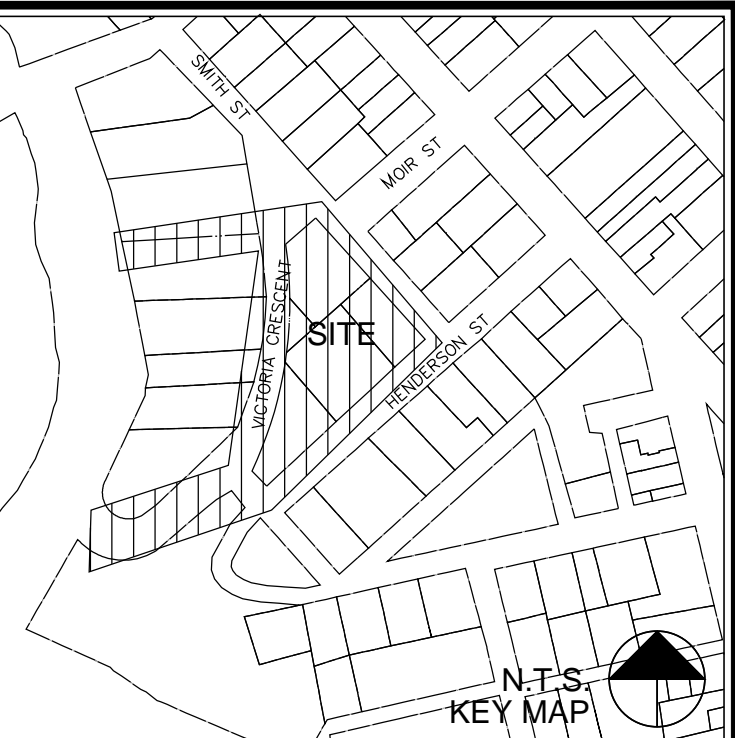
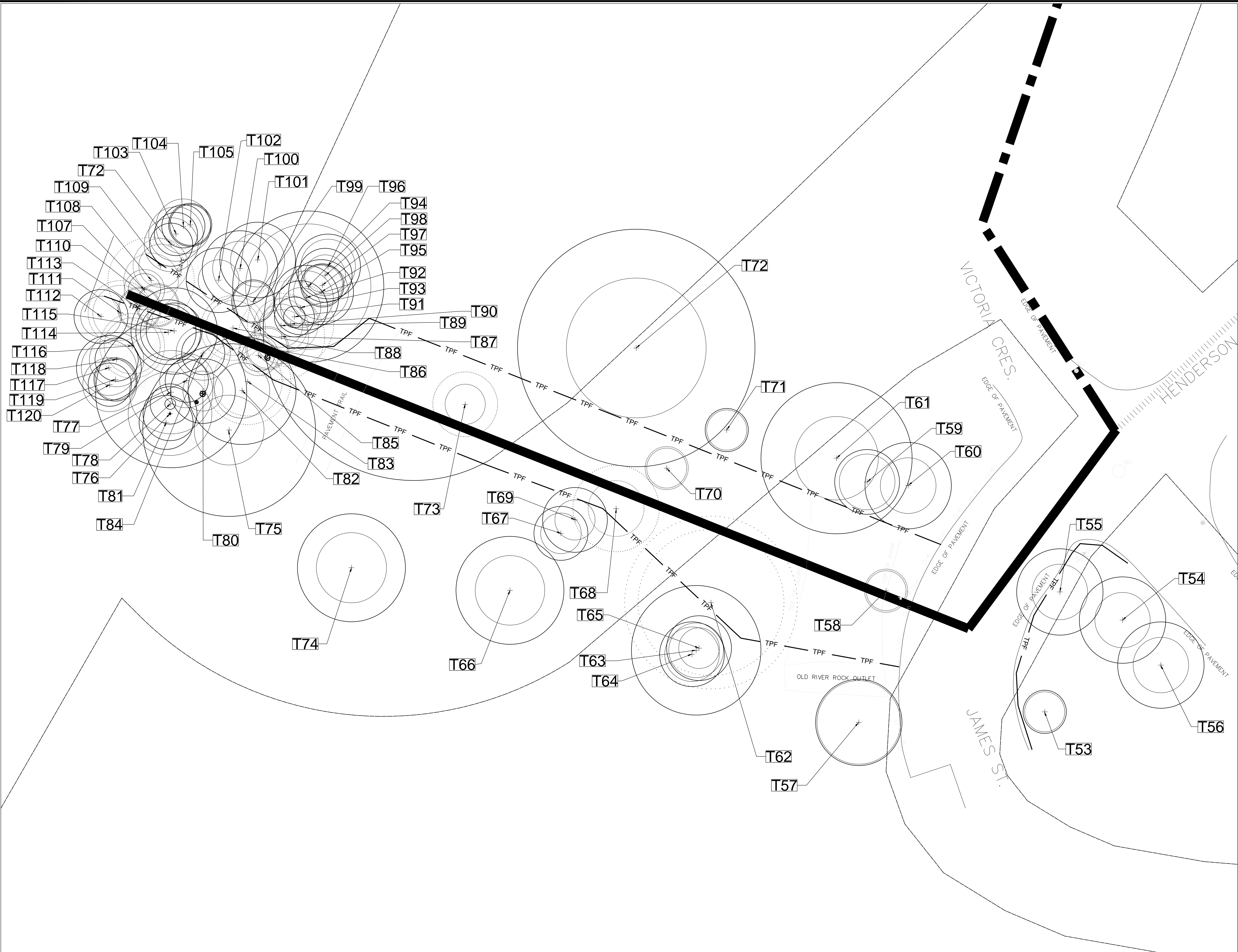
Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:150  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:

**TPP3**



FILEPATH: S:\AA\PROJECTS\2014\4-069A-20\VICTORIA CRESCENT\CAD\AA CAD\4-069A.TPP 2017.11.14.DWG CTR: AA020007.dwg PLOTTED: 14-Nov-17 12:48 PM



- LEGEND:
- EXISTING TREE  
ID NUMBER / CIRCLE ILLUSTRATES  
APPROXIMATE CROWN RESERVE
  - PRESERVE TREE  
TREE HAS MODERATE TO HIGH BIOLOGICAL  
HEALTH AND/OR STRUCTURAL CONDITION AND  
CAN BE INCORPORATED INTO THE PROPOSED  
DEVELOPMENT
  - REMOVE TREE  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR  
STRUCTURAL CONDITION
  - REMOVE TREE  
TREE IS IN CONFLICT WITH PROPOSED  
DEVELOPMENT
  - TPF TREE PROTECTION FENCE
  - ALTERNATIVE 2 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 3 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4B TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A & 4B TRUNK SEWER  
ALIGNMENT
  - EXISTING TRUNK SEWER ALIGNMENT

- INFORMATION SOURCES
- Storm sewer alignment alternatives dated August 2017 obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by About & Associates

0	FOR INTERNAL REVIEW	JD	21 NOV-17
No.	Description	By	Date

REVISIONS: All previous issues of this drawing are superseded

**About & Associates Inc.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7J5  
1-519-822-6839 • F: 519-822-4052 • info@aboutmg.com • www.aboutmg.com

**TREE PRESERVATION  
PLAN ALTERNATIVES 4A  
AND 4B**

Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017
Project: AA14-069A
Scale: 1:150
Designer: JD
Drawn: SK
Checked: JD

Drawing No: **TPP4**

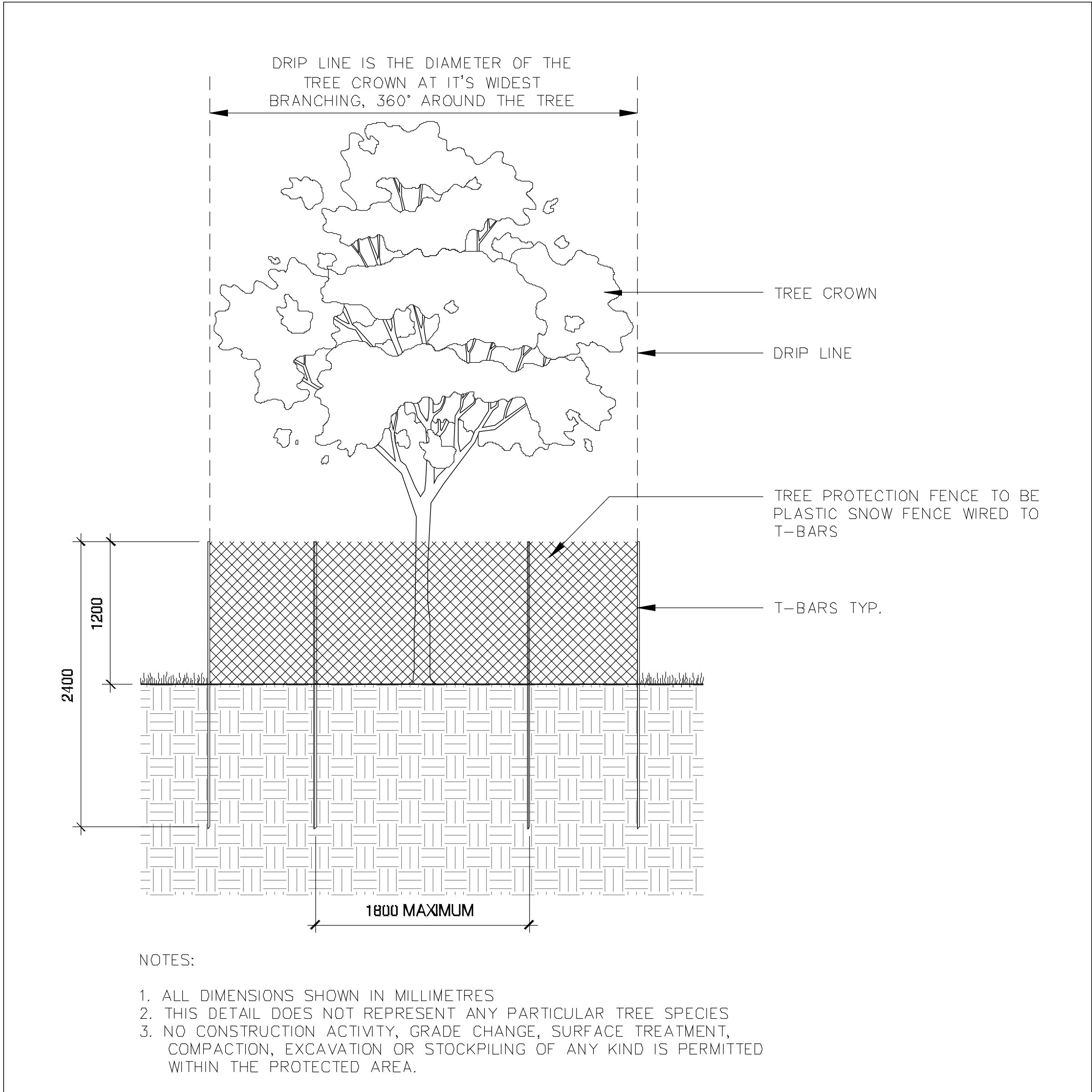


Tree No. (not tagged)	Tree Species	DBH (cm) *1,2	Minimum Tree Protection Zone (m, from outer edge of trunk) *3	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development	Ownership: Private (P), Office (O), Municipal (M), Shared (S)	Rec. Action - Condition: Preserve, Remove	Final Recommendation: Option 2: Preserve, Remove	Final Recommendation: Option 3: Preserve, Remove	Final Recommendation: Option 4: and 5: Preserve, Remove	Compensation Required: Yes (Y), No (N)	Comments
1	Acer platanoides Norway Maple	30	2.4	8	Co-Dominant	Fair	M	M	P	P	P	P	N	Seam
2	Acer platanoides Norway Maple	44	3.0	12	Co-Dominant	Good	MIB	M	P	P	P	P	N	
3	Acer saccharum Sugar Maple	14	1.8	8	Intermediate	Good	MIU	M	P	P	P	P	N	
4	Acer saccharum Sugar Maple	19	1.8	6	Intermediate	Good	M	M	P	RD	RD	P	N	
5	Acer platanoides Norway Maple	24	1.8	10	Dominant	Good	M	P	P	P	P	P	N	
6	Acer saccharum Sugar Maple	19	1.8	8	Co-Dominant	Good	M	P	P	P	P	P	N	
7	Acer saccharum Sugar Maple	10	1.8	5	Intermediate	Good	MIU	M	P	P	P	P	N	
8	Acer platanoides Norway Maple	18	1.8	11	Co-Dominant	Fair	MIU	P	P	P	P	P	N	
9	Acer saccharum Sugar Maple	21	1.8	10	Co-Dominant	Fair	M	P	P	P	P	P	N	
10	Acer saccharum Sugar Maple	19	1.8	8	Co-Dominant	Fair	M	P	P	P	P	P	N	Group
11	Acer platanoides Norway Maple	10	1.8	8	Suppressed	Fair	MIU	P	P	P	P	P	N	
12	Acer saccharum Sugar Maple	10	1.8	8	Intermediate	Good	MIU	P	P	P	P	P	N	
13	Acer saccharum Sugar Maple	22	1.8	14	Co-Dominant	Good	MIB	P	P	P	P	P	N	
14	Picea abies Norway Spruce	66	4.2	12	Dominant	Good	H	P	P	RD	P	P	N	
15	Picea abies Norway Spruce	78	4.8	12	Dominant	Fair	H	P	P	RD	P	P	N	Co-dominant leaders
16	Picea abies Norway Spruce	61	4.2	12	Dominant	Good	H	P	P	RD	P	P	N	Co-dominant leaders
17	Thuja occidentalis Eastern White Cedar	10	1.8	5	Suppressed	Good	MIU	P	P	P	P	P	N	
18	Thuja occidentalis Eastern White Cedar	12	1.8	4	Intermediate	Good	MIU	P	P	P	P	P	N	
19	Thuja occidentalis Eastern White Cedar	13	1.8	4	Intermediate	Good	MIU	P	P	P	P	P	N	
20	Prunus serotina Black Cherry	36	2.4	10	Intermediate	Good	MIB	P	P	P	P	P	N	
21	Picea abies Norway Spruce	78	4.8	14	Dominant	Good	H	P	P	RD	P	P	N	
22	Picea abies Norway Spruce	87	5.4	18	Dominant	Good	H	P	P	RD	P	P	N	
23	Acer platanoides Norway Maple	18	1.8	10	Intermediate	Fair	M	P	P	RD	P	P	N	Th
24	Acer platanoides Norway Maple	18 [14,12]	1.8	8	Intermediate	Fair	MIU	P	P	RD	P	P	N	
25	Acer platanoides Norway Maple	26	1.8	10	Intermediate	Fair	MIU	P	P	RD	P	P	N	Cankers
26	Juglans nigra Black Walnut	32	2.4	10	Dominant	Good	H	P	P	RD	P	P	N	
27	Juglans nigra Black Walnut	11	1.8	10	Suppressed	Poor	L	P	R	RC	RC	RC	N	Unbalanced crown, cankers
28	Acer negundo Manitoba Maple	15	1.8	10	Intermediate	Poor	L	P	R	RC	RC	RC	N	
29	Acer saccharum Sugar Maple	15	1.8	5	Intermediate	Poor	MIU	P	P	RD	P	P	N	
30	Acer platanoides Norway Maple	22	1.8	12	Co-Dominant	Good	M	P	P	P	RD	P	N	
31	Syringa vulgaris Common Lilac	11	1.8	2	Suppressed	Very Poor	L	P	R	RC	RC	RC	N	
32	Syringa vulgaris Common Lilac	12	1.8	5	Suppressed	Poor	L	P	R	RC	RC	RC	N	
33	Thuja occidentalis Eastern White Cedar	17	1.8	4	Suppressed	Fair	MIU	P	P	RD	RD	P	N	
34	Aesculus hippocastanum Horse Chestnut	17 [12,12]	1.8	10	Suppressed	Fair	M	P	P	RD	RD	P	N	
35	Aesculus hippocastanum Horse Chestnut	13	1.8	12	Suppressed	Fair	M	P	P	RD	RD	P	N	
36	Aesculus hippocastanum Horse Chestnut	17	1.8	8	Suppressed	Fair	M	P	P	RD	RD	P	N	
37	Picea abies Norway Spruce	76	4.8	14	Dominant	Fair	H	P	P	RD	RD	P	N	
38	Thuja occidentalis Eastern White Cedar	16	1.8	6	Suppressed	Fair	MIU	P	P	RD	RD	P	N	
39	Thuja occidentalis Eastern White Cedar	13	1.8	4	Suppressed	Poor	MIU	P	P	P	P	P	N	
40	Fraxinus pennsylvanica Green Ash	17	1.8	6	Suppressed	Good	MIU	P	P	P	P	P	N	
41	Thuja occidentalis Eastern White Cedar	34	2.4	6	Suppressed	Fair	M	P	P	P	P	P	N	
42	Juglans nigra Black Walnut	70	4.2	20	Dominant	Fair	H	P	P	RD	P	P	N	Growing around fence
43	Acer negundo Manitoba Maple	16	1.8	8	Suppressed	Poor	L	P	R	RCD	RC	RC	N	
44	Acer saccharum Sugar Maple	17	1.8	8	Suppressed	Good	M	P	P	P	P	P	N	
45	Ulmus americana White Elm	18	1.8	8	Intermediate	Fair	M	P	P	P	P	P	N	
46	Unknown	18	1.8	1	Suppressed	Dead		P	R	RC	RC	RC	N	Failed - should be removed
47	Picea abies Norway Spruce	45	3.0	12	Co-Dominant	Fair	H	P	P	P	P	P	N	
48	Picea abies Norway Spruce	46	3.0	10	Co-Dominant	Fair	H	P	P	P	P	P	N	
49	Picea abies Norway Spruce	38	2.4	10	Co-Dominant	Fair	H	P	P	P	P	P	N	
50	Picea sp. Spruce	39	2.4	8	Co-Dominant	Dead	L	P	R	RC	RC	RC	N	
51	Pinus strobus Eastern White Pine	14	1.8	6	Intermediate	Good	M	P	P	P	P	P	N	
52	Acer saccharum Sugar Maple	25	1.8	13	Dominant	Good	MIB	P	P	P	P	P	N	Crossing limbs

Tree No. (not tagged)	Tree Species	DBH (cm) *1,2	Minimum Tree Protection Zone (m, from outer edge of trunk) *3	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development	Ownership: Private (P), Office (O), Municipal (M), Shared (S)	Rec. Action - Condition: Preserve, Remove	Final Recommendation: Option 2: Preserve, Remove	Final Recommendation: Option 3: Preserve, Remove	Final Recommendation: Option 4: and 5: Preserve, Remove	Compensation Required: Yes (Y), No (N)	Comments
53	Acer saccharum Sugar Maple	11	1.8	4	Co-Dominant	Excellent	MIU	M	P	P	P	P	N	
54	Acer platanoides Norway Maple	32	2.4	8	Co-Dominant	Good	M	M	P	P	P	P	N	
55	Acer platanoides Norway Maple	34	2.4	8	Co-Dominant	Good	M	M	P	P	P	P	N	Co-dominant leaders
56	Acer platanoides Norway Maple	34	2.4	8	Co-Dominant	Good	M	M	P	P	P	P	N	
57	Thuja occidentalis Eastern White Cedar	55 [35,30,20,12]	3.6	8	Dominant	Fair	M	M	P	P	P	P	N	
58	Quercus rubra Red Oak	10	1.8	4	Dominant	Good	MIU	M	P	P	P	RD	N	Chloride; transplantable
59	Thuja occidentalis Eastern White Cedar	36	2.4	6	Intermediate	Good	M	M	P	P	P	P	N	
60	Thuja occidentalis Eastern White Cedar	36 [30,20]	2.4	8	Intermediate	Fair	M	M	P	P	P	P	N	
61	Acer saccharum Sugar Maple	53	3.6	14	Dominant	Good	H	M	P	P	P	P	N	
62	Prunus serotina Black Cherry	104	6.6	16	Dominant	Poor	M	M	P	P	P	RD	N	Decay in trunk; co-dominant leaders; db=1
63	Acer saccharum Sugar Maple	27	1.8	12	Co-Dominant	Fair	MIU	M	P	P	P	P	N	
64	Thuja occidentalis Eastern White Cedar	25	1.8	6	Intermediate	Fair	MIU	M	P	P	P	P	N	Group with sugar maple
65	Thuja occidentalis Eastern White Cedar	17	1.8	6	Suppressed	Fair	L	M	P	P	P	P	N	Group with sugar maple
66	Thuja occidentalis Eastern White Cedar	44 [33,27]	3.0	10	Co-Dominant	Fair	MIU	M	P	P	P	P	N	Co-dominant stems
67	Thuja occidentalis Eastern White Cedar	16	1.8	5	Intermediate	Good	L	M	P	P	P	P	N	
68	Thuja occidentalis Eastern White Cedar	37	2.4	8	Intermediate	Good	MIU	M	P	P	P	RD	N	
69	Thuja occidentalis Eastern White Cedar	12	1.8	6	Intermediate	Good	L	M	P	P	P	P	N	
70	Thuja occidentalis Eastern White Cedar	10	1.8	4	Intermediate	Good	L	M	P	P	P	RD	N	
71	Thuja occidentalis Eastern White Cedar	12	1.8	4	Intermediate	Good	MIU	M	P	P	P	P	N	
72	Prunus serotina Black Cherry	95 [52,80]	6.0	22	Co-Dominant	Fair	M	M	P	P	P	P	N	Co-dominant stems
73	Fagus grandifolia American Beech	12	1.8	6	Intermediate	Good	MIU	M	P	P	P	RD	N	Transplantable
74	Prunus serotina Black Cherry	50	3.0	10	Dominant	Fair	MIB	M	P	P	P	P	N	Co-dominant leaders
75	Prunus serotina Black Cherry	47 [38,28]	3.0	16	Co-Dominant	Fair	M	M	P	P	P	P	N	
76	Thuja occidentalis Eastern White Cedar	55 [32,28,23,20,18]	3.6	5	Intermediate	Fair	M	M	P	P	P	P	N	Goes to 2; actually a stump
77	Thuja occidentalis Eastern White Cedar	22	1.8	4	Suppressed	Fair	M	M	P	P	P	P	N	
78	Thuja occidentalis Eastern White Cedar	12	1.8	1	Suppressed	Dead	L	M	R	RC	RC	RC	N	
79	Tilia americana Basswood	32 [38,36]	3.6	14	Intermediate	Very Poor	MIU	M	P	P	P	P	N	Co-dominant stems; one stem with decay and past failure
80	Acer saccharum Sugar Maple	10	1.8	6	Suppressed	Good	M	M	P	P	P	P	N	
81	Thuja occidentalis Eastern White Cedar	21	1.8	5	Intermediate	Fair	M	M	P	P	P	P	N	
82	Thuja occidentalis Eastern White Cedar	33 [31,12]	2.4	10	Intermediate	Fair	M	M	P	P	P	P	N	
83	Thuja occidentalis Eastern White Cedar	41 [31,27]	3.0	8	Intermediate	Fair	M	M	P	P	P	RD	N	
84	Thuja occidentalis Eastern White Cedar	22	1.8	4	Suppressed	Fair	M	M	P	P	P	P	N	
85	Thuja occidentalis Eastern White Cedar	15	1.8	3	Suppressed	Fair	MIU	M	P	P	P	RD	N	
86	Thuja occidentalis Eastern White Cedar	13	1.8	4	Suppressed	Fair	MIU	M	P	P	P	RD	N	
87	Thuja occidentalis Eastern White Cedar	20	1.8	8	Intermediate	Fair	M	M	P	P	P	RD	N	
88	Thuja occidentalis Eastern White Cedar	28	1.8	6	Co-Dominant	Fair	M	M	P	P	P	RD	N	
89	Thuja occidentalis Eastern White Cedar	20	1.8	4	Intermediate	Fair	MIU	M	P	P	P	RD	N	
90	Thuja occidentalis Eastern White Cedar	33	2.4	8	Intermediate	Fair	M	M	P	P	P	RD	N	
91	Thuja occidentalis Eastern White Cedar	10	1.8	2	Suppressed	Very Poor	L	M	R	RC	RC	RC	N	Nearly dead
92	Thuja occidentalis Eastern White Cedar	20	1.8	6	Intermediate	Fair	M	M	P	P	P	P	N	
93	Thuja occidentalis Eastern White Cedar	13	1.8	5	Intermediate	Fair	MIU	M	P	P	P	P	N	
94	Prunus serotina Black Cherry	81 [71,38]	5.4	14	Dominant	Fair	MIB	M	P	P	P	P	N	
95	Thuja occidentalis Eastern White Cedar	28 [22,18]	1.8	6	Intermediate	Fair	MIU	M	P	P	P	P	N	
96	Thuja occidentalis Eastern White Cedar	26	1.8	6	Intermediate	Fair	M	M	P	P	P	P	N	
97	Thuja occidentalis Eastern White Cedar	16	1.8	4	Intermediate	Fair	MIU	M	P	P	P	P	N	
98	Thuja occidentalis Eastern White Cedar	19	1.8	5	Intermediate	Fair	M	M	P	P	P	P	N	
99	Thuja occidentalis Eastern White Cedar	15	1.8	4	Intermediate	Fair	MIU	M	P	P	P	P	N	
100	Thuja occidentalis Eastern White Cedar	27 [22,16]	1.8	7	Intermediate	Fair	MIU	M	P	P	P	P	N	
101	Thuja occidentalis Eastern White Cedar	21 [16,13]	1.8	7	Intermediate	Fair	MIU	M	P	P	P	P	N	
102	Thuja occidentalis Eastern White Cedar	18	1.8	6	Suppressed	Fair	MIU	M	P	P	P	P	N	
103	Thuja occidentalis Eastern White Cedar	20	1.8	4	Intermediate	Fair	MIU	M	P	P	P	P	N	
104	Thuja occidentalis Eastern White Cedar	27	1.8	4	Intermediate	Fair	M	M	P	P	P	P	N	

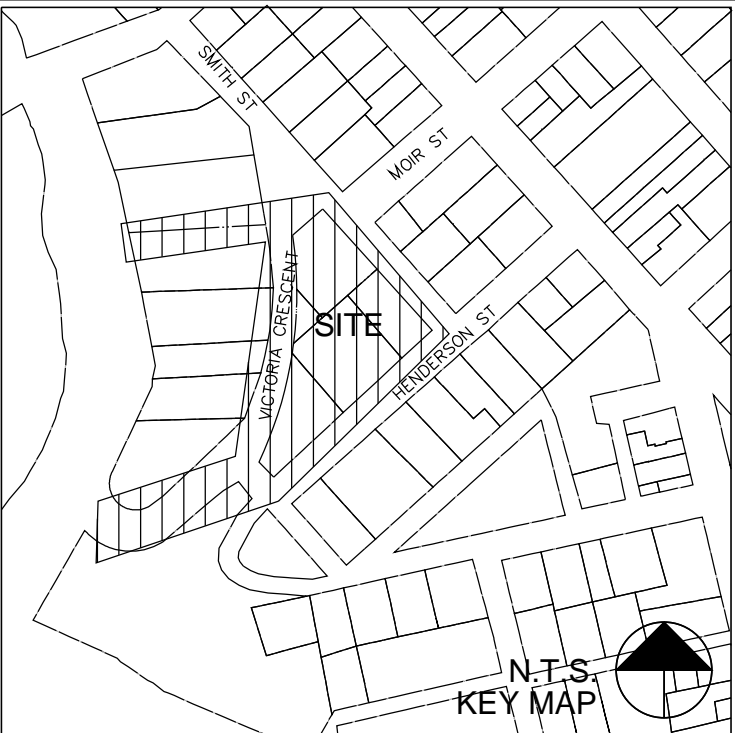
Tree No. (not tagged)	Tree Species	DBH (cm) *1,2	Minimum Tree Protection Zone (m, from outer edge of trunk) *3	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development		Ownership: Private (P), Office (O), Municipal (M), Shared (S)	Rec. Action - Condition: Preserve, Remove	Final Recommendation, Option 1: Preserve, Remove	Final Recommendation, Option 2: Preserve, Remove	Final Recommendation, Option 3: Preserve, Remove	Final Recommendation, Option 4a and 4b: Preserve, Remove	Compensation Required: Yes (Y), No (N)	Comments
105	Thuja occidentalis Eastern White Cedar	18	1.8	4	Suppressed	Poor	L	M	R	RC	RC	RC	RC	N		Cavity and decay in trunk
106	Thuja occidentalis Eastern White Cedar	24	1.8	4	Intermediate	Fair	M	M	P	P	P	P	P	N		Metal in tree
107	Thuja occidentalis Eastern White Cedar	14	1.8	3	Suppressed	Fair	L	M	P	P	P	P	RD	N		
108	Betula alleghaniensis Yellow Birch	28 [18,10]	1.8	8	Intermediate	Fair	M	M	P	P	P	P	RD	N		
109	Thuja occidentalis Eastern White Cedar	27	1.8	4	Intermediate	Fair	M	M	P	P	P	P	RD	N		
110	Thuja occidentalis Eastern White Cedar	18	1.8	4	Suppressed	Fair	MIU	M	P	P	P	P	RD	N		
111	Thuja occidentalis Eastern White Cedar	32 [26,18]	2.4	6	Intermediate	Fair	MIU	M	P	P	P	P	RD	N		
112	Thuja occidentalis Eastern White Cedar	18	1.8	5	Suppressed	Fair	MIU	M	P	P	P	P	P	N		
113	Thuja occidentalis Eastern White Cedar	18	1.8	4	Suppressed	Fair	MIU	M	P	P	P	P	RD	N		
114	Tilia americana Basswood	36	2.4	6	Intermediate	Very Poor	L	M	R	RC	RC	RC	RCD	N		
115	Tilia americana Basswood	38	2.4	8	Co-Dominant	Poor	L	M	R	RC	RC	RC	RCD	N		
116	Thuja occidentalis Eastern White Cedar	39 [28,24,14]	2.4	6	Intermediate	Poor	MIU	M	P	P	P	P	RD	N		One dead stem; multiple leaders
117	Thuja occidentalis Eastern White Cedar	31 [24,20]	2.4	6	Intermediate	Fair	M	M	P	P	P	P	P	N		
118	Thuja occidentalis Eastern White Cedar	24	1.8	4	Intermediate	Fair	M	M	P	P	P	P	P	N		
119	Thuja occidentalis Eastern White Cedar	17	1.8	4	Suppressed	Fair	M	M	P	P	P	P	P	N		
120	Thuja occidentalis Eastern White Cedar	20	1.8	4	Suppressed	Fair	M	M	P	P	P	P	P	N		
Ownership:					Private (On Site) Trees				47							
					Private (Off Site) Trees				0							
					Municipal Trees				73							
					Shared Trees				0							
					Total				120							
Recommendation Based on Condition:					Preserve Tree Based on Health & Structure				108							
					Remove Tree Based on Health & Structure				12							
					Total				120							
Final Recommendation:		Final Recommendation: Preserve (P)							90	100	89					
		Final Recommendation: Remove due to Condition (RC)							11	12	10					
		Final Recommendation: Remove due to Development (RD)							18	8	19					
		Final Recommendation: Remove due to Condition & Development (RCD)							1	0	2					
					Total				120	120	120					
1	Diameter at breast height; diameter of tree measured at 1.4 metres above grade															
2	Multiple stems are denoted in brackets with the calculated DBH presented first.															
3	Minimum tree protection zones per the City of Guelph Tree Protection Zone Detail SD-90a (January 2011)															





TREE PRESERVATION NOTES

1. All dimensions are in metres.
2. Tree removals will be undertaken in compliance with the Migratory Birds Convention Act. Efforts will be made to remove vegetation outside the General Nesting period (April 1 - Aug 31) for regions C1 and C2 of Ontario. In the event vegetation must be removed within the General Nesting Period, a qualified avian biologist is to review the site prior to removal to ensure compliance with the Migratory Birds Convention Act.
3. Contractor shall verify all conditions in the field and report any discrepancies to the Project Arborist prior to commencement of work.
4. All utilities not necessarily shown on this plan, Aboud & Associates assumes no responsibility for the accuracy of any utilities on this plan.
5. Erect tree protection fence prior to the commencement of any construction or grading, maintain tree protection barrier throughout entire duration of the work.
6. Project Arborist to notify the Township for tree protection fence inspection prior to commencement of construction or grading work.
7. Any soils and vegetation within tree protection zone damaged by the Contractor shall be restored to the satisfaction of the Township by the Contractor at no additional cost to the Owner.
8. Prune and mitigate limbs and roots damaged by construction work in accordance with ANSI A300 (Part 1) - 2008 Pruning and the Best Management Practices companion publication (revised 2008).
9. Final action for offsite trees recommended for preservation or removal to be determined by individual landowners subject to the approval of the Township.



LEGEND:

INFORMATION SOURCES

1. Storm sewer alignment alternatives dated August 2017 obtained from Triton Engineering Services
2. Tree information collected September 12, 2017 by Aboud & Associates

No.	Description	By	Date
0	FOR INTERNAL REVIEW	JD	21 NOV-17

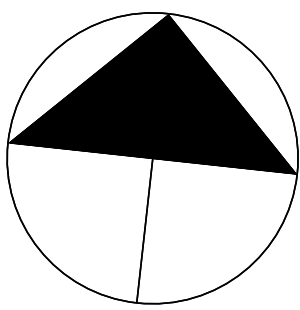
REVISIONS: All previous issues of this drawing are superceded

**ABOUT & ASSOCIATES INC.**  
Consulting Arborists • Ecologists • Landscape Architects

190 Niclin Road, Guelph, Ontario, Canada, N1H 7J5  
1-519-822-6839 • F: 519-822-4052 • info@aboudtg.com • www.aboudtg.com

TREE PRESERVATION  
PLAN DETAILS

Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION**  
TOWNSHIP OF CENTRE WELINGTON



Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: NTS  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:

**TPP6**



## Lindsay Scott

---

**From:** James Dennis <James@aboudtng.com>  
**Sent:** November 27, 2017 5:14 PM  
**To:** Lindsay Scott  
**Cc:** Paul Ziegler  
**Subject:** Victoria Crescent Outfall - Spruce Tree Age

Good morning, Lindsay.

Thanks for your request regarding the age of the Norway Spruce trees between 200 and 190 Victoria Crescent. Without using direct mensurative methods (increment borer, resistograph, tree ring analysis), the precision of any estimate is quite low. However, the tree size, height and condition taken into account relative to the tree species and growing conditions can provide some reasonable estimate of tree age.

In Norway Spruce's native range, the trees can live to around 250-300 years. Maximum heights there have been measured at 35-40 metres, however in North America the heights are generally lower, with some maxima listed as 25 metres. Annual growth in Europe is documented as 0.7 – 1.0 m, where in North America these are lower (i.e., 35 – 60 cm annually). In Europe, the fastest growth occurs between 35-65 years. No silvicultural data on growth rate for Norway Spruce exist for North America.

Our inventory found six Norway Spruce individuals. Their sizes ranged between 61 – 87 cm DBH (Diameter at Breast Height), with crown reserves/driplines ranging in width from approximately 12 – 18 metres and heights estimated at 20 m. All were in Fair or Good condition. Based on the silvicultural information from Europe, and how that information relates to the North American condition, the estimated age of these trees is at least 70 years old. The largest diameter tree (Tree 22) could be older, however it could also be growing in a more favourable location. We know there is a storm drain under these trees somewhere, and a minor leak in that area could provide additional water to the tree that others aren't getting, or of which they are getting proportionately less. I think height is probably the best indicator of age for these trees, since the horizontal sizes (DBH, Crown Reserve) are relatively more variable. A definitive measurement would improve the accuracy of the current height estimate, but ultimately the precision of the age estimate will still be low.

Sincerely,

**James Dennis, M.Sc.F.** . Partner . Arboriculture Lead  
ISA Certified Arborist . ISA TRAQ Certified . MNRF Certified Butternut Health Assessor . MNRF Certified in Ecological Land Classification  
**ABOUD & ASSOCIATES INC.** 190 Nicklin Road . Guelph . Ontario . N1H 7L5  
T:519.822.6839 ext. 2 . F:519.822.4052 . C:226.343.0757 [www.aboudtng.com](http://www.aboudtng.com) . [james@aboudtng.com](mailto:james@aboudtng.com)



## Lindsay Scott

---

**From:** James Dennis [mailto:James@aboutdng.com]

**Sent:** November 27, 2017 2:51 PM

**To:** Lindsay Scott <lscott@tritoneng.on.ca>

**Subject:** RE: M6186A - Assessment of Impact to Vegetation for Victoria Crescent Trunk Storm Sewer Replacement, Elora

Hi Lindsay,

The compensation column indicates whether the Township requires compensation (by way of replanting trees) as a condition of removing that tree. At this point, the column is really a placeholder. Once we know what the preferred solution will be, we can calculate compensation. The Township requires 2 trees to be planted for every regulated tree that is removed (regulated: private tree greater than 10cm DBH). Whether Township projects require compensation take place is not something I'm sure about, as I don't think we've dealt with the policy on a public project.

For the time being, I think it's best to leave them all as 'N', since we don't know officially what alternative is the preferred and can't clearly state then what compensation is required.

James

---

**From:** Lindsay Scott [mailto:lscott@tritoneng.on.ca]

**Sent:** November-27-17 2:27 PM

**To:** James Dennis

**Subject:** RE: M6186A - Assessment of Impact to Vegetation for Victoria Crescent Trunk Storm Sewer Replacement, Elora

Hi James,

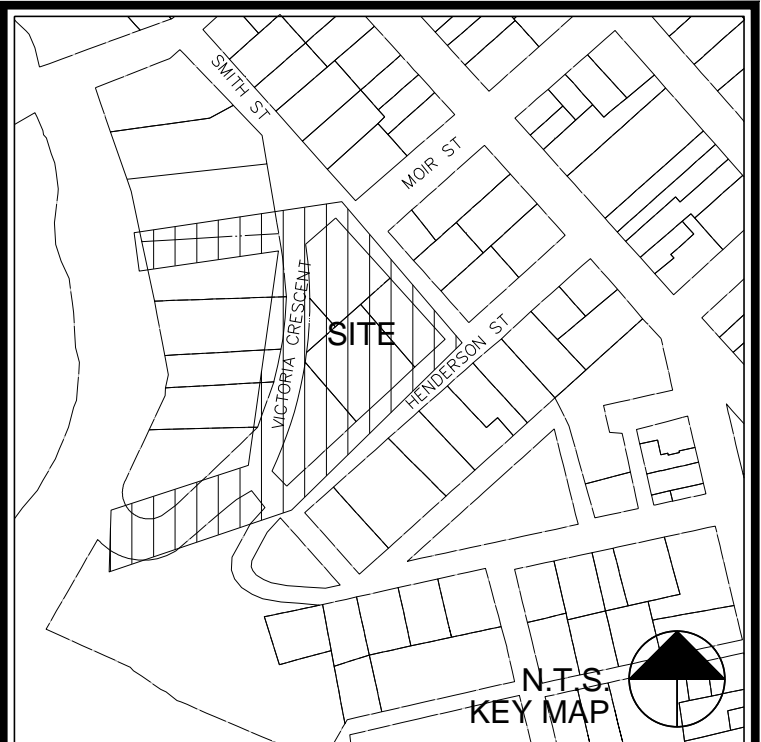
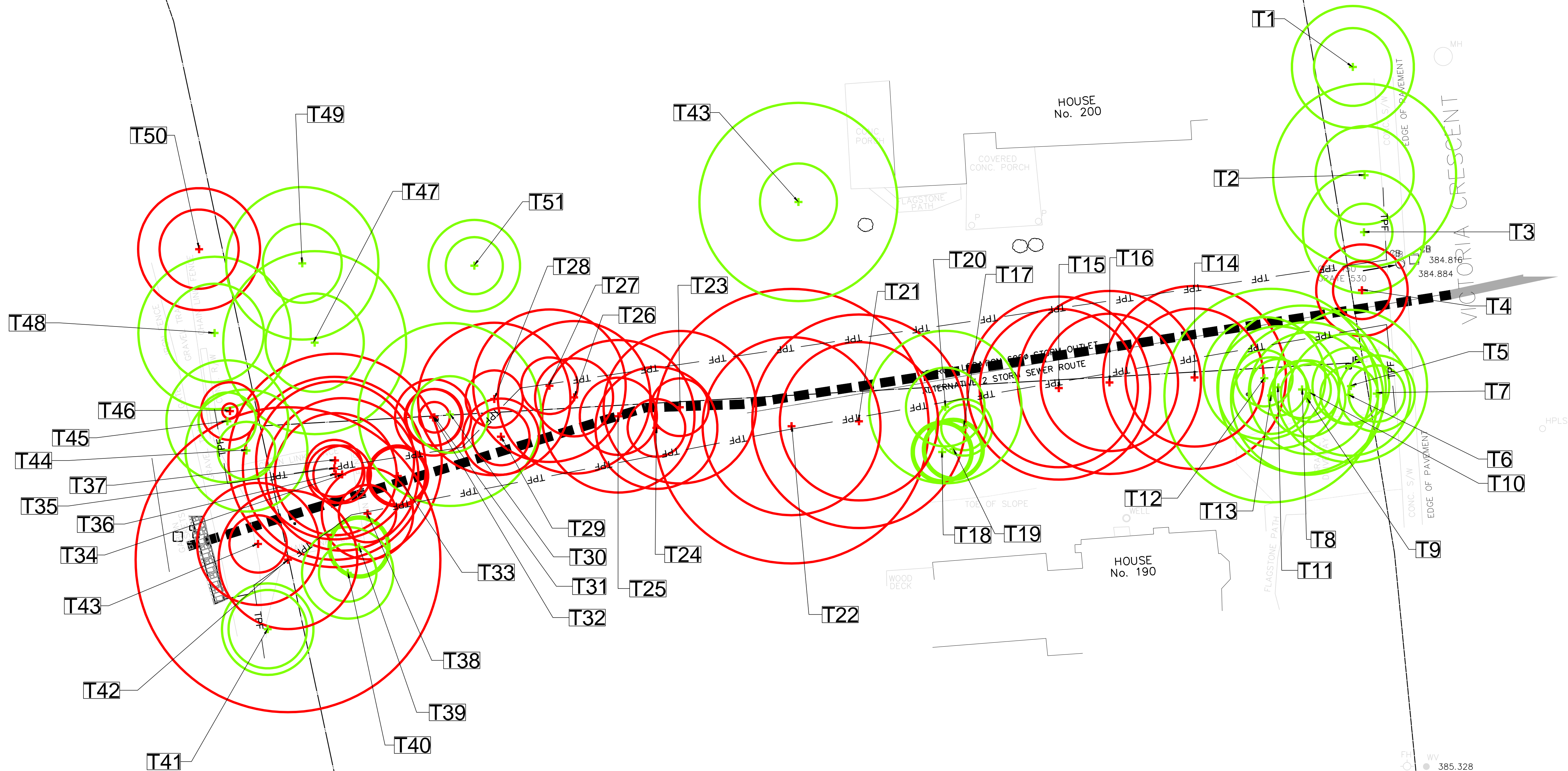
I was also wondering about the column "Compensation Required" in the summary table for the TPP. Can you please provide a brief description of how the requirement for compensation is determined?

Thank you.

Lindsay



FILEPATH: S:\44-PROJECTS\2014-08\AA-20-VICTORIA CRESCENT\CAD\AA CAD\NETS\SHARED\TPP14-089A.TPP 2014-08-25 10:23 PM CTE\_C:\Users\jgibbs\Documents\TPP14-089A.TPP 2014-08-25 10:23 PM CTE



- LEGEND:
- EXISTING TREE  
ID NUMBER / CIRCLE ILLUSTRATES  
APPROXIMATE CROWN RESERVE
  - PRESERVE TREE  
TREE HAS MODERATE TO HIGH BIOLOGICAL  
HEALTH AND/OR STRUCTURAL CONDITION AND  
CAN BE INCORPORATED INTO THE PROPOSED  
DEVELOPMENT
  - REMOVE TREE  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR  
STRUCTURAL CONDITION, OR TREE IS IN  
CONFLICT WITH PROPOSED DEVELOPMENT
  - TPF TREE PROTECTION FENCE
  - ALTERNATIVE 2 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 3 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4B TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A & 4B TRUNK SEWER  
ALIGNMENT
  - EXISTING TRUNK SEWER ALIGNMENT

DRAFT

- INFORMATION SOURCES
- Storm sewer alignment alternatives dated August 2017  
obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by  
Aboud & Associates

0	FOR INTERNAL REVIEW	JD	21 NOV-17
No.	Description	By	Date

REVISIONS: All previous issues of this drawing are superseded

**ABOUD & ASSOCIATES INC.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7J5  
T: 519.822.6839 • F: 519.822.4052 • info@aboudmg.com • www.aboudmg.com

Title:  
**TREE PRESERVATION  
PLAN ALTERNATIVE 2**

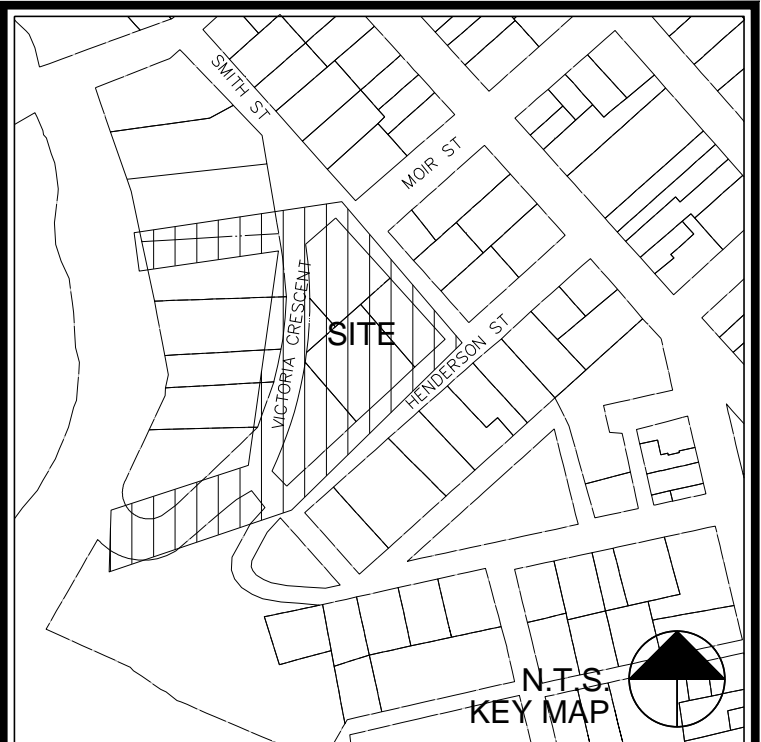
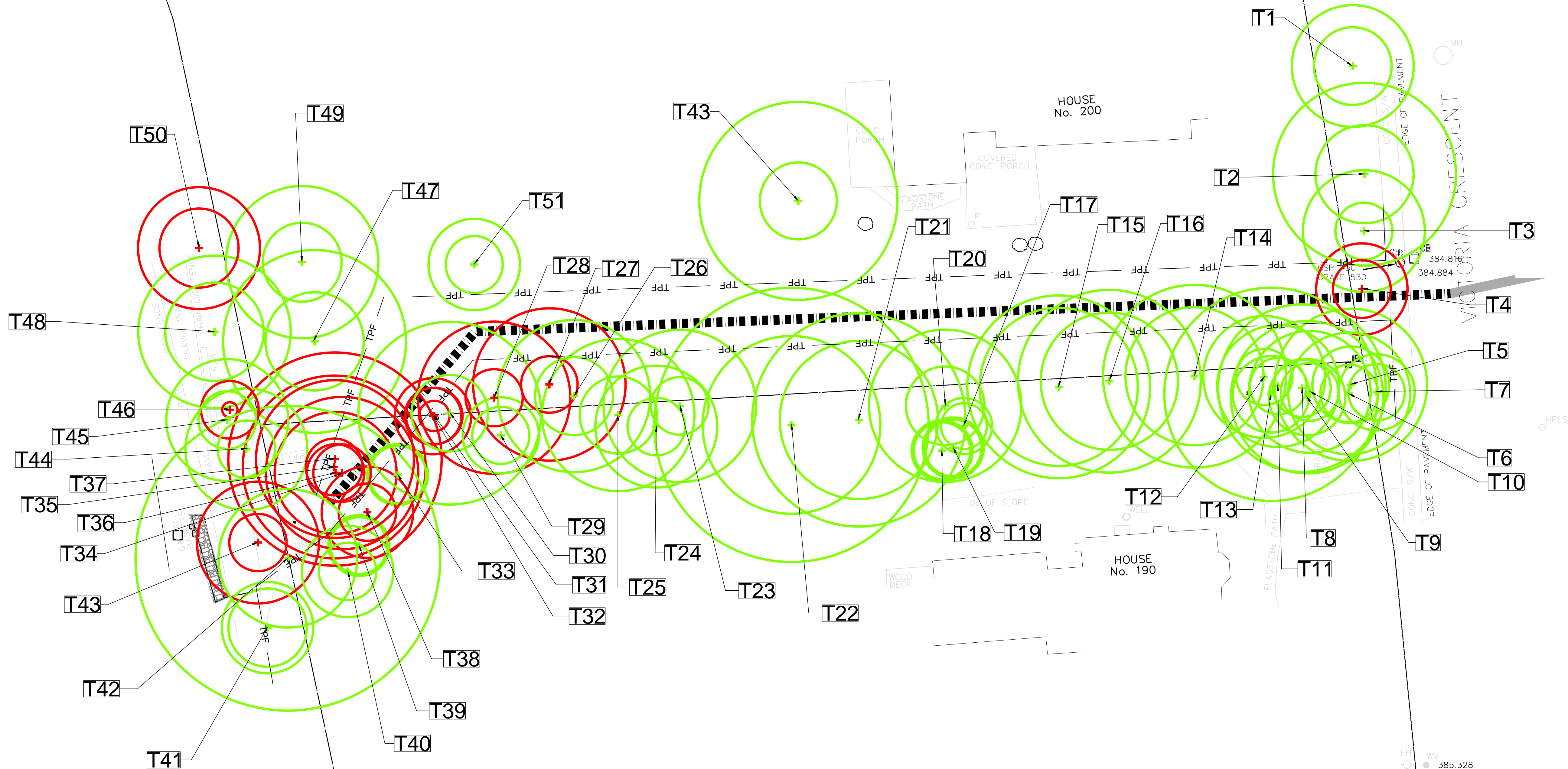
Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:150  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:  
**TPP2**



FILEPATH: S:\44-PROJECTS\2014-08\A-20-VICTORIA CRESCENT\CAD\AA CAD\NETS\GENERATED\TPP14-069A.TPP 2014-04-25 TEST.DWG CTE: C:\work\mkg\ab.ctb PLOTTED: 23-Apr-18 12:23 PM



- LEGEND:**
- EXISTING TREE**  
ID NUMBER / CIRCLE ILLUSTRATES APPROXIMATE CROWN RESERVE
  - PRESERVE TREE**  
TREE HAS MODERATE TO HIGH BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT
  - REMOVE TREE**  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION, OR TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT
  - TPF** **TREE PROTECTION FENCE**
  - ALTERNATIVE 2 TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 3 TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4A TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4B TRUNK SEWER ALIGNMENT**
  - ALTERNATIVE 4A & 4B TRUNK SEWER ALIGNMENT**
  - EXISTING TRUNK SEWER ALIGNMENT**

**DRAFT**

- INFORMATION SOURCES**
- Storm sewer alignment alternatives dated August 2017 obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by Aboud & Associates

No.	Description	By	Date
0	FOR INTERNAL REVIEW	JD	21 NOV-17

**REVISIONS:** All previous issues of this drawing are superseded

**Aboud & Associates Inc.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7J5  
T: 519.822.6839 • F: 519.822.4052 • info@aboudmg.com • www.aboudmg.com

Title:  
**TREE PRESERVATION  
PLAN ALTERNATIVES 3**

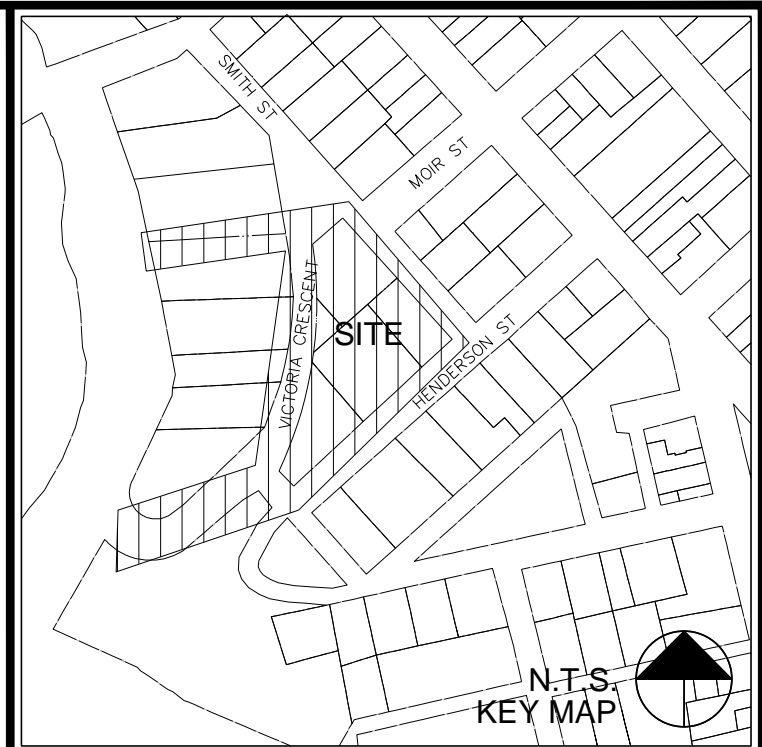
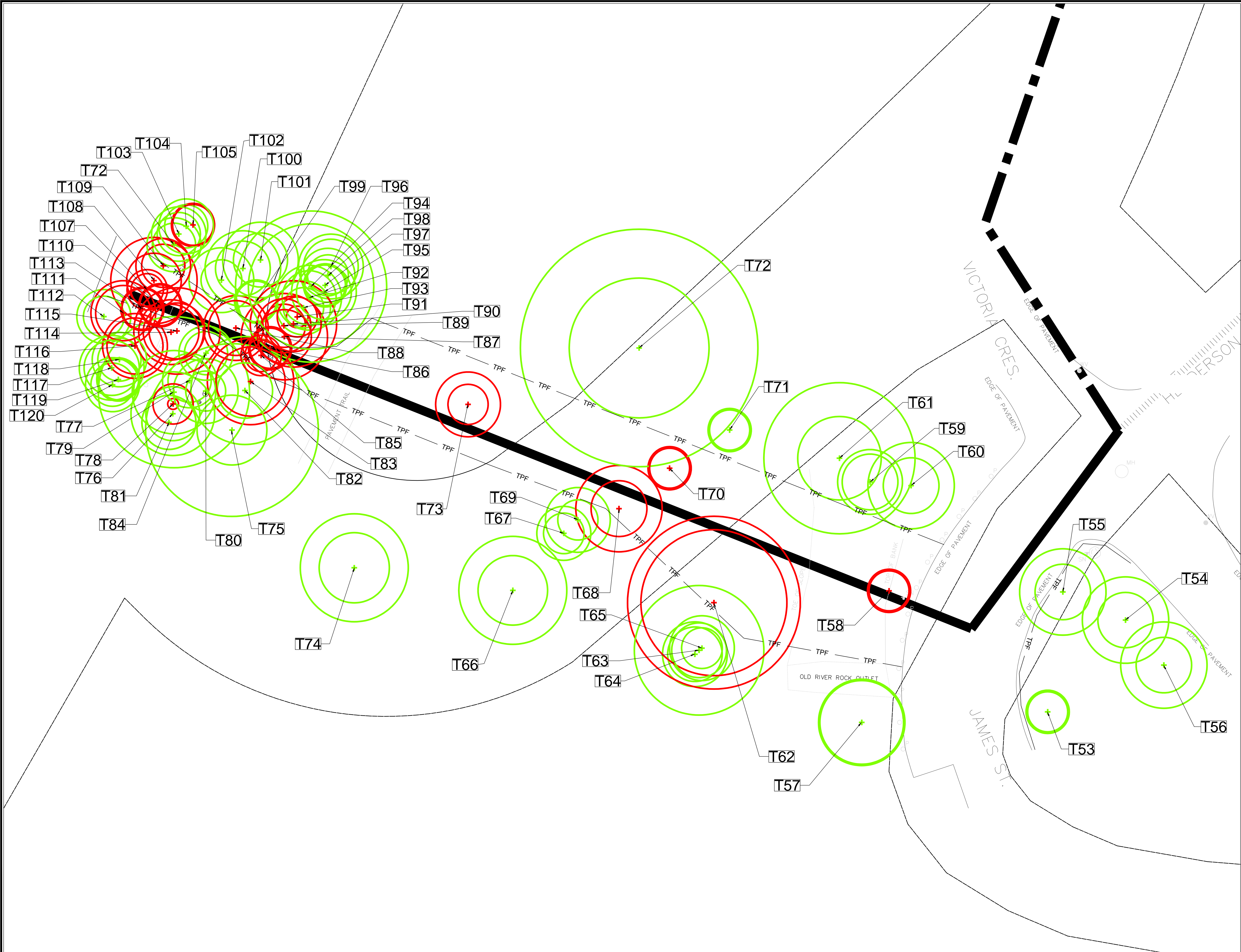
Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:150  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:  
**TPP3**



FILEPATH: S:\AA\PROJECTS\2014\069A\200 VICTORIA CRESCENT\CAD\AA CAD\REF\ENGINEERED\TPP4-069A.TPP 2018-04-27 12:23 PM C:\B...\_On\dwg\tpg4.dwg PLOTTED:23-Apr-18 12:23 PM



- LEGEND:
- EXISTING TREE  
ID NUMBER / CIRCLE ILLUSTRATES  
APPROXIMATE CROWN RESERVE
  - PRESERVE TREE  
TREE HAS MODERATE TO HIGH BIOLOGICAL  
HEALTH AND/OR STRUCTURAL CONDITION AND  
CAN BE INCORPORATED INTO THE PROPOSED  
DEVELOPMENT
  - REMOVE TREE  
TREE HAS LOW BIOLOGICAL HEALTH AND/OR  
STRUCTURAL CONDITION, OR TREE IS IN  
CONFLICT WITH PROPOSED DEVELOPMENT
  - TPF TREE PROTECTION FENCE
  - ALTERNATIVE 2 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 3 TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4B TRUNK SEWER  
ALIGNMENT
  - ALTERNATIVE 4A & 4B TRUNK SEWER  
ALIGNMENT
  - EXISTING TRUNK SEWER ALIGNMENT

DRAFT

- INFORMATION SOURCES
- Storm sewer alignment alternatives dated August 2017  
obtained from Triton Engineering Services
  - Tree information collected September 12, 2017 by  
Aboud & Associates

0	FOR INTERNAL REVIEW	JD	21 NOV-17
No.	Description	By	Date

REVISIONS: All previous issues of this drawing are superseded

**Aboud & Associates Inc.**  
Consulting Arborists • Ecologists • Landscape Architects  
190 Niclén Road, Guelph, Ontario, Canada, N1H 7J5  
T: 519.822.6839 • F: 519.822.4052 • info@aboudmg.com • www.aboudmg.com

Title:  
**TREE PRESERVATION  
PLAN ALTERNATIVES 4A  
AND 4B**

Project:  
**VICTORIA CRESCENT  
STORM DRAIN OUTLET  
RECONSTRUCTION  
TOWNSHIP OF CENTRE WELINGTON**

Date: NOVEMBER 2017  
Project: AA14-069A  
Scale: 1:150  
Designer: JD  
Drawn: SK  
Checked: JD

Drawing No:  
**TPP4**



## **Appendix F**

### **Summary of Drinking Water Threats (MECP Source Protection Information Atlas)**



Wellhead Protection Area B  
Summary of Activities that Pose Drinking Water Threats

Wellhead Protection Area	WHPA Vulnerability Score	Risk	Threat Sub Category	MaterialSource
B	10	Significant	The Application of Hauled Sewage to Land\r\n	Chemical
B	10	Significant	The Application of Hauled Sewage to Land\r\n	Pathogen
B	10	Significant	Storage, Treatment And Discharge Of Tailings From Mines	Chemical
B	10	Significant	Waste Disposal Site - Landfarming Of Petroleum Refining Waste	Chemical
B	10	Significant	Waste Disposal Site - Landfilling (Hazardous Waste)	Chemical
B	10	Significant	Waste Disposal Site - Landfilling (Municipal Waste)	Chemical
B	8	Significant	Waste Disposal Site - Landfilling (Municipal Waste)	Chemical
B	10	Significant	Waste Disposal Site - Landfilling (Solid Non Hazardous Industrial or Commercial)	Chemical
B	8	Significant	Waste Disposal Site - Landfilling (Solid Non Hazardous Industrial or Commercial)	Chemical
B	10	Significant	Waste Disposal Site - Liquid Industrial Waste Injection into a well	Chemical
B	8	Significant	Waste Disposal Site - Liquid Industrial Waste Injection into a well	Chemical
B	10	Significant	Waste Disposal Site - PCB Waste Storage	Chemical
B	10	Significant	Waste Disposal Site - Storage Of Hazardous Waste At Disposal Sites	Chemical
B	10	Significant	Waste Disposal Site - Storage of wastes described in clauses (p), (q), (r), (s), (t) or (u) of the definition of hazardous waste	Chemical
B	10	Significant	Sewage System or Sewage Works - Stormwater Management Facility	Chemical
B	10	Significant	Sewage System Or Sewage Works - Sanitary Sewers and related pipes	Chemical
B	10	Significant	Sewage System Or Sewage Works - Sanitary Sewers and related pipes	Pathogen
B	10	Significant	Sewage System or Sewage Works - Onsite Sewage Systems\r\n	Chemical
B	10	Significant	Sewage System or Sewage Works - Onsite Sewage Systems\r\n	Pathogen
B	10	Significant	Sewage System or Sewage Works - Onsite Sewage Systems Holding Tanks\r\n	Chemical
B	10	Significant	Sewage System or Sewage Works - Onsite Sewage Systems Holding Tanks\r\n	Pathogen
B	10	Significant	Sewage System Or Sewage Works - Sewage Treatment Plant Effluent Discharges (Includes Lagoons)	Chemical
B	10	Significant	Sewage System Or Sewage Works - Sewage Treatment Plant Effluent Discharges (Includes Lagoons)	Pathogen
B	10	Significant	Sewage System or Sewage Works - Sewage Storage - Treatment or Holding Tanks	Chemical
B	8	Significant	Sewage System or Sewage Works - Sewage Storage - Treatment or Holding Tanks	Chemical
B	10	Significant	Sewage System or Sewage Works - Sewage Storage - Treatment or Holding Tanks	Pathogen
B	10	Significant	Application Of Agricultural Source Material (ASM) To Land	Chemical
B	10	Significant	Application Of Agricultural Source Material (ASM) To Land	Pathogen
B	10	Significant	Storage Of Agricultural Source Material (ASM)	Chemical
B	10	Significant	Storage Of Agricultural Source Material (ASM)	Pathogen
B	10	Significant	Application of Non-Agricultural Source Material (NASM) or Biosolids to Land	Chemical
B	10	Significant	Application of Non-Agricultural Source Material (NASM) or Biosolids to Land	Pathogen
B	10	Significant	Storage of Non-Agricultural Source Material (NASM)	Chemical
B	10	Significant	Storage of Non-Agricultural Source Material (NASM)	Pathogen
B	10	Significant	Application Of Commercial Fertilizer To Land	Chemical
B	10	Significant	Storage Of Commercial Fertilizer	Chemical
B	10	Significant	Application Of Pesticide To Land	Chemical
B	10	Significant	Storage Of A Pesticide	Chemical
B	10	Significant	Application Of Road Salt	Chemical
B	10	Significant	Storage Of Road Salt	Chemical
B	10	Significant	Storage Of Snow	Chemical
B	10	Significant	Handling Of Fuel	Chemical
B	10	Significant	Storage Of Fuel	Chemical
B	8	Significant	Handling Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical
B	10	Significant	Handling Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical
B	8	Significant	Storage Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical
B	10	Significant	Storage Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical
B	10	Significant	Storage Of An Organic Solvent	Chemical
B	10	Significant	Management Of Runoff Containing Chemicals Used In The De-Icing Of Aircrafts	Chemical
B	10	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Grazing and pasturing)	Chemical
B	10	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Grazing and pasturing)	Pathogen



Wellhead Protection Area B  
Summary of Activities that Pose Drinking Water Threats

Wellhead Protection Area	WHPA Vulnerability Score	Risk	Threat Sub Category	MaterialSource
B	10	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Yards or confinement)	Chemical
B	10	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Yards or confinement)	Pathogen
B	10	Significant	Pipelines above ground\r\n	Chemical
B	10	Significant	Pipelines within or under a water body\r\n	Chemical
B	10	Significant	Pipelines below ground\r\n	Chemical
C	8	Significant	Waste Disposal Site - Landfilling (Municipal Waste)	Chemical
C	8	Significant	Waste Disposal Site - Landfilling (Solid Non Hazardous Industrial or Commercial)	Chemical
C	8	Significant	Waste Disposal Site - Liquid Industrial Waste Injection into a well	Chemical
C	8	Significant	Sewage System or Sewage Works - Sewage Storage - Treatment or Holding Tanks	Chemical
C	8	Significant	Handling Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical
C	8	Significant	Storage Of A Dense Non Aqueous Phase Liquid (DNAPL)	Chemical

Data Source: MECP Source Protection Information Atlas



Intake Protection Zone 3  
Summary of Activities that Pose Drinking Water Threats

Intake Protection Zone (IPZ)	IPZ Vulnerability Score	Risk	Threat Sub Category	MaterialSource
3	8	Significant	The Application of Hauled Sewage to Land\r\n	Pathogen
3	8	Significant	Sewage System Or Sewage Works - Combined Sewer discharge from a stormwater outlet to surface water	Chemical
3	8	Significant	Sewage System Or Sewage Works - Combined Sewer discharge from a stormwater outlet to surface water	Pathogen
3	8	Significant	Sewage System or Sewage Works - Stormwater Management Facility	Chemical
3	8	Significant	Sewage System Or Sewage Works - Industrial Effluent Discharges	Chemical
3	8	Significant	Sewage System Or Sewage Works - Industrial Effluent Discharges	Pathogen
3	8	Significant	Sewage System Or Sewage Works - Sewage treatment plant bypass discharge to surface water	Chemical
3	8	Significant	Sewage System Or Sewage Works - Sewage treatment plant bypass discharge to surface water	Pathogen
3	8	Significant	Sewage System Or Sewage Works - Sewage Treatment Plant Effluent Discharges (Includes Lagoons)	Chemical
3	8	Significant	Sewage System Or Sewage Works - Sewage Treatment Plant Effluent Discharges (Includes Lagoons)	Pathogen
3	8	Significant	Application Of Agricultural Source Material (ASM) To Land	Pathogen
3	8	Significant	Storage Of Agricultural Source Material (ASM)	Pathogen
3	8	Significant	Application of Non-Agricultural Source Material (NASM) or Biosolids to Land	Pathogen
3	8	Significant	Storage of Non-Agricultural Source Material (NASM)	Pathogen
3	8	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Grazing and pasturing)	Pathogen
3	8	Significant	Management Or Handling Of Agricultural Source Material - Agricultural Source Material (ASM) Generation (Yards or confinement)	Pathogen

Data Source: MECP Source Protection Information Atlas



## **Appendix G**

### **Cultural Heritage Documentation**



**Criteria for Evaluating Potential  
for Built Heritage Resources and  
Cultural Heritage Landscapes**  
**A Checklist for the Non-Specialist**

The **purpose of the checklist** is to determine:

- if a property(ies) or project area:
  - is a recognized heritage property
  - may be of cultural heritage value
- it includes all areas that may be impacted by project activities, including – but not limited to:
  - the main project area
  - temporary storage
  - staging and working areas
  - temporary roads and detours

**Processes covered** under this checklist, such as:

- *Planning Act*
- *Environmental Assessment Act*
- *Aggregates Resources Act*
- *Ontario Heritage Act* – Standards and Guidelines for Conservation of Provincial Heritage Properties

**Cultural Heritage Evaluation Report (CHER)**

If you are not sure how to answer one or more of the questions on the checklist, you may want to hire a qualified person(s) (see page 5 for definitions) to undertake a cultural heritage evaluation report (CHER).

The CHER will help you:

- identify, evaluate and protect cultural heritage resources on your property or project area
- reduce potential delays and risks to a project

**Other checklists**

Please use a separate checklist for your project, if:

- you are seeking a Renewable Energy Approval under Ontario Regulation 359/09 – [separate checklist](#)
- your Parent Class EA document has an approved screening criteria (as referenced in Question 1)

Please refer to the Instructions pages for more detailed information and when completing this form.



Project or Property Name

Victoria Crescent Trunk Storm Sewer Evaluation

Project or Property Location (upper and lower or single tier municipality)

Victoria Crescent, Village of Elora, Township of Centre Wellington

Proponent Name

Sarah Ash, B.Eng., M.A.Sc., Engineering Technologist - Water/Wastewater, Township of Centre Wellington

Proponent Contact Information

519-846-9691 x236, SAsh@centrewellington.ca

### Screening Questions

	Yes	No
1. Is there a pre-approved screening checklist, methodology or process in place?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, please follow the pre-approved screening checklist, methodology or process.

If No, continue to Question 2.

### Part A: Screening for known (or recognized) Cultural Heritage Value

	Yes	No
2. Has the property (or project area) been evaluated before and found <b>not</b> to be of cultural heritage value?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, do **not** complete the rest of the checklist.

The proponent, property owner and/or approval authority will:

- summarize the previous evaluation and
- add this checklist to the project file, with the appropriate documents that demonstrate a cultural heritage evaluation was undertaken

The summary and appropriate documentation may be:

- submitted as part of a report requirement
- maintained by the property owner, proponent or approval authority

If No, continue to Question 3.

	Yes	No
3. Is the property (or project area):		
a. identified, designated or otherwise protected under the <i>Ontario Heritage Act</i> as being of cultural heritage value?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. a National Historic Site (or part of)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. designated under the <i>Heritage Railway Stations Protection Act</i> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. designated under the <i>Heritage Lighthouse Protection Act</i> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office (FHBRO)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f. located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes to any of the above questions, you need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report, if a Statement of Cultural Heritage Value has not previously been prepared or the statement needs to be updated

If a Statement of Cultural Heritage Value has been prepared previously and if alterations or development are proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

If No, continue to Question 4.



## Part B: Screening for Potential Cultural Heritage Value

	Yes	No
4. Does the property (or project area) contain a parcel of land that:		
a. is the subject of a municipal, provincial or federal commemorative or interpretive plaque?	<input type="checkbox"/>	<input type="checkbox"/>
b. has or is adjacent to a known burial site and/or cemetery?	<input type="checkbox"/>	<input type="checkbox"/>
c. is in a Canadian Heritage River watershed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. contains buildings or structures that are 40 or more years old?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## Part C: Other Considerations

	Yes	No
5. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area):		
a. is considered a landmark in the local community or contains any structures or sites that are important in defining the character of the area?	<input type="checkbox"/>	<input type="checkbox"/>
b. has a special association with a community, person or historical event?	<input type="checkbox"/>	<input type="checkbox"/>
c. contains or is part of a cultural heritage landscape?	<input type="checkbox"/>	<input type="checkbox"/>

**If Yes** to one or more of the above questions (Part B and C), there is potential for cultural heritage resources on the property or within the project area.

You need to hire a qualified person(s) to undertake:

- a Cultural Heritage Evaluation Report (CHER)

If the property is determined to be of cultural heritage value and alterations or development is proposed, you need to hire a qualified person(s) to undertake:

- a Heritage Impact Assessment (HIA) – the report will assess and avoid, eliminate or mitigate impacts

**If No** to all of the above questions, there is low potential for built heritage or cultural heritage landscape on the property.

The proponent, property owner and/or approval authority will:

- summarize the conclusion
- add this checklist with the appropriate documentation to the project file

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g. under the *Environmental Assessment Act*, *Planning Act* processes
- maintained by the property owner, proponent or approval authority



## Instructions

Please have the following available, when requesting information related to the screening questions below:

- a clear map showing the location and boundary of the property or project area
  - large scale and small scale showing nearby township names for context purposes
- the municipal addresses of all properties within the project area
- the lot(s), concession(s), and parcel number(s) of all properties within a project area

For more information, see the Ministry of Tourism, Culture and Sport's [Ontario Heritage Toolkit](#) or [Standards and Guidelines for Conservation of Provincial Heritage Properties](#).

In this context, the following definitions apply:

- **qualified person(s)** means individuals – professional engineers, architects, archaeologists, etc. – having relevant, recent experience in the conservation of cultural heritage resources.
- **proponent** means a person, agency, group or organization that carries out or proposes to carry out an undertaking or is the owner or person having charge, management or control of an undertaking.

### 1. Is there a pre-approved screening checklist, methodology or process in place?

An existing checklist, methodology or process may already be in place for identifying potential cultural heritage resources, including:

- one endorsed by a municipality
- an environmental assessment process e.g. screening checklist for municipal bridges
- one that is approved by the Ministry of Tourism, Culture and Sport (MTCS) under the Ontario government's [Standards & Guidelines for Conservation of Provincial Heritage Properties](#) [s.B.2.]

## Part A: Screening for known (or recognized) Cultural Heritage Value

### 2. Has the property (or project area) been evaluated before and found not to be of cultural heritage value?

Respond 'yes' to this question, if all of the following are true:

A property can be considered not to be of cultural heritage value if:

- a Cultural Heritage Evaluation Report (CHER) - or equivalent - has been prepared for the property with the advice of a qualified person and it has been determined not to be of cultural heritage value and/or
- the municipal heritage committee has evaluated the property for its cultural heritage value or interest and determined that the property is not of cultural heritage value or interest

A property may need to be re-evaluated, if:

- there is evidence that its heritage attributes may have changed
- new information is available
- the existing Statement of Cultural Heritage Value does not provide the information necessary to manage the property
- the evaluation took place after 2005 and did not use the criteria in Regulations 9/06 and 10/06

**Note:** Ontario government ministries and public bodies [prescribed under Regulation 157/10] may continue to use their existing evaluation processes, until the evaluation process required under section B.2 of the Standards & Guidelines for Conservation of Provincial Heritage Properties has been developed and approved by MTCS.

To determine if your property or project area has been evaluated, contact:

- the approval authority
- the proponent
- the Ministry of Tourism, Culture and Sport

### 3a. Is the property (or project area) identified, designated or otherwise protected under the *Ontario Heritage Act* as being of cultural heritage value e.g.:

- i. designated under the *Ontario Heritage Act*
  - individual designation (Part IV)
  - part of a heritage conservation district (Part V)



## Individual Designation – Part IV

A property that is designated:

- by a municipal by-law as being of cultural heritage value or interest [s.29 of the *Ontario Heritage Act*]
- by order of the Minister of Tourism, Culture and Sport as being of cultural heritage value or interest of provincial significance [s.34.5]. **Note:** To date, no properties have been designated by the Minister.

## Heritage Conservation District – Part V

A property or project area that is located within an area designated by a municipal by-law as a heritage conservation district [s. 41 of the *Ontario Heritage Act*].

For more information on Parts IV and V, contact:

- municipal clerk
- [Ontario Heritage Trust](#)
- local land registry office (for a title search)

---

ii. subject of an agreement, covenant or easement entered into under Parts II or IV of the *Ontario Heritage Act*

An agreement, covenant or easement is usually between the owner of a property and a conservation body or level of government. It is usually registered on title.

The primary purpose of the agreement is to:

- preserve, conserve, and maintain a cultural heritage resource
- prevent its destruction, demolition or loss

For more information, contact:

- [Ontario Heritage Trust](#) - for an agreement, covenant or easement [clause 10 (1) (c) of the *Ontario Heritage Act*]
- municipal clerk – for a property that is the subject of an easement or a covenant [s.37 of the *Ontario Heritage Act*]
- local land registry office (for a title search)

---

iii. listed on a register of heritage properties maintained by the municipality

Municipal registers are the official lists - or record - of cultural heritage properties identified as being important to the community.

Registers include:

- all properties that are designated under the *Ontario Heritage Act* (Part IV or V)
- properties that have not been formally designated, but have been identified as having cultural heritage value or interest to the community

For more information, contact:

- municipal clerk
- municipal heritage planning staff
- municipal heritage committee

---

iv. subject to a notice of:

- intention to designate (under Part IV of the *Ontario Heritage Act*)
- a Heritage Conservation District study area bylaw (under Part V of the *Ontario Heritage Act*)

A property that is subject to a **notice of intention to designate** as a property of cultural heritage value or interest and the notice is in accordance with:

- section 29 of the *Ontario Heritage Act*
- section 34.6 of the *Ontario Heritage Act*. **Note:** To date, the only applicable property is Meldrum Bay Inn, Manitoulin Island. [s.34.6]

An area designated by a municipal by-law made under section 40.1 of the *Ontario Heritage Act* as a **heritage conservation district study area**.

For more information, contact:

- municipal clerk – for a property that is the subject of notice of intention [s. 29 and s. 40.1]
- [Ontario Heritage Trust](#)



v. included in the Ministry of Tourism, Culture and Sport's list of provincial heritage properties

Provincial heritage properties are properties the Government of Ontario owns or controls that have cultural heritage value or interest.

The Ministry of Tourism, Culture and Sport (MTCS) maintains a list of all provincial heritage properties based on information provided by ministries and prescribed public bodies. As they are identified, MTCS adds properties to the list of provincial heritage properties.

For more information, contact the MTCS Registrar at [registrar@ontario.ca](mailto:registrar@ontario.ca).

### **3b. Is the property (or project area) a National Historic Site (or part of)?**

National Historic Sites are properties or districts of national historic significance that are designated by the Federal Minister of the Environment, under the *Canada National Parks Act*, based on the advice of the Historic Sites and Monuments Board of Canada.

For more information, see the [National Historic Sites website](#).

### **3c. Is the property (or project area) designated under the *Heritage Railway Stations Protection Act*?**

The *Heritage Railway Stations Protection Act* protects heritage railway stations that are owned by a railway company under federal jurisdiction. Designated railway stations that pass from federal ownership may continue to have cultural heritage value.

For more information, see the [Directory of Designated Heritage Railway Stations](#).

### **3d. Is the property (or project area) designated under the *Heritage Lighthouse Protection Act*?**

The *Heritage Lighthouse Protection Act* helps preserve historically significant Canadian lighthouses. The Act sets up a public nomination process and includes heritage building conservation standards for lighthouses which are officially designated.

For more information, see the [Heritage Lighthouses of Canada website](#).

### **3e. Is the property (or project area) identified as a Federal Heritage Building by the Federal Heritage Buildings Review Office?**

The role of the Federal Heritage Buildings Review Office (FHBRO) is to help the federal government protect the heritage buildings it owns. The policy applies to all federal government departments that administer real property, but not to federal Crown Corporations.

For more information, contact the [Federal Heritage Buildings Review Office](#).

See a [directory of all federal heritage designations](#).

### **3f. Is the property (or project area) located within a United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Site?**

A UNESCO World Heritage Site is a place listed by UNESCO as having outstanding universal value to humanity under the Convention Concerning the Protection of the World Cultural and Natural Heritage. In order to retain the status of a World Heritage Site, each site must maintain its character defining features.

Currently, the Rideau Canal is the only World Heritage Site in Ontario.

For more information, see Parks Canada – [World Heritage Site website](#).

## **Part B: Screening for potential Cultural Heritage Value**

### **4a. Does the property (or project area) contain a parcel of land that has a municipal, provincial or federal commemorative or interpretive plaque?**

Heritage resources are often recognized with formal plaques or markers.

Plaques are prepared by:

- municipalities
- provincial ministries or agencies
- federal ministries or agencies
- local non-government or non-profit organizations



For more information, contact:

- [municipal heritage committees](#) or local heritage organizations – for information on the location of plaques in their community
- Ontario Historical Society's [Heritage directory](#) – for a list of historical societies and heritage organizations
- Ontario Heritage Trust – for a [list of plaques](#) commemorating Ontario's history
- Historic Sites and Monuments Board of Canada – for a [list of plaques](#) commemorating Canada's history

**4b. Does the property (or project area) contain a parcel of land that has or is adjacent to a known burial site and/or cemetery?**

For more information on known cemeteries and/or burial sites, see:

- Cemeteries Regulations, Ontario Ministry of Consumer Services – for a [database of registered cemeteries](#)
- Ontario Genealogical Society (OGS) – to [locate records of Ontario cemeteries](#), both currently and no longer in existence; cairns, family plots and burial registers
- Canadian County Atlas Digital Project – to [locate early cemeteries](#)

In this context, adjacent means contiguous or as otherwise defined in a municipal official plan.

**4c. Does the property (or project area) contain a parcel of land that is in a Canadian Heritage River watershed?**

The Canadian Heritage River System is a national river conservation program that promotes, protects and enhances the best examples of Canada's river heritage.

Canadian Heritage Rivers must have, and maintain, outstanding natural, cultural and/or recreational values, and a high level of public support.

For more information, contact the [Canadian Heritage River System](#).

If you have questions regarding the boundaries of a watershed, please contact:

- your conservation authority
- municipal staff

**4d. Does the property (or project area) contain a parcel of land that contains buildings or structures that are 40 or more years old?**

A 40 year 'rule of thumb' is typically used to indicate the potential of a site to be of cultural heritage value. The approximate age of buildings and/or structures may be estimated based on:

- history of the development of the area
- fire insurance maps
- architectural style
- building methods

Property owners may have information on the age of any buildings or structures on their property. The municipality, local land registry office or library may also have background information on the property.

**Note:** 40+ year old buildings or structure do not necessarily hold cultural heritage value or interest; their age simply indicates a higher potential.

A building or structure can include:

- residential structure
- farm building or outbuilding
- industrial, commercial, or institutional building
- remnant or ruin
- engineering work such as a bridge, canal, dams, etc.

For more information on researching the age of buildings or properties, see the Ontario Heritage Tool Kit Guide [Heritage Property Evaluation](#).



## Part C: Other Considerations

### 5a. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) is considered a landmark in the local community or contains any structures or sites that are important to defining the character of the area?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has potential landmarks or defining structures and sites, for instance:

- buildings or landscape features accessible to the public or readily noticeable and widely known
- complexes of buildings
- monuments
- ruins

### 5b. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) has a special association with a community, person or historical event?

Local or Aboriginal knowledge may reveal that the project location is situated on a parcel of land that has a special association with a community, person or event of historic interest, for instance:

- Aboriginal sacred site
- traditional-use area
- battlefield
- birthplace of an individual of importance to the community

### 5c. Is there local or Aboriginal knowledge or accessible documentation suggesting that the property (or project area) contains or is part of a cultural heritage landscape?

Landscapes (which may include a combination of archaeological resources, built heritage resources and landscape elements) may be of cultural heritage value or interest to a community.

For example, an Aboriginal trail, historic road or rail corridor may have been established as a key transportation or trade route and may have been important to the early settlement of an area. Parks, designed gardens or unique landforms such as waterfalls, rock faces, caverns, or mounds are areas that may have connections to a particular event, group or belief.

For more information on Questions 5.a., 5.b. and 5.c., contact:

- Elders in Aboriginal Communities or community researchers who may have information on potential cultural heritage resources. Please note that Aboriginal traditional knowledge may be considered sensitive.
- [municipal heritage committees](#) or local heritage organizations
- Ontario Historical Society's "[Heritage Directory](#)" - for a list of historical societies and heritage organizations in the province

An internet search may find helpful resources, including:

- historical maps
- historical walking tours
- municipal heritage management plans
- cultural heritage landscape studies
- municipal cultural plans

Information specific to trails may be obtained through [Ontario Trails](#).



## Lindsay Scott

---

**From:** Lindsay Scott  
**Sent:** Thursday, August 3, 2017 3:09 PM  
**To:** 'umcarubm@pathcom.com'  
**Cc:** Paul Ziegler  
**Subject:** M6186A - Heritage Impact Assessment for Municipal Class EA Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Richard,

I am following up with a voicemail I left for you yesterday. I would like to discuss a Schedule B Municipal Class Environmental Assessment we are working on to identify the preferred alternative to address the severe deterioration of storm water infrastructure, specifically the trunk sewer located between Victoria Crescent and outlet to Irvine Creek, in Elora. The age of the trunk sewer is approximately 80+ years.

We submitted a Notice of Commencement to the Ministry of Tourism, Culture and Sport, who responded with the recommendation to complete the "Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes" checklist to identify whether potential or known heritage resources exist within the project area. I contacted the Planning/Heritage department at the Township of Centre Wellington to work through the checklist, which identified that the project area is located within a Heritage Conservation District and that the location of the existing trunk sewer is on private properties that are listed and designated on the Heritage Register. I am not sure whether a Statement of Cultural Heritage Value has been previously prepared.

I would like to hear your opinion on whether you believe that the existing trunk sewer would be considered to have cultural heritage value and what impacts this may have on our project. Also, what sort of considerations should we make for the proposed work within a Heritage Conservation District? I am assuming that we will require either a Cultural Heritage Evaluation Report or a Heritage Impact Assessment to be completed.

I look forward to speaking with you in regards to this project. Feel free to contact me by email or phone.

Thanks,

Lindsay Scott, P.Eng.



Triton Engineering Services Limited  
The Old Post – 39 Elora Street South, Unit 7, 8 & 9, P.O. Box 159, Harriston, ON N0G 1Z0  
Tel - (519) 292-1611 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Lindsay Scott  
**Sent:** Monday, August 14, 2017 3:45 PM  
**To:** Paul Ziegler  
**Subject:** M6186A - Heritage Study Info

Paul,

Just to keep you in the loop. I was finally able to touch base with Richard Unterman regarding our questions surrounding the heritage value of the existing storm sewer. He said that infrastructure does not have heritage value and if the work was being conducted within the right of way, then there would also be no heritage value concerns. He said from a heritage perspective, the best option would be to remove and replace in the same location; however, I explained the concern about the trees, so he said that would be considered a mitigation measure in the Heritage Impact Assessment, if one was to be prepared.

The MTCS checklist to identify the "Potential for Built Heritage Resources and Cultural Heritage Landscapes" triggered the need for a Cultural Heritage Evaluation Report (CHER) to be completed, but similar to the Stage 1 Archaeological Assessment that was completed, we already know that the next step (a Heritage Impact Assessment) would be required for each of alternatives due to the private properties being on the CW Heritage Register and the area being a Heritage District.

Richard recommended that we obtain a copy of the statements from the CW Heritage Planning Dept. for the private properties and the heritage district to determine the attributes of these areas and to guide us on how to manage these resources within our alternative solutions. This would tell us if the trees on the private property had heritage value, how they describe the district, and would define the context to show what sort of disruption the alternative solutions would have on the community. Richard said that a Heritage Impact assessment could be completed for the alternatives being considered but that would be most beneficial to do when we have a preferred alternative because then we would have a design for them to follow (which is the same scenario as where we sit with the archaeological study considerations).

I have left a message with the CW Heritage Planner (Mariana Iglesias) requesting the heritage statements.

Thanks,

Lindsay Scott, P.Eng.



Triton Engineering Services Limited  
The Old Post – 39 Elora Street South, Unit 7, 8 & 9, P.O. Box 159, Harriston, ON N0G 1Z0  
Tel - (519) 292-1611 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Mariana Iglesias <MIglesias@centrewellington.ca>  
**Sent:** August 16, 2017 11:16 AM  
**To:** Lindsay Scott  
**Subject:** Victoria Crescent  
**Attachments:** 01-075.pdf

Hi Lindsay,

Here is the link to the Register Search on our website which has information on the properties: [www.centrewellington.ca/registersearch](http://www.centrewellington.ca/registersearch). I have also attached the designation by-law for 190 Victoria Crescent.

Here is the link to the Victoria Crescent Heritage Conservation District Study that was prepared by the local residents: <http://mainething.com/hcd/hcd%20flip/index.html#/0>. Please note that the Study never went to Plan phase so is not an official HCD under the Ontario Heritage Act.

Please let me know if you have any further questions.

Regards,  
Mariana Iglesias | Senior Planner MCIP RPP CAHP  
Heritage and Development

Township of Centre Wellington | 1 MacDonald Square, Elora, ON N0B 1S0  
519.846.9691 x289 [centrewellington.ca](http://centrewellington.ca)



**THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON**

**BY-LAW NO. 01-75**

**Being a By-law to designate 190 Victoria Crescent, former Village of Elora ,  
to be of historic or architectural value or interest**

**WHEREAS** on the advice of the Local Architectural Advisory Committee, Council has been advised to designate the property, including lands and buildings, attached hereto to be of historic or architectural value or interest pursuant to the provisions of the Ontario Heritage Act, R.S.O. 1990, c.O.18.

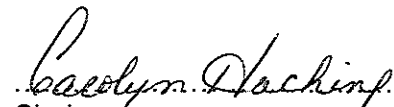
**AND WHEREAS** the provisions of Section 29, Subsections (1), (2) and (4) have been complied with and no objection has been received by the Municipality.

**NOW THEREFORE THE COUNCIL OF THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON HEREBY ENACTS AS FOLLOWS:**

1. The lands and premises described in Schedule "A" attached hereto are hereby designated to be lands and buildings of historic or architectural value or interest.
2. The reasons for the designation are as follows:  
A one and a half storey single detached dwelling with an L-shaped plan, and the main entrance in the recess and covered with a veranda. This building dates from 1878 and is built of hand-made red stretcher brick, with yellow brick quoins. There is a single bay window in the ground floor front façade, with a double hung semi-circular first floor window with a plain lug sill and yellow brick quoins and voussoirs. The roof has projecting eaves with plain fascia and soffits, without brackets. The important element of this designated property is the façade.
3. This By-law shall be registered against the title of the lands described in Schedule "A."
4. This By-law shall come into force and effect upon its final passing.


**READ A FIRST AND SECOND TIME** this 18<sup>th</sup> day of June 2001.

  
Head of Council

  
Clerk

**READ A THIRD TIME AND FINALLY PASSED** this 18<sup>th</sup> day of June 2001.

  
Head of Council

  
Clerk



**SCHEDULE "A"**

All and singular that certain parcel or tract of land and premises, situate, lying and being in the Township of Centre Wellington, in the County of Wellington, described as:

PLAN 181 S PT PARK LOT 19  
W/S VICTORIA





## Victoria Crescent 190



Built in 1878, possibly by John Gibb, a merchant.

This house is designated primarily for its architectural merit. The structure is built in an Eastlake Victorian style, with distinctive features such as a prominent front porch with decorative brackets and posts, as well as bay windows, arched windows, and cream-coloured voussoirs and quoins.

Year Built: 1878





Victoria Crescent 200



2 storey dwelling built in 1880 with Flemish brick, yellow quoins, low hip roof, side garage addition



## **Appendix H**

### **Archaeological Assessment Documentation**



**Criteria for Evaluating  
Archaeological Potential**  
**A Checklist for the Non-Specialist**

The **purpose of the checklist** is to determine:

- if a property(ies) or project area may contain archaeological resources i.e., have archaeological potential
- it includes all areas that may be impacted by project activities, including – but not limited to:
  - the main project area
  - temporary storage
  - staging and working areas
  - temporary roads and detours

**Processes covered** under this checklist, such as:

- *Planning Act*
- *Environmental Assessment Act*
- *Aggregates Resources Act*
- *Ontario Heritage Act* – Standards and Guidelines for Conservation of Provincial Heritage Properties

**Archaeological assessment**

If you are not sure how to answer one or more of the questions on the checklist, you may want to hire a licensed consultant archaeologist (see page 4 for definitions) to undertake an archaeological assessment.

The assessment will help you:

- identify, evaluate and protect archaeological resources on your property or project area
- reduce potential delays and risks to your project

**Note:** By law, archaeological assessments **must** be done by a licensed consultant archaeologist. Only a licensed archaeologist can assess – or alter – an archaeological site.

**What to do if you:**

- **find an archaeological resource**

If you find something you think may be of archaeological value during project work, you must – by law – stop all activities immediately and contact a licensed consultant archaeologist

The archaeologist will carry out the fieldwork in compliance with the *Ontario Heritage Act* [s.48(1)].

- **unearth a burial site**

If you find a burial site containing human remains, you must immediately notify the appropriate authorities (i.e., police, coroner's office, and/or Registrar of Cemeteries) and comply with the *Funeral, Burial and Cremation Services Act*.

**Other checklists**

Please use a separate checklist for your project, if:

- you are seeking a Renewable Energy Approval under Ontario Regulation 359/09 – [separate checklist](#)
- your Parent Class EA document has an approved screening criteria (as referenced in Question 1)

Please refer to the Instructions pages when completing this form.



Project or Property Name

Victoria Crescent Trunk Storm Sewer Evaluation

Project or Property Location (upper and lower or single tier municipality)

Victoria Crescent, Village of Elora, Township of Centre Wellington

Proponent Name

Sarah Ash, B.Eng., M.A.Sc., Engineering Technologist - Water/Wastewater, Township of Centre Wellington

Proponent Contact Information

519-846-9691 x236, SAsh@centrewellington.ca

### Screening Questions

	Yes	No
1. Is there a pre-approved screening checklist, methodology or process in place?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, please follow the pre-approved screening checklist, methodology or process.

If No, continue to Question 2.

	Yes	No
2. Has an archaeological assessment been prepared for the property (or project area) and been accepted by MTCS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If Yes, do **not** complete the rest of the checklist. You are expected to follow the recommendations in the archaeological assessment report(s).

The proponent, property owner and/or approval authority will:

- summarize the previous assessment
- add this checklist to the project file, with the appropriate documents that demonstrate an archaeological assessment was undertaken e.g., MTCS letter stating acceptance of archaeological assessment report

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g., environmental assessment document
- maintained by the property owner, proponent or approval authority

If No, continue to Question 3.

	Yes	No
3. Are there known archaeological sites on or within 300 metres of the property (or the project area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
4. Is there Aboriginal or local knowledge of archaeological sites on or within 300 metres of the property (or project area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
5. Is there Aboriginal knowledge or historically documented evidence of past Aboriginal use on or within 300 metres of the property (or project area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
6. Is there a known burial site or cemetery on the property or adjacent to the property (or project area)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Yes	No
7. Has the property (or project area) been recognized for its cultural heritage value?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

If Yes to any of the above questions (3 to 7), do **not** complete the checklist. Instead, you need to hire a licensed consultant archaeologist to undertake an archaeological assessment of your property or project area.

If No, continue to question 8.

	Yes	No
8. Has the entire property (or project area) been subjected to recent, extensive and intensive disturbance?	<input type="checkbox"/>	<input type="checkbox"/>

If Yes to the preceding question, do **not** complete the checklist. Instead, please keep and maintain a summary of documentation that provides evidence of the recent disturbance.

An archaeological assessment is not required.

If No, continue to question 9.



9. Are there present or past water sources within 300 metres of the property (or project area)?

Yes

No

☐☐

If **Yes**, an archaeological assessment is required.

**No**, continue to question 10.

10. Is there evidence of two or more of the following on the property (or project area)?

Yes

No

☐☐

- elevated topography
- pockets of well-drained sandy soil
- distinctive land formations
- resource extraction areas
- early historic settlement
- early historic transportation routes

If **Yes**, an archaeological assessment is required.

If **No**, there is low potential for archaeological resources at the property (or project area).

The proponent, property owner and/or approval authority will:

- summarize the conclusion
- add this checklist with the appropriate documentation to the project file

The summary and appropriate documentation may be:

- submitted as part of a report requirement e.g., under the *Environmental Assessment Act, Planning Act* processes
- maintained by the property owner, proponent or approval authority



## Instructions

Please have the following available, when requesting information related to the screening questions below:

- a clear map showing the location and boundary of the property or project area
  - large scale and small scale showing nearby township names for context purposes
- the municipal addresses of all properties within the project area
- the lot(s), concession(s), and parcel number(s) of all properties within a project area

In this context, the following definitions apply:

- **consultant archaeologist** means, as defined in Ontario regulation as an archaeologist who enters into an agreement with a client to carry out or supervise archaeological fieldwork on behalf of the client, produce reports for or on behalf of the client and provide technical advice to the client. In Ontario, these people also are required to hold a valid professional archaeological licence issued by the Ministry of Tourism, Culture and Sport.
- **proponent** means a person, agency, group or organization that carries out or proposes to carry out an undertaking or is the owner or person having charge, management or control of an undertaking.

### 1. Is there a pre-approved screening checklist, methodology or process in place?

An existing checklist, methodology or process may be already in place for identifying archaeological potential, including:

- one prepared and adopted by the municipality e.g., archaeological management plan
- an environmental assessment process e.g., screening checklist for municipal bridges
- one that is approved by the Ministry of Tourism, Culture and Sport under the Ontario government's [Standards & Guidelines for Conservation of Provincial Heritage Properties](#) [s. B.2.]

### 2. Has an archaeological assessment been prepared for the property (or project area) and been accepted by MTCS?

Respond 'yes' to this question, if all of the following are true:

- an archaeological assessment report has been prepared and is in compliance with MTCS requirements
  - a letter has been sent by MTCS to the licensed archaeologist confirming that MTCS has added the report to the Ontario Public Register of Archaeological Reports (Register)
- the report states that there are no concerns regarding impacts to archaeological sites

Otherwise, if an assessment has been completed and deemed compliant by the MTCS, and the ministry recommends further archaeological assessment work, this work will need to be completed.

For more information about archaeological assessments, contact:

- approval authority
- proponent
- consultant archaeologist
- Ministry of Tourism, Culture and Sport at [archaeology@ontario.ca](mailto:archaeology@ontario.ca)

### 3. Are there known archaeological sites on or within 300 metres of the property (or project area)?

MTCS maintains a database of archaeological sites reported to the ministry.

For more information, contact MTCS Archaeological Data Coordinator at [archaeology@ontario.ca](mailto:archaeology@ontario.ca).

### 4. Is there Aboriginal or local knowledge of archaeological sites on or within 300 metres of the property?

Check with:

- Aboriginal communities in your area
- local municipal staff

They may have information about archaeological sites that are not included in MTCS' database.

Other sources of local knowledge may include:

- property owner
- [local heritage organizations and historical societies](#)
- local museums
- [municipal heritage committee](#)
- published local histories



**5. Is there Aboriginal knowledge or historically documented evidence of past Aboriginal use on or within 300 metres of the property (or property area)?**

Check with:

- Aboriginal communities in your area
- local municipal staff

Other sources of local knowledge may include:

- property owner
- [local heritage organizations and historical societies](#)
- local museums
- [municipal heritage committee](#)
- published local histories

**6. Is there a known burial site or cemetery on the property or adjacent to the property (or project area)?**

For more information on known cemeteries and/or burial sites, see:

- Cemeteries Regulation Unit, Ontario Ministry of Consumer Services – for [database of registered cemeteries](#)
- Ontario Genealogical Society (OGS) – to [locate records of Ontario cemeteries](#), both currently and no longer in existence; cairns, family plots and burial registers
- Canadian County Atlas Digital Project – to [locate early cemeteries](#)

In this context, 'adjacent' means 'contiguous', or as otherwise defined in a municipal official plan.

**7. Has the property (or project area) been recognized for its cultural heritage value?**

There is a strong chance there may be archaeological resources on your property (or immediate area) if it has been listed, designated or otherwise identified as being of cultural heritage value by:

- your municipality
- Ontario government
- Canadian government

This includes a property that is:

- designated under *Ontario Heritage Act* (the OHA ), including:
  - individual designation (Part IV)
  - part of a heritage conservation district (Part V)
  - an archaeological site (Part VI)
- subject to:
  - an agreement, covenant or easement entered into under the OHA (Parts II or IV)
  - a notice of intention to designate (Part IV)
  - a heritage conservation district study area by-law (Part V) of the OHA
- listed on:
  - a municipal register or inventory of heritage properties
  - Ontario government's list of provincial heritage properties
  - Federal government's list of federal heritage buildings
- part of a:
  - National Historic Site
  - UNESCO World Heritage Site
- designated under:
  - *Heritage Railway Station Protection Act*
  - *Heritage Lighthouse Protection Act*
- subject of a municipal, provincial or federal commemorative or interpretive plaque.

To determine if your property or project area is covered by any of the above, see:

- Part A of the MTCS Criteria for Evaluating Potential for Built Heritage and Cultural Heritage Landscapes



## Part VI – Archaeological Sites

Includes five sites designated by the Minister under Regulation 875 of the Revised Regulation of Ontario, 1990 (Archaeological Sites) and 3 marine archaeological sites prescribed under Ontario Regulation 11/06.

For more information, check [Regulation 875](#) and [Ontario Regulation 11/06](#).

### J. Has the entire property (or project area) been subjected to recent extensive and intensive ground disturbance?

Recent: after-1960

Extensive: over all or most of the area

Intensive: thorough or complete disturbance

Examples of ground disturbance include:

- quarrying
- major landscaping – involving grading below topsoil
- building footprints and associated construction area
  - where the building has deep foundations or a basement
- infrastructure development such as:
  - sewer lines
  - gas lines
  - underground hydro lines
  - roads
  - any associated trenches, ditches, interchanges. **Note:** this applies only to the excavated part of the right-of-way; the remainder of the right-of-way or corridor may not have been impacted.

A ground disturbance does **not** include:

- agricultural cultivation
- gardening
- landscaping

### Site visits

You can typically get this information from a site visit. In that case, please document your visit in the process (e.g., report) with:

- photographs
- maps
- detailed descriptions

If a disturbance isn't clear from a site visit or other research, you need to hire a licensed consultant archaeologist to undertake an archaeological assessment.

### 9. Are there present or past water bodies within 300 metres of the property (or project area)?

Water bodies are associated with past human occupations and use of the land. About 80-90% of archaeological sites are found within 300 metres of water bodies.

#### Present

- Water bodies:
  - primary - lakes, rivers, streams, creeks
  - secondary - springs, marshes, swamps and intermittent streams and creeks
- accessible or inaccessible shoreline, for example:
  - high bluffs
  - swamps
  - marsh fields by the edge of a lake
  - sandbars stretching into marsh



Water bodies not included:

- man-made water bodies, for example:
  - temporary channels for surface drainage
  - rock chutes and spillways
  - temporarily ponded areas that are normally farmed
  - dugout ponds
- artificial bodies of water intended for storage, treatment or recirculation of:
  - runoff from farm animal yards
  - manure storage facilities
  - sites and outdoor confinement areas

## Past

Features indicating past water bodies:

- raised sand or gravel beach ridges – can indicate glacial lake shorelines
- clear dip in the land – can indicate an old river or stream
- shorelines of drained lakes or marshes
- cobble beaches

You can get information about water bodies through:

- a site visit
- aerial photographs
- 1:10,000 scale [Ontario Base Maps](#) - or [equally detailed and scaled maps](#).

## 10. Is there evidence of two or more of the following on the property (or project area)?

- elevated topography
- pockets of well-drained sandy soil
- distinctive land formations
- resource extraction areas
- early historic settlement
- early historic transportation routes

### • Elevated topography

Higher ground and elevated positions - surrounded by low or level topography - often indicate past settlement and land use.

Features such as eskers, drumlins, sizeable knolls, plateaus next to lowlands, or other such features are a strong indication of archaeological potential.

Find out if your property or project area has elevated topography, through:

- site inspection
- aerial photographs
- [topographical maps](#)

### • Pockets of well-drained sandy soil, especially within areas of heavy soil or rocky ground

Sandy, well-drained soil - in areas characterized by heavy soil or rocky ground - may indicate archaeological potential

Find out if your property or project area has sandy soil through:

- site inspection
- [soil survey reports](#)



- **Distinctive land formations**

Distinctive land formations include – but are not limited to:

- waterfalls
- rock outcrops
- rock faces
- caverns
- mounds, etc.

They were often important to past inhabitants as special or sacred places. The following sites may be present – or close to – these formations:

- burials
- structures
- offerings
- rock paintings or carvings

Find out if your property or project areas has a distinctive land formation through:

- a site visit
- aerial photographs
- 1:10,000 scale [Ontario Base Maps](#) - or [equally detailed and scaled maps](#).

- **Resource extraction areas**

The following resources were collected in these extraction areas:

- food or medicinal plants e.g., migratory routes, spawning areas, prairie
- scarce raw materials e.g., quartz, copper, ochre or outcrops of chert
- resources associated with early historic industry e.g., fur trade, logging, prospecting, mining

Aboriginal communities may hold traditional knowledge about their past use or resources in the area.

- **Early historic settlement**

Early Euro-Canadian settlement include – but are not limited to:

- early military or pioneer settlement e.g., pioneer homesteads, isolated cabins, farmstead complexes
- early wharf or dock complexes
- pioneers churches and early cemeteries

For more information, see below – under the early historic transportation routes.

- **Early historic transportation routes** - such as trails, passes, roads, railways, portage routes, canals.

For more information, see:

- historical maps and/or historical atlases
  - for information on early settlement patterns such as trails (including Aboriginal trails), monuments, structures, fences, mills, historic roads, rail corridors, canals, etc.
  - [Archives of Ontario](#) holds a large collection of historical maps and historical atlases
  - digital versions of historic atlases are available on the [Canadian County Atlas Digital Project](#)
- commemorative markers or plaques such as local, [provincial](#) or [federal](#) agencies
- [municipal heritage committee](#) or other [local heritage organizations](#)
  - for information on early historic settlements or landscape features (e.g., fences, mill races, etc.)
  - for information on commemorative markers or plaques



**STAGE 1 ARCHAEOLOGICAL ASSESSMENT  
VICTORIA CRESCENT STORM SEWER  
PART OF LOT 19, CONCESSION 11  
FORMER TOWNSHIP OF NICHOL, COUNTY OF WELLINGTON  
TOWN OF ELORA, TOWNSHIP OF CENTRE WELLINGTON, WELLINGTON COUNTY, ONTARIO**

**REVISED REPORT**

Prepared for:

**Triton Engineering Services Limited**  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6

Archaeological Licence #P057 (Pihl)  
Ministry of Tourism, Culture and Sport PIF# P057-0836-2016  
ASI File: 16EA-083

22 November, 2016



528 Bathurst Street Toronto, ONTARIO M5S 2P9  
T 416-966-1069 F 416-966-9723 ASIheritage.ca



**STAGE 1 ARCHAEOLOGICAL ASSESSMENT  
VICTORIA CRESCENT STORM SEWER  
PART OF LOT 19, CONCESSION 11  
FORMER TOWNSHIP OF NICHOL, COUNTY OF WELLINGTON  
TOWN OF ELORA, TOWNSHIP OF CENTRE WELLINGTON, WELLINGTON COUNTY, ONTARIO**

**EXECUTIVE SUMMARY**

ASI was contracted by the Township of Centre Wellington, in coordination with Triton Engineering Services Limited, to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Replacement Trunk Storm Sewer Victoria Crescent Municipal Class Environmental Assessment (EA) in the City of Elora. This project was initiated to address the deterioration of stormwater infrastructure. The study area is located on part of the properties at 190 and 200 Victoria Crescent, on part of Lot 19, Concession 11 in the Former Township of Nichol, Wellington County. The study area measures approximately 800 square metres from the existing storm sewer to the north, between five metres north of the sewer on the east property line and 15 metres north of the sewer on the west property line.

The background research determined that four previously registered archaeological sites are located within a one kilometre radius of the study area. Further, both houses on the subject properties appear on the Township of Centre Wellington Municipal Heritage Register. A review of the historical and archaeological contexts of the study area also suggested that it has potential for the identification of Indigenous and Euro-Canadian archaeological resources, depending on the degree to which soils have been impacted by disturbance.

A property inspection determined that the entire study area retains archaeological potential north of the existing storm sewer pipe. The extent of disturbance from the existing infrastructure along the south end of the study area should be confirmed by a Stage 2 test pit survey.

In light of these results, the following recommendations are made:

1. The entire study area is considered to retain archaeological potential. These lands require Stage 2 archaeological assessment by test-pit survey at five metre intervals, prior to any proposed impacts to the property;
2. Should the proposed work extend beyond the current study area then further Stage 1 archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.





## PROJECT PERSONNEL

<i>Senior Project Manager:</i>	Andrew Riddle, PhD (P347) <i>Senior Archaeologist, Manager Environmental Assessment Projects (West) Environmental Assessment Division</i>
<i>Project Coordinator:</i>	Sarah Jagelewski, Hon BA (R405) <i>Staff Archaeologist, Assistant Manager Environmental Assessment Division</i>
<i>Project Director (Licensee):</i>	Robert Pihl, MA, CAHP (P057) <i>Partner and Senior Archaeologist, Manager, Environmental Assessment Division</i>
<i>Field Director:</i>	Aleksandra Pradzynski, Hon BSc (R190) <i>Staff Archaeologist</i>
<i>Report Preparation:</i>	Eliza Brandy, MA (R1109) <i>Staff Archaeologist</i>
<i>Graphics:</i>	Jonas Fernandez, MSc (R281) <i>Geomatics Specialist</i>  Blake Williams, MLitt (P383) <i>Geomatics Specialist, Staff Archaeologist</i>
<i>Report Reviewers:</i>	Andrew Riddle





## TABLE OF CONTENTS

1.0	PROJECT CONTEXT.....	1
1.1	Development Context .....	1
1.2	Historical Context.....	2
1.2.1	<i>Indigenous Land Use and Settlement.....</i>	2
1.2.2	<i>Historic Euro-Canadian Land Use: Township Survey and Settlement.....</i>	5
1.2.3	<i>Historic Map Review .....</i>	7
1.2.4	<i>Summary of Historical Context.....</i>	7
1.3	Archaeological Context.....	7
1.3.1	<i>Current Land Use and Field Conditions.....</i>	8
1.3.2	<i>Geography.....</i>	8
1.3.3	<i>Previous Archaeological Research.....</i>	9
1.3.4	<i>Summary of Archaeological Context.....</i>	10
2.0	FIELD METHODS: PROPERTY INSPECTION .....	10
3.0	ANALYSIS AND CONCLUSIONS .....	11
3.1	Analysis of Archaeological Potential .....	11
3.2	Analysis of Property Inspection Results .....	11
3.3	Conclusions .....	12
4.0	RECOMMENDATIONS .....	12
5.0	ADVICE ON COMPLIANCE WITH LEGISLATION .....	13
6.0	REFERENCES CITED .....	14
7.0	MAPS .....	19
8.0	IMAGES .....	24

## LIST OF TABLES

Table 1: List of previously registered sites within one kilometre of the study area .....	10
---	----

## LIST OF FIGURES

Figure 1: Victoria Crescent Storm Sewer Study Area Location.....	20
Figure 2: Victoria Crescent Storm Sewer Study Area overlaid on 1861 Map of the County of Wellington, Canada West.....	21
Figure 3: Victoria Crescent Storm Sewer Study Area overlaid on 1877 Map of the County of Wellington .....	21
Figure 4: Victoria Crescent Storm Sewer Study Area Surficial Geology .....	22
Figure 5: Victoria Crescent Storm Sewer Study Area Soil Drainage .....	22
Figure 6: Victoria Crescent Storm Sewer Study Area Property Inspection Results .....	23





## LIST OF PLATES

Plate 1: North view of Victoria Crescent environs outside eastern limits of the study area .....	24
Plate 2: West view of study area and 200 Victoria Crescent; Area possesses archaeological potential and requires Stage 2 test pit survey.....	24
Plate 3: South view of Victoria Crescent environs outside eastern limits of the study area .....	24
Plate 4: West view of 190 Victoria Crescent outside southern limits of the study area; Study area west of the driveway, possesses archaeological potential and requires Stage 2 test pit survey. ....	24
Plate 5: East view of study area; Area possesses archaeological potential and requires Stage 2 test pit survey. ....	25
Plate 6: West view of Irvine Gorge and existing gabion wall.....	25
Plate 7: Southeast view of study area; area possesses archaeological potential and requires Stage 2 test pit survey. ....	25
Plate 8: East view of study area; Area possesses archaeological potential and requires Stage 2 test pit survey. ....	25
Plate 9: South view of Promenade Trail, western limits of the study area; Area east of the trail possesses archaeological potential and requires Stage 2 test pit survey. ....	25
Plate 10: North view of Promenade Trail, western limits of the study area; Area east of the trail possesses archaeological potential and requires Stage 2 test pit survey. ....	25





## 1.0 PROJECT CONTEXT

ASI was contracted by the Township of Centre Wellington, in coordination with Triton Engineering Services Limited, to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Replacement Trunk Storm Sewer Victoria Crescent Municipal Class Environmental Assessment (EA) in the City of Elora. This project was initiated to address the deterioration of stormwater infrastructure. The study area is located on part of the properties at 190 and 200 Victoria Crescent, on part of Lot 19, Concession 11 in the Former Township of Nichol, Wellington County (Figure 1). The study area measures approximately 800 square metres from the existing storm sewer to the north, between five metres north of the sewer on the east property line and 15 metres north of the sewer on the west property line (Figure 6).

This assessment was conducted under the project direction of Robert Pihl (PIF P057-0836-2016) and the senior project management of Andrew Riddle (P347), both of ASI.

In the *Standards and Guidelines for Consultant Archaeologists* (S & G), Section 1, the objectives of a Stage 1 archaeological assessment are discussed as follows:

- To provide information about the history, current land conditions, geography, and previous archaeological fieldwork of the study area;
- To evaluate in detail the archaeological potential of the study area that can be used, if necessary, to support recommendations for Stage 2 archaeological assessment for all or parts of the study area; and,
- To recommend appropriate strategies for Stage 2 archaeological assessment, if necessary.

This report describes the Stage 1 archaeological assessment that was conducted for this project and is organized as follows: Section 1.0 summarizes the background study that was conducted to provide the historical and archaeological contexts for the project study area; Section 2.0 addresses the field methods used for the property inspection that was undertaken to document its general environment, current land use history and conditions of the study area; Section 3.0 analyses the characteristics of the project study area and evaluates its archaeological potential; Section 4.0 provides recommendations for the next assessment steps; and the remaining sections contain other report information that is required by the S & G, e.g., advice on compliance with legislation, works cited, mapping and photo-documentation.

### 1.1 Development Context

All work has been undertaken as required by the *Environmental Assessment Act*, RSO (1990) and regulations made under the Act, and are therefore subject to all associated legislation. This project is being conducted in accordance with the Municipal Class EA process.

All activities carried out during this assessment were completed in accordance with the *Ontario Heritage Act* (2005), the 2011 *Standards and Guidelines for Consultant Archaeologists* (S & G), administered by the Ministry of Tourism, Culture and Sport (MTCS).

Authorization to carry out the activities necessary for the completion of the Stage 1 archaeological assessment was granted to ASI by Triton Engineering Services Limited on April 20, 2016.





## 1.2 Historical Context

The purpose of this section, according to the S & G, Section 7.5.7, Standard 1, is to describe the past and present land use and the settlement history and any other relevant historical information pertaining to the study area. A summary is first presented of the current understanding of the Indigenous land use of the study area. This is then followed by a review of the historical Euro-Canadian settlement history.

### 1.2.1 Indigenous Land Use and Settlement

Southern Ontario has been occupied by human populations since the retreat of the Laurentide glacier approximately 13,000 years before present (BP) (Ferris 2013: 13). Populations at this time were highly mobile, inhabiting a boreal-parkland similar to the modern sub-arctic. By approximately 10,000 BP, the climate had progressively warmed (Edwards and Fritz 1988) and populations now occupied less extensive territories (Ellis and Deller 1990:62-63).

Between approximately 10,000-5,500 BP, the Great Lakes basins experienced low-water levels, and many sites which would have been located on those former shorelines were then submerged. This period produces the earliest evidence of heavy wood working tools and is indicative of greater investment of labour in felling trees for fuel, to build shelter, or to produce tools, and is ultimately indicative of prolonged seasonal residency at sites. By approximately 8,000 BP, evidence exists for polished stone implements and worked native copper. The source for the latter from the north shore of Lake Superior is evidence of extensive exchange networks. Early evidence exists at this time for the creation of communal cemeteries and ceremonial funerary customs. This evidence is significant for the establishment of band territories. These communal places indicate shared meaning across the community and are reflective of a people's cosmology (Brown 1995: 13; Holloway and Hubbard 2001: 74; Parker Pearson 1999: 141). Between approximately 4,500-3,000 BP, there is evidence for construction of fishing weirs. These structures indicate not only the group sharing of resources, but also the organization of communal labour (Ellis *et al.* 1990; Ellis *et al.* 2009).

Settlement and subsistence systems between 3,000 BP and 2500 BP are not entirely understood. Populations continued a semi-permanent existence and exploited seasonally-available resources. The harvesting of spawning fish continued to be an important part of their subsistence practices. There continues to be evidence for extensive and complex exchange networks (Spence *et al.* 1990:136, 138). By approximately 2,000 BP, evidence exists for macro-band camps, focusing on the seasonal exploitation of resources such as spawning fish and wild rice (Spence *et al.* 1990:155, 164). It is also during this period that maize was first introduced into southern Ontario, though it would have only supplemented people's diet (Birch and Williamson 2013:13-15). Bands likely retreated to interior camps during the winter.

From approximately 1,000 BP until approximately 300 BP, evidence indicates that lifeways were similar to the historically-described Indigenous groups. Populations in southern Ontario were Iroquoian-speaking, though full expression of Iroquoian culture is not recognized archaeologically until the fourteenth century AD. During the Early Iroquoian phase (AD 1000-1300), the communal site is replaced by the village focused on horticulture. Seasonal disintegration of the community for the exploitation of a wider territory and more varied resource base was still practiced (Williamson 1990:317). By the second quarter of the first millennium BP, during the Middle Iroquoian phase (AD 1300-1450), this episodic community disintegration was no longer practiced and populations now communally occupied sites throughout the year (Dodd *et al.* 1990:343). In the Late Iroquoian phase (AD 1450-1649), this process continued with the coalescence of these small villages into larger communities (Birch and Williamson





2013). Through this process, the socio-political organization of the Indigenous Nations, as described historically by the French and English explorers who first visited southern Ontario, was developed.

Samuel de Champlain in 1615 reported that a group of Iroquoian-speaking people situated between the New York Iroquois and the Huron-Wendat were at peace and remained “la nation neutre”. In subsequent years, the French visited and traded among the Neutral, but the first documented visit was not until 1626, when the Recollet missionary Joseph de la Roche Daillon recorded his visit to the villages of the Attiwandaron, whose name in the Huron-Wendat language meant “those who speak a slightly different tongue” (the Neutral apparently referred to the Huron-Wendat by the same term). Like the Huron-Wendat, Petun, and New York Iroquois, the Neutral people were settled village agriculturalists. Several discrete settlement clusters have been identified in the lower Grand River, Fairchild-Big Creek, Upper Twenty Mile Creek, Spencer-Bronte Creek drainages, Milton, Grimsby, Eastern Niagara Escarpment and Onondaga Escarpment areas, which are attributed to Iroquoian populations. These settlement clusters are believed by some scholars to have been inhabited by populations of the Neutral Nation or pre- (or ancestral) Neutral Nation (Lennox and Fitzgerald 1990).

Between 1647 and 1651, the Neutral were decimated by epidemics and ultimately dispersed by the New York Iroquois, who subsequently settled along strategic trade routes on the north shore of Lake Ontario for a brief period during the mid seventeenth-century. Compared to settlements of the New York Iroquois, the “Iroquois du Nord” occupation of the landscape was less intensive. Only seven villages are identified by the early historic cartographers on the north shore, and they are documented as considerably smaller than those in New York State. The populations were agriculturalists, growing maize, pumpkins, and squash. These settlements also played the important alternate role of serving as stopovers and bases for New York Iroquois travelling to the north shore for the annual beaver hunt (Konrad 1974).

Beginning in the mid-late seventeenth century, the Mississaugas began to replace the Iroquois as the controlling Indigenous group in the north shore since the Iroquois confederacy had overstretched their territory between the 1650s and 1670s (Williamson 2008). The Iroquois could not hold the region and agreed to form an alliance with the Mississaugas and share hunting territories with them. The Mississaugas traded with both the British and the French in order to have wider access to European materials at better prices and acted as trade intermediaries between the British and tribes in the north.

Following the 1764 Niagara Peace Treaty and the follow-up treaties with Pontiac, the English colonial government considered the Mississaugas to be their allies since they had accepted the Covenant Chain. The English administrators followed the terms of the Royal Proclamation and insured that no settlements were made in the hunting grounds that had been reserved for their use (Johnston 1964; Lytwyn 2005).

Six Nations Iroquois leaders also pressured the English colonial government to respect their old treaties, especially those concerning access to hunting grounds north of Lake Ontario. In 1765, Daniel Claus, Deputy Superintendent General of Indian Affairs, wrote to Sir William Johnson and explained that he had been told that the Six Nations Iroquois’ old hunting grounds were to be treated in common, “and free to one Nation as to another, in the same manner as a large Dish of Meat would be to a Company of People who were invited to eat it, when every Guest has liberty to cut as they pleased” (Johnson 1921:917). In 1767, Chiefs from Oka and Caughnawaga met with the British Governor and also reminded him about the 1701 Peace Treaty and the promise to have shared hunting territories with the Mississaugas (Johnston 1964; Lytwyn 2005).

During the American Revolution, Mississauga warriors supported the English military. Rebel forces destroyed the villages of the Six Nations Iroquois in New York and many people were forced to move to





the Niagara area. When Six Nations Iroquois leaders learned that the English planned to make a peace treaty with the Americans and establish a boundary line that would give away their homelands they were angry. The English government offered to protect Six Nations Iroquois peoples and give them land within their boundaries. On August 8, 1783, Lord North instructed Governor Haldimand to set apart land for the Six Nations Iroquois and ensure that they carried on their hunting and fur trading with the British. On May 22, 1784, a tract of land along the Grand River was purchased by the British government from the Mississaugas who lived in the vicinity (Johnston 1964; Lytwyn 2005). The land set apart is called the Haldimand Tract.

Joseph Brant led New York Iroquois loyalists (1600 people) to the Haldimand tract in 1784 and in the fall of 1784, Sir Frederick Haldimand formally awarded the tract to the Mohawks “and others of the Six Nations [Iroquois].” They were authorized to “Settle upon the Banks of the River” and were allotted “for that Purpose six miles [10 km] deep from each Side of [it] beginning at Lake Erie, & extending in the Proportion to [its] Head.” The precise boundaries of the grant were unclear as there was no survey; for example, the northern boundary of the original deed from the Mississaugas to the Crown stated that the line extended “from the creek that falls from a small lake into...the bay known by the name of Waghquata [Burlington Bay]...until it strikes the river La Tranche [Thames].” The 1790 survey by Augustus Jones intentionally failed to include the headwaters of the Grand, an action made all the more difficult to address given the unclear description of the extent in the original deeds (Johnston 1964; Lytwyn 2005).

Brant regarded the territory as his own to manage on behalf of the Confederacy and interpreted the proclamation as tantamount to full national recognition of the Mohawks and fellow tribesmen. This interpretation was strongly denied by the British (Johnston 1964; Lytwyn 2005).

In fact, appointed as Lieutenant Governor of the new colony of Upper Canada in 1791, Simcoe refused to permit the Six Nations Iroquois to sell/lease any part of their reserve because they were arranged independently of the Crown. Brant, on the other hand, argued for the Six Nations Iroquois’ need for an immediate assured income from land sales as they could no longer hope to survive by hunting exclusively. Simcoe thought that if such practices were permitted, it could lead to other Europeans attempting to seize control by any means of the better part of the Six Nations Iroquois’ reserve and it was therefore unresolved as to whether Six Nations Iroquois people could dispose of their lands directly to whomever they chose (Johnston 1964; Lytwyn 2005).

In the first few years, Brant, who had been described, by some, as a Europeanized entrepreneur, took the initiative and invited white friends and acquaintances to the tract and provided them with rough land titles. Over the next 25 years (1784-1810), a considerable number of Europeans and Americans obtained similar leases authorizing them (in Brant’s opinion) to occupy and improve lots overlooking the river (Johnston 1964; Lytwyn 2005).

The subsequent Peter Russel administration (1797-1798), however, recognized the leases and the sales that Brant arranged with white settlers along the Grand River Valley. Trustees were appointed to act on the behalf of the Six Nations Iroquois with the authority to receive payment of purchases. On the other hand, some Six Nations Iroquois thought that the land sale practices violated the ancient principle that land was not a “commodity which could be conveyed.” Two Mohawk sachems even tried to take up arms to depose Brant because they did not agree with his ways. Their efforts were for naught and they returned to the Bay of Quinte where other Six Nation Iroquois peoples, led by Sachem John Deseronto, had settled after the American Revolution (Johnston 1964; Lytwyn 2005).





A formal investigation of the matter was launched in 1812 although leases were not set aside. Due to problems of white encroachment including squatters without titles, settlers who bought land from individuals or through other transactions with Six Nations Iroquois, many of the leases were confirmed by the Crown in 1834-5. Unauthorized sales and agreements remained rampant (Johnston 1964; Lytwyn 2005).

In 1841, Samuel P. Jarvis (Indian Superintendent) informed the Six Nations Iroquois that the only way to keep white intruders off their land would be for them to surrender it to the Crown, to be administered for their sole benefit. With this plan, the Six Nations Iroquois would retain lands that they actually occupied and a reserve of approximately 8,094 ha. The surrender of land was made by the Confederacy in January, 1841 (Johnston 1964; Lytwyn 2005).

Today, this history and those surrenders are still contested and there are numerous specific land claims that have been filed by the Six Nations Iroquois with the federal government in regard to lands within the Haldimand Tract (Johnston 1964; Lytwyn 2005).

### ***1.2.2 Historic Euro-Canadian Land Use: Township Survey and Settlement***

Historically, the study area is located in the Former Township of Nichol, Wellington County in part of Lot 19, Concession 11.

The S & G stipulates that areas of early Euro-Canadian settlement (pioneer homesteads, isolated cabins, farmstead complexes), early wharf or dock complexes, pioneer churches, and early cemeteries are considered to have archaeological potential. Early historical transportation routes (trails, passes, roads, railways, portage routes), properties listed on a municipal register or designated under the *Ontario Heritage Act* or a federal, provincial, or municipal historic landmark or site are also considered to have archaeological potential.

For the Euro-Canadian period, the majority of early nineteenth century farmsteads (i.e., those that are arguably the most potentially significant resources and whose locations are rarely recorded on nineteenth century maps) are likely to be located in proximity to water. The development of the network of concession roads and railroads through the course of the nineteenth century frequently influenced the siting of farmsteads and businesses. Accordingly, undisturbed lands within 100 m of an early settlement road are also considered to have potential for the presence of Euro-Canadian archaeological sites.

The first Europeans to arrive in the area were transient merchants and traders from France and England, who followed Indigenous pathways and set up trading posts at strategic locations along the well-traveled river routes. All of these occupations occurred at sites that afforded both natural landfalls and convenient access, by means of the various waterways and overland trails, into the hinterlands. Early transportation routes followed existing Indigenous trails, both along the lakeshore and adjacent to various creeks and rivers (ASI 2006).

Prior to 1849, Wellington County was part of the much larger Wellington District, which comprised all of contemporary Wellington, Waterloo and Grey Counties, as well as a portion of Dufferin County. Wellington County was named after Arthur Wellesley, the First Duke of Wellington, England. Between 1849 and 1854 it was a part of Waterloo County with the Village of Guelph as the county seat. Shortly thereafter it was separated out; the original townships in the county were Amaranth, Arthur, Eramosa, Erin, Garafaxa, Guelph, Maryborough, Nichol, Peel, Pilkington and Puslinch.





Nichol township was once part of a large tract of land along the Grand River granted, in 1784, to the Six Nations Indians who had allied themselves with the British during the American Revolution. Joseph Brant, on behalf of the Six Nations, sold Block 4 consisting of over 28,000 acres and comprising what was to become the Township of Nichol, to Colonel Clarke. The township was established in 1822 and named after Colonel Nichol who had distinguished himself under General Brock in the War of 1812. The Grand River divided the township, with the land to the north being Upper Nichol and the land to the south, Lower Nichol.

### *Village of Elora*

The village of Elora emerged at the junction of the Grand River and the Irvine River. The creek was named after local landowner Captain William Gilkison's birthplace in Scotland. He had served with the British forces in the War of 1812 as an assistant quartermaster-general, and in 1832 purchased some 14,000 acres of land in Nichol Township (Connon 1975). Gilkison named the village Elora, being inspired by the rocky gorge, after the famous cave temples of Ellora, India (*Ibid*). Before his death in 1833, he had established a sawmill and a general store. Shortly thereafter came a tavern, blacksmith shop and a post office, then, after a brief period of abandonment, in 1843 Messrs. Ross and Co. built more mills and a store, and Elora became a hub for agricultural commerce (*Ibid*). Gilkison's mill is still standing and currently operates as a hotel.

In its early years, the only means of accessing northwest Elora was by fording the Grand River, several miles downstream, or by crossing the Watts bridge and following the Bon Accord Road (Allan 1982). To solve this transportation obstacle, David Foote and John Cattnach took the contract of building the first Irvine River bridge in the fall of 1847. The bridge is said to have lasted 15 years without repairs and was only replaced when the timbers were considered unsafe. In January of 1859 the local Council decided to advertise a tender to build a timber truss bridge in place of the previous structure. In 1867, the contract for building a stone pier under the bridge was given to Charles Lawrence, a local bricklayer, plasterer and musician, and James Parsons. By 1868, the first bridge to stand on the pier had been constructed. In 1875, another bridge was built on the same limestone pier. This remained until it was replaced by the existing structure in 1921.

Irvine River Gorge Staircase Access and the Irvine Promenade, the first pedestrian staircase to the bottomlands and Irvine River, was constructed of wood in 1878 to facilitate Elora's nineteenth century heritage tourism and to provide access for Gorge-based recreational activities. The local paper, the *Lightning Express*, reported the new stairway "allowed ladies access to the delights from which they had heretofore been debarred." The current concrete stairs were constructed in 1859. The Irvine Promenade is a pedestrian trailway located on the east rim of the Irvine Gorge from Victoria Park to The David Street Bridge. The pier was built in 1867 by stonemasons Charles Lawrence and James Pearson, and in 1875 a new taller bridge was built in the same location. Subsequent bridges were built in 1921 and 2004, which included a full restoration of the pier – the tallest remaining nineteenth-century masonry pier in Ontario (Township of Centre Wellington 2016). It is listed in the Ontario Heritage Bridge Program.

There are five properties on Victoria Crescent that appear on the Township of Centre Wellington Municipal Heritage Register. Within the study area, 190 Victoria Crescent is a designated structure, built in 1878, and 200 Victoria Crescent is a listed structure, built in 1880 (Township of Centre Wellington 2016).





### **1.2.3 Historic Map Review**

Two historical maps were reviewed to determine the presence of historic features within the study area during the nineteenth century: the 1861 *Map of the County of Wellington, Canada West* (Figure 2), and the 1877 *Illustrated Atlas of the County of Wellington* (Figure 3). It should be noted, however, that not all features of interest were mapped systematically in the Ontario series of historical atlases, given that they were financed by subscription, and subscribers were given preference with regard to the level of detail provided on the maps. Moreover, not every feature of interest would have been within the scope of the atlases. While these maps provide details concerning the layout of the village of Elora, and the subdivision of its constituent properties, it does not indicate specific structures within these lots. The study area is located near historic transportation routes of David Street and what is now Wellington Road 7. It can be seen in the mapping that, by 1877, the David Street Bridge crosses over the Irvine River Gorge.

Use of historic map sources to reconstruct/predict the location of former features within the modern landscape generally proceeds by using common reference points between the various sources. These sources are then geo-referenced in order to provide the most accurate determination of the location of any property on historic mapping sources. The results of such exercises are often imprecise or even contradictory, as there are numerous potential sources of error inherent in such a process, including the vagaries of map production (both past and present), the need to resolve differences of scale and resolution, and distortions introduced by reproduction of the sources. To a large degree, the significance of such margins of error is dependent on the size of the feature one is attempting to plot, the constancy of reference points, the distances between them, and the consistency with which both they and the target feature are depicted on the period mapping.

### **1.2.4 Summary of Historical Context**

The background research demonstrates that the study area has been occupied by Indigenous peoples for millennia. It was within the territory of the historic Neutral Iroquois, subsequently utilized by the Seneca and Mississauga for resource extraction, and included in the treaty lands granted to the Six Nations of the Grand River, although the geographical extent of this treaty is presently debated.

The background research and historic mapping also demonstrates that the study area is located in the historic village of Elora, Former Township of Nichol, County of Wellington. The historic maps indicate that the study area is located in proximity to historic transportation routes.

## **1.3 Archaeological Context**

This section provides background research pertaining to previous archaeological fieldwork conducted within and in the vicinity of the study area, its environmental characteristics (including drainage, soils or surficial geology and topography, etc.), and current land use and field conditions. Three sources of information were consulted to provide information about previous archaeological research: the site record forms for registered sites housed at the MTCS; published and unpublished documentary sources; and the files of ASI.





### **1.3.1 Current Land Use and Field Conditions**

A property inspection was conducted on July 12, 2016 that noted the study area is located on private property within a residential neighbourhood in historic downtown Elora along the Irvine River Gorge (Plates 1-10). The study area is loosely bounded to the east by Victoria Crescent, to the west by The Irvine Promenade Trail, to the south by the house at 190 Victoria Crescent, and to the north by the house at 200 Victoria Crescent.

### **1.3.2 Geography**

In addition to the known archaeological sites, the state of the natural environment is a helpful indicator of archaeological potential. Accordingly, a description of the physiography and soils are briefly discussed for the study area.

The S & G stipulates that primary water sources (lakes, rivers, streams, creeks, etc.), secondary water sources (intermittent streams and creeks, springs, marshes, swamps, etc.), ancient water sources (glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, cobble beaches, etc.), as well as accessible or inaccessible shorelines (high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh, etc.) are characteristics that indicate archaeological potential.

Water has been identified as the major determinant of site selection and the presence of potable water is the single most important resource necessary for any extended human occupation or settlement. Since water sources have remained relatively stable in Ontario since 5,000 BP (Karrow and Warner 1990: Figure 2.16), proximity to water can be regarded as a useful index for the evaluation of archaeological site potential. Indeed, distance from water has been one of the most commonly used variables for predictive modeling of site location.

Other geographic characteristics that can indicate archaeological potential include: elevated topography (eskers, drumlins, large knolls, and plateaux), pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground, distinctive land formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings. Resource areas, including; food or medicinal plants (migratory routes, spawning areas) are also considered characteristics that indicate archaeological potential (S & G, Section 1.3.1).

The study area is situated within the Guelph Drumlin Field physiographic region of southern Ontario in a former spillway (Chapman and Putnam 1984). The Guelph Drumlin Field physiographic region (Chapman and Putnam 1984: 137-139) centres upon the City of Guelph and Guelph Township and occupies roughly 830 km<sup>2</sup>. Within the Guelph Drumlin Field, there are approximately 300 drumlins of varying sizes. For the most part these hills are of the broad oval type with slopes less steep than those of the Peterborough drumlins and are not as closely grouped as those in some other areas. The till in these drumlins is loamy and calcareous, and was derived mostly from dolostone of the Amabel Formation that can be found exposed below the Niagara Escarpment. Spillways are the former glacial meltwater channels. They are often found in association with moraines but in opposition are entrenched rather than elevated landforms. They are often, though not always, occupied by stream courses, the fact of which raises the debate of their glacial origin. Spillways are typically broad troughs floored wholly or in part by





gravel beds and are typically vegetated by cedar swamps in the lowest beds (Chapman and Putnam 1984:15).

Figure 4 depicts surficial geology for the study area. The surficial geology mapping demonstrates that the study area is underlain by deposits of gravel and Paleozoic bedrock. The gravel deposits are glaciofluvial river deposits and delta topset facies (OGS 2010).

Figure 5 depicts soil drainage for the study area. Soil drainage information indicates that the study area includes well-drained soils (Dept. of Agriculture 1962). Soils within the study area consist of Burford loam (Dept. of Agriculture 1962). Burford loam is a well drained soil consisting of loam surface horizons on gravel deposits. The gravel was deposited by glacial meltwaters in the form of spillways. The deposits are stratified with a considerable range in the size of the material from one stratum to another. The topography is gently undulating except along the edge of the terraces where slopes are often steep. Gravel, stones, and cobbles are usually present on the soil surface and throughout the soil profile. Profile depth to the underlying gravel varies within very short distances. Burford loam has been documented to possess the follow profile (Hoffman *et al.* 1963: 34, 35, 52 and 53):

The study area is located in proximity to Irvine River, a tributary of the Grand River. The Grand River drains an area of approximately 673,397 hectares. Its main stream begins northeast of Dundalk at 526 metres above sea level and flows for approximately 290 kilometres to Lake Erie at Port Maitland (Chapman and Putnam 1984: 95). The Grand River was an important transportation route and a critical resource extraction area for generations of Indigenous people. Historically, the river has been utilized as a navigable waterway, as a power source (such power sites served as settlement nuclei) and, above Brantford, as a course for driving logs (Chapman and Putnam 1984: 98). It is also the focus of The Haldimand Tract. The Grand River was designated as a Canadian Heritage River in 1994 (Canadian Heritage River Systems 2011).

### **1.3.3 Previous Archaeological Research**

In Ontario, information concerning archaeological sites is stored in the Ontario Archaeological Sites Database (OASD) maintained by the MTCS. This database contains archaeological sites registered within the Borden system. Under the Borden system, Canada has been divided into grid blocks based on latitude and longitude. A Borden block is approximately 13 km east to west, and approximately 18.5 km north to south. Each Borden block is referenced by a four-letter designator, and sites within a block are numbered sequentially as they are found. The study area under review is located in Borden block *AkHc*.

According to the OASD, four previously registered archaeological sites are located within one kilometre of the study area (MTCS 2015a). Site details are presented in Table 2, sites in bold are within 500 metres.





Table 1: List of previously registered sites within one kilometre of the study area

<b>Borden #</b>	<b>Site Name</b>	<b>Cultural Affiliation</b>	<b>Site Type</b>	<b>Researcher</b>
AkHc-11	N/A	Historic Euro-Canadian (1840-1883)	Church/Chapel	Wilson 2007
<b>AkHc-12</b>	Little Folks 1	Historic Euro-Canadian	Domestic midden	Parker 2008
<b>AkHc-13</b>	Little Folks 2	Historic Euro-Canadian	Domestic midden	Parker 2008
<b>AkHc-14</b>	Little Folks 3	Historic Euro-Canadian	Domestic midden	Parker 2008

According to the background research, one previous archaeological assessment has been conducted within 50 m of the study area. ASI (2003) conducted a Stage 1 archaeological assessment for the proposed Irvine River Bridge Widening at David Street over the gorge of Irvine River in the Town of Elora in the former Township of Nichol, Wellington County. The Stage 1 background assessment determined that while no sites had been registered within 250 metres of the subject property, ruins of the Elora Lime Kiln, built in 1872, are visible 25 metres north of the bridge. These ruins had not been subject to any archaeological investigation. A field review determined that most of the study area was disturbed and cleared of archaeological concern. However, the remains of the lime kiln, though disturbed by demolition activities, indicate archaeological potential in the surrounding areas. A protective buffer was recommended to enclose the ruins during construction, and should the proposed work extend beyond the current study area then Stage 2 archaeological assessment should be conducted.

### **1.3.4 Summary of Archaeological Context**

The review of archaeological work conducted in the area demonstrated that four previously registered archaeological sites are located within a one kilometer radius of the study area, three of which are within 500 metres. The study area is located adjacent to Irvine River and the Grand River. The historical context demonstrates that the study area is located in proximity to historic transportation routes. These criteria are indicative that the study area possesses potential for Indigenous and Euro-Canadian archaeological resources, depending on soil conditions and the degree to which soils have been subject to deep disturbance.

## **2.0 FIELD METHODS: PROPERTY INSPECTION**

A Stage 1 property inspection must adhere to the S & G, Section 1.2, Standards 1-6, which are discussed below. The entire property and its periphery must be inspected. The inspection may be either systematic or random. Coverage must be sufficient to identify the presence or absence of any features of archaeological potential. The inspection must be conducted when weather conditions permit good visibility of land features. Natural landforms and watercourses are to be confirmed if previously identified. Additional features such as elevated topography, relic water channels, glacial shorelines, well-drained soils within heavy soils and slightly elevated areas within low and wet areas should be identified and documented, if present. Features affecting assessment strategies should be identified and documented such as woodlots, bogs or other permanently wet areas, areas of steeper grade than indicated on topographic mapping, areas of overgrown vegetation, areas of heavy soil, and recent land disturbance such as grading, fill deposits and vegetation clearing. The inspection should also identify and document structures and built features that will affect assessment strategies, such as heritage structures or landscapes, cairns, monuments or plaques, and cemeteries.





The Stage 1 archaeological assessment property inspection was conducted under the field direction of Aleksandra Pradzynski of ASI, on July 12, 2016, in order to gain first-hand knowledge of the geography, topography, and current conditions and to evaluate and map archaeological potential of the study area. It was a visual inspection only and did not include excavation or collection of archaeological resources. There was no permission to enter the private properties at 190 and 200 Victoria Crescent and therefore the inspection took place only from the street at the east end and from the Irvine Promenade Trail at the west end of the study area.

Weather conditions for the inspection were overcast with a temperature of approximately 30 C. Previously identified features of archaeological potential were examined; additional features of archaeological potential not visible on mapping were identified and documented as well as any features that will affect assessment strategies. Field observations are compiled onto maps of the study area in Section 7.0 (Figure 6) and associated photographic plates are presented in Section 8.0 (Plates 1-10).

### **3.0 ANALYSIS AND CONCLUSIONS**

The historical and archaeological contexts have been analyzed to help determine the archaeological potential of the study area. These data are presented below in Section 3.1. Results of the analysis of the property inspection are then presented for the study area (Section 3.2).

#### **3.1 Analysis of Archaeological Potential**

The S & G, Section 1.3.1, list criteria that are indicative of archaeological potential. The Victoria Crescent Storm Sewer study area meets the following criteria indicative of archaeological potential:

- Previously identified archaeological sites (e.g. AjHd-21);
- Water sources: primary, secondary, or past water source (e.g. Irvine River, Grand River);
- Well-drained soils (e.g. Burford loam)
- Early historic transportation routes (e.g. David Street)

These criteria are indicative of potential for the identification of Indigenous and Euro-Canadian archaeological resources, depending on the soil conditions and the degree to which soils have been subject to disturbance.

#### **3.2 Analysis of Property Inspection Results**

The property inspection determined that the entire study area is considered to retain archaeological potential. Those portions of the study area within the lawns and wooded areas require Stage 2 archaeological assessment by test pitting survey at five metre intervals, as per S & G Section 2.1.2, prior to any disturbance to the property (Figure 6: area marked in green, Plates 1 through 10). The extent of disturbance from the existing sewer infrastructure and right-of-ways should be confirmed by a Stage 2 test pit survey.





### **3.3 Conclusions**

The Stage 1 background research determined that four previously registered archaeological sites are located within one kilometre of the study area. Both houses at 190 and 200 Victoria Crescent appear on the Township of Centre Wellington Municipal Heritage Register. A review of the historical and archaeological contexts of the study area also suggested that it has potential for the identification of Indigenous and Euro-Canadian archaeological resources, depending on the degree to which soils have been impacted by disturbance.

A property inspection determined that the entire study area retains archaeological potential. These lands require Stage 2 archaeological assessment by test-pit survey at five metre intervals, as per S&G Section 2.1.2., prior to any proposed disturbance to the property. The extent of any disturbance from the installation of the existing storm sewer infrastructure should be confirmed by test pit survey, as per S&G Section 2.1.8.

### **4.0 RECOMMENDATIONS**

In light of these results, ASI makes the following recommendations:

1. The entire study area retains archaeological potential. These lands require Stage 2 archaeological assessment by test-pit survey at five metre intervals, prior to any proposed impacts to the property;
2. Should the proposed work extend beyond the current study area then further Stage 1 archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.

Notwithstanding the results and recommendations presented in this study, ASI notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. In the event that archaeological remains are found during subsequent construction activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the MTCS should be immediately notified.





## 5.0 ADVICE ON COMPLIANCE WITH LEGISLATION

ASI advises compliance with the following legislation:

- This report is submitted to the Minister of Tourism, Culture and Sport as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c. 18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological fieldwork and report recommendations ensure the conservation, protection and preservation of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the MTCS a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development;
- It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological fieldwork on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*;
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the *Ontario Heritage Act*; and,
- The *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 requires that any person discovering human remains must notify the police or coroner.





## 6.0 REFERENCES CITED

- Allan, R.  
1982 *History of Elora*. Elora Women's Institute
- ASI (Archaeological Services Inc.)  
2003 Stage 1 Archaeological Assessment Irvine River Bridge Widening, David Street East, Town of Elora, Wellington County, Ontario.  
2006 Historical Overview and Assessment of Archaeological Potential Don River Watershed, City Of Toronto.
- Birch, J. and R.F. Williamson  
2013 *The Mantle Site: An Archaeological History of an Ancestral Wendat Community*. Lanham: Rowman & Littlefield Publishers, Inc.
- Brown, J.  
1995 On Mortuary Analysis – with Special Reference to the Saxe-Binford Research Program. In: *Regional Approaches to Mortuary Analysis*. Edited by: L. A. Beck. New York: Plenum Press, pp. 3-23.
- Canadian Heritage River Systems  
2011 Canadian Heritage River Systems Grand River <<http://chrs.ca/the-rivers/grand/designation>>
- Chapman, L. J. and F. Putnam  
1984 *The Physiography of Southern Ontario*. Ontario Geological Survey, Special Volume 2. Ontario Ministry of Natural Resources, Toronto.
- Connon, J.  
1975 *The Early History of Elora, Ontario and Vicinity*. Wilfred Laurier University Press.
- Department of Agriculture of Agri-Food Canada  
1996 1:50,000. *Soils of Waterloo County, Ontario*. Soil Survey Report No. 44. Sheet 1.
- Dodd, C.F., D.R. Poulton, P.A. Lennox, D.G. Smith and G.A. Warrick.  
1990 The Middle Ontario Iroquoian Stage. In: *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. Occasional Publication of the London Chapter, OAS Number 5. London: Ontario Archaeological Society Inc., pp. 321-360.
- Ecologistics Ltd.  
1996 *Research Sub-Program. State of the Resources: Improving the Land Resource Data Base – The Regional Municipality of Waterloo Soil Information Upgrade*. COESA Report No.: RES/MON-011/96.  
<[http://sis.agr.gc.ca/cansis/publications/surveys/on/on44a/on44a\\_report.pdf](http://sis.agr.gc.ca/cansis/publications/surveys/on/on44a/on44a_report.pdf)>
- Edwards, T.W.D. and P. Fritz  
1988 Stable-isotope palaeoclimate records from southern Ontario, Canada: comparison of results from marl and wood. *Canadian Journal of Earth Sciences*, 25: 1397-1406.





Ellis, C.J. and D.B. Deller

- 1990 Paleo-Indians. In: *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. Occasional Publication of the London Chapter, OAS Number 5. London: Ontario Archaeological Society Inc., pp. 37-64.

Ellis, C.J., I.T. Kenyon and M.W. Spence.

- 1990 The Archaic. In *The Archaeology of Southern Ontario to A.D. 1650*. Edited by C.J. Ellis and N. Ferris, pp. 65-124. London Chapter, Ontario Archaeological Society, London, Ontario.

Ellis, C.J., P.A. Timmins and H. Martelle

- 2009 At the Crossroads and Periphery: The Archaic Archaeological Record of Southern Ontario. In: *Archaic Societies: Diversity and Complexity across the Midcontinent*. Edited by: T.E. Emerson, D.L. McElrath and A.C. Fortier. Albany, New York: State University of New York Press, pp. 787-837.

Ferris, N.

- 2013 Introduction: Seeing Ontario's Past Archaeologically. In: *Before Ontario: The Archaeology of a Province*. Edited by: M.K. Munson and S.M. Jamieson. Montreal & Kingston: McGill-Queen's University Press, pp. 3-23.

Gould, A.

- 1981 History of the Mississauga Indians. Appendix to the Maracle Site Report.

Historical Atlas Publishing Co.

- 1906 Historical Atlas of the County of Wellington Ontario. Toronto: Historical Atlas Publishing Co. 1972 reprint edited by Mika Silk Screening Limited, Belleville.

Holloway, L. and P. Hubbard

- 2001 *People and place: the extraordinary geographies of everyday life*. Harlow, England: Prentice Hall.

Janusas, S.E.

- 1988 *An Archaeological Perspective of an Historic Overview of the Regional Municipality of Waterloo*. Regional Municipality of Waterloo: Planning and Development Department Archaeology Division.

Johnson, W., Sir.

- 1921 *The Papers of Sir William Johnson*, Volume 11: The Indian Uprising, 1764-1765. Albany: University of the State of New York.

Johnston, C.E.

- 1964 *The Valley of the Six Nations: A Collection of Documents on the Indian Lands of the Grand River*. Toronto: The Champlain Society.

Karrow, P.F. and B.G. Warner





- 1990 The Geological and Biological Environment for Human Occupation in Southern Ontario. In *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. London Chapter, OAS, No. 5. London, Ontario, pp. 5-36.
- Konrad, V.A.  
1974 *Iroquois Villages on the North Shore of Lake Ontario, 1665-1687*. Paper Presented at the Fall Meeting of the Ontario Historical Geographers. November 9, 1974, Carleton University, Ottawa, Ontario.
- Lennox, P.A. and W.R. Fitzgerald  
1990 The Culture History and Archaeology of the Neutral Iroquoians. In: *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. Occasional Publication of the London Chapter, OAS Number 5. London: Ontario Archaeological Society Inc., pp. 405-456.
- Leslie, G. and Wheelock, C.J.  
1861 *Map of the County of Wellington, Canada West*. Orangeville.
- Lytwyn, V.P.  
2005 Historical research report: Aboriginal Settlement and Use of the North Pickering Development Planning Area and Adjacent Lands, 1690-1923.
- Ministry of Consumer Services  
1990 *Cemeteries Act (Revised)*  
  
2002 *Funeral, Burial and Cremation Services Act*
- Ministry of Culture  
2005 *Ontario Heritage Act*.
- Ministry of Environment  
1990 *Environmental Assessment Act*
- Ministry of Tourism and Culture  
2011 *Standards and Guidelines for Consultant Archaeologists*. Cultural Programs Branch, Ontario Ministry of Culture, Toronto.
- Ministry of Tourism, Culture and Sport (MTCS)  
2015a Email communication, Rob von Bitter, MTCS Data Coordinator, September 8, 2015.  
  
2015b *PastPortal* <[www.pastport.mtc.gov.on.ca](http://www.pastport.mtc.gov.on.ca)>
- Mississaugas of the New Credit First Nation (MNCFN)  
n.d. *History*.  
<[http://www.newcreditfirstnation.com/index.php?option=com\\_content&view=article&id=16&Itemid=17](http://www.newcreditfirstnation.com/index.php?option=com_content&view=article&id=16&Itemid=17)>
- Municipal Engineers' Association  
2000 *Municipal Class Environmental Assessment* [as amended in 2007 and 2011]





Ontario Geological Survey (OGS)

- 2010 *Surficial Geology of Southern Ontario*.  
<[http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm\\_dir.asp?type=pub&id=MRD128-REV](http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=pub&id=MRD128-REV)>

Ontario's Historical Plaques

- n.d. *The Founder of Elora*. <[http://ontarioplaques.com/Plaques/Plaque\\_Wellington17.html](http://ontarioplaques.com/Plaques/Plaque_Wellington17.html)>

Parker, B.

- 2008 Archaeological Assessment (Stage 1-2) Proposed Redevelopment of the Little Folks Lands, LFL Properties Ltd., Village of Elora, Twp. of Centre Wellington (Formerly Township of Nichol), County of Wellington.

Parker Pearson, M.

- 1999 *The Archaeology of Death and Burial*. College Station: Texas A&M University Press.

Presant, E.W. and R.E. Wicklund

- 1971 *The Soils of Waterloo County*. Report No. 44 of the Ontario Soil Survey. Canada Department of Agriculture.

Smith, D.B.

- 2002 Their Century and a Half on the Credit: The Mississaugas in Mississauga. In: *Mississauga: The First 10,000 Years*. Edited by: F.A. Dieterman. Toronto: Eastendbooks, pp. 107-122.

Spence, M.W., R.H. Pihl and C. Murphy

- 1990 Cultural Complexes of the Early and Middle Woodland Periods. In: *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. Occasional Publications 5. London Chapter, Ontario Archaeological Society, London, pp. 125-170.

Stone, L.M. and D. Chaput

- 1978 History of the Upper Great Lakes. In: *Handbook of North American Indians*, Volume 15: Northeast. Edited by B.G. Trigger. Washington: Smithsonian Institute, pp. 602-609

Township of Centre Wellington

- n.d. *Elora Upper Grand Gorge Trailway and Water Access Points*  
<<http://www.centrewellington.ca/beactive/Pages/Recreation,%20Parks%20and%20Facilities/Trails.aspx>>
- 2016 Township of Centre Wellington Municipal Heritage Register  
<<http://www.centrewellington.ca/beactive/Pages/Heritage/Heritage-Register.aspx>>

Walker and Miles

- 1877 *Illustrated Atlas of the County of Wellington*. Toronto.

Williamson, R.F.

- 1990 The Early Iroquoian Period of Southern Ontario. In: *The Archaeology of Southern Ontario to A.D. 1650*. Edited by: C.J. Ellis and N. Ferris. Occasional Publication of the





London Chapter, OAS Number 5. London: Ontario Archaeological Society Inc., pp. 291-320.

2008 *Toronto: An Illustrated History of its First 12,000 Years*. Edited by: R. Williamson.  
Toronto: James Lorimer & Co.

Wilson, J.

2008 Archaeological Assessment (Stage 4) The Elora Professional Centre Corp. Property  
(AkHc-11), 7461 Wellington Road #21, Part of Lot 1, Concession 1, Twp. of Pilkington,  
Wellington County, Ontario





## **7.0 MAPS**





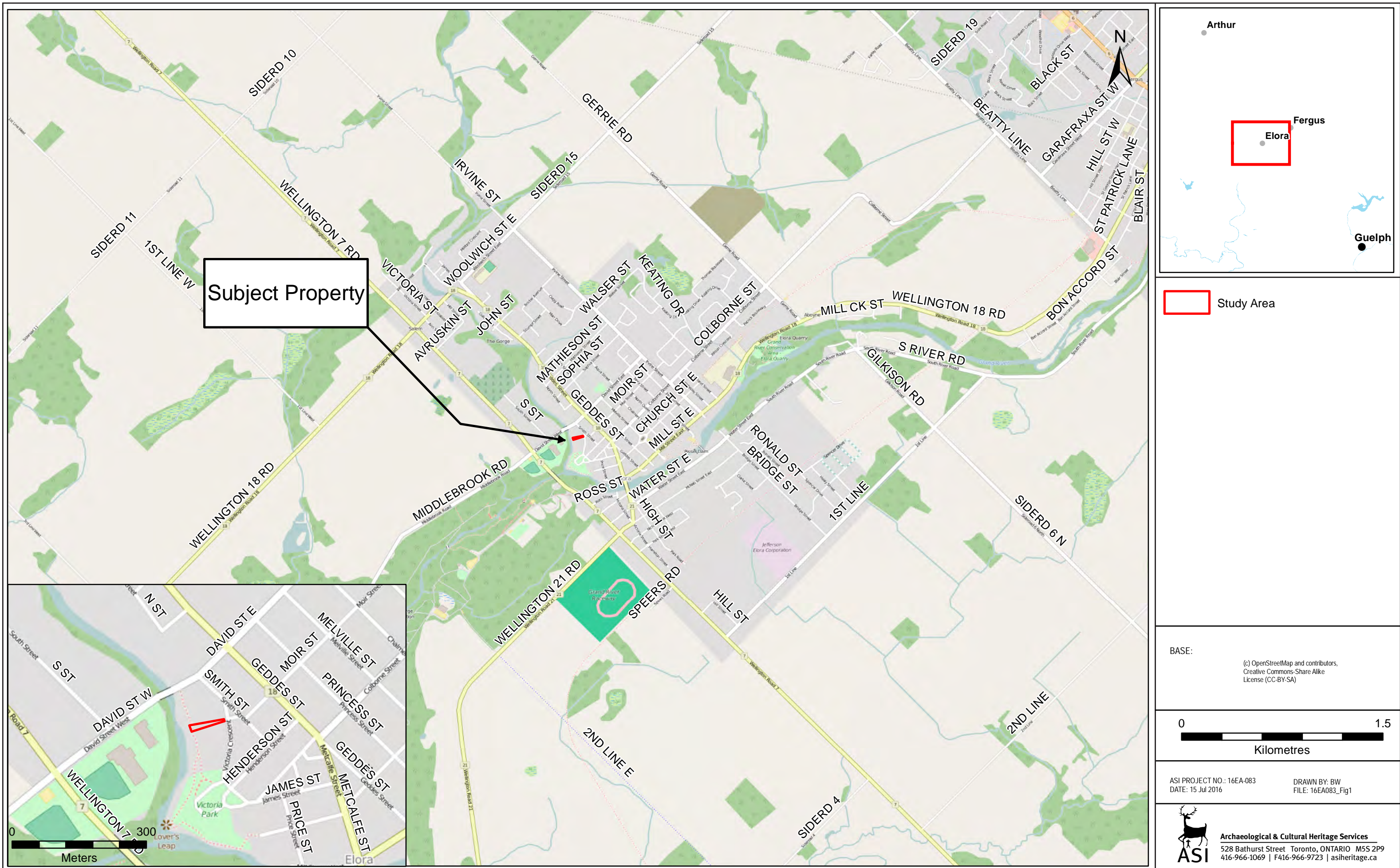
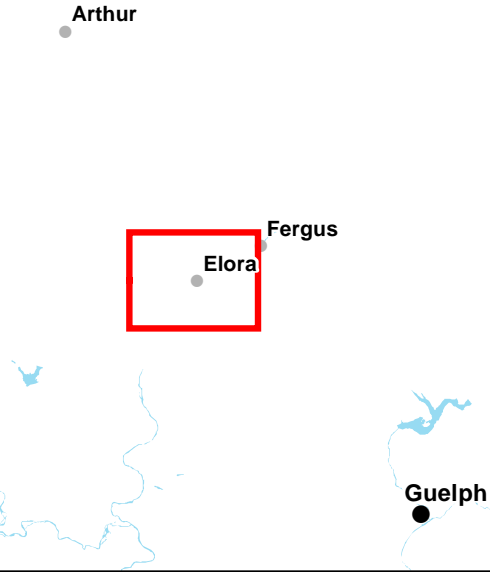



Figure 1: Victoria Crescent Storm Sewer Study Area Location



 Study Area

BASE:  
(c) OpenStreetMap and contributors,  
Creative Commons-Share Alike  
License (CC-BY-SA)

0  1.5  
Kilometres

ASI PROJECT NO.: 16EA-083  
DATE: 15 Jul 2016  
DRAWN BY: BW  
FILE: 16EA083\_Fig1

 **Archaeological & Cultural Heritage Services**  
528 Bathurst Street Toronto, ONTARIO M5S 2P9  
416-966-1069 | F416-966-9723 | asiheritage.ca





Figure 2: Victoria Crescent Storm Sewer Study Area (approximate location) overlaid on 1861 Map of the County of Wellington, Canada West



Figure 3: Victoria Crescent Storm Sewer Study Area (approximate location) overlaid on 1877 Illustrated Atlas of the County of Wellington.



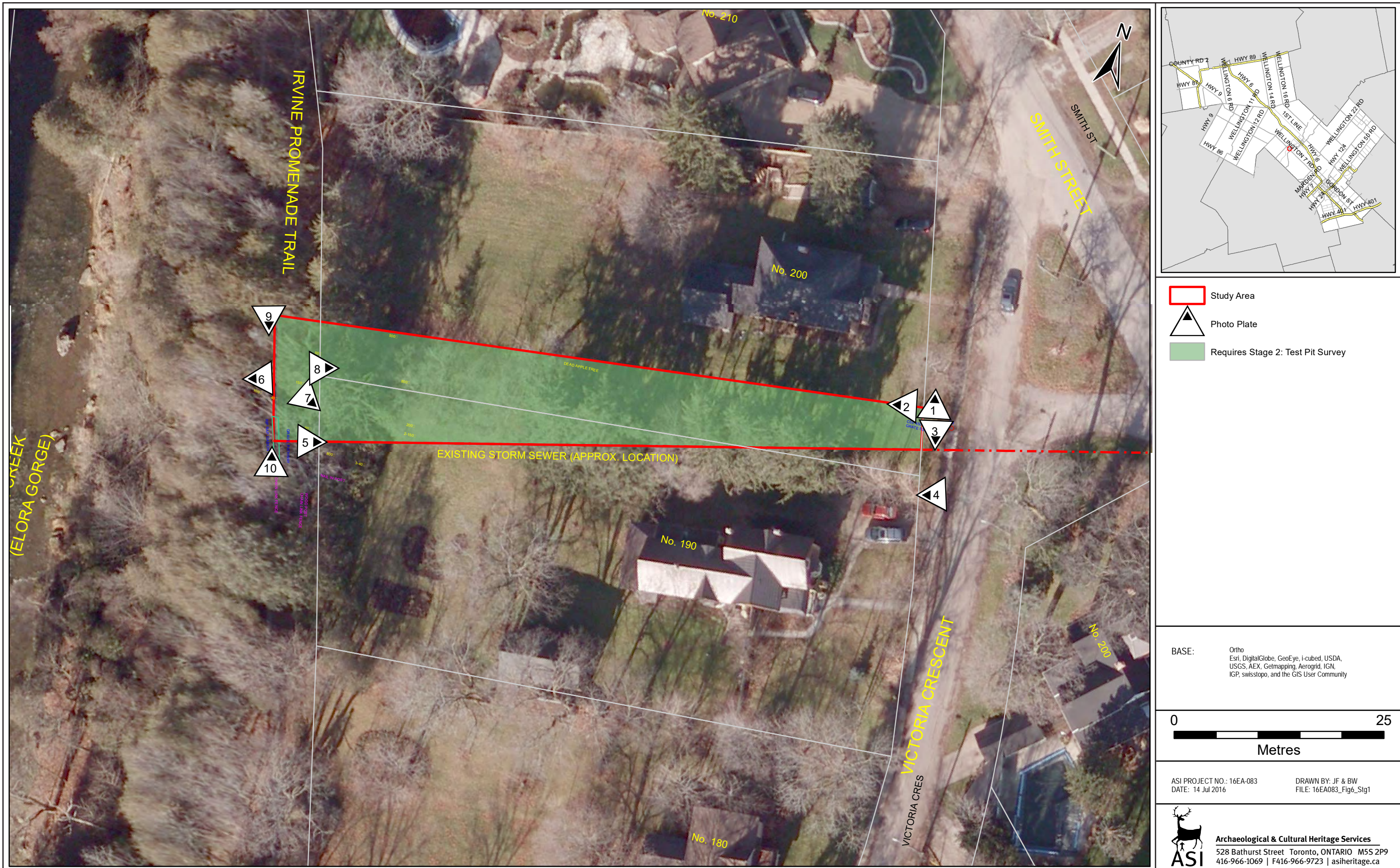


Figure 6: Victoria Crescent Storm Sewer Results of Property Inspection



## 8.0 IMAGES



Plate 1: North view of Victoria Crescent environs outside eastern limits of the study area



Plate 2: West view of study area and 200 Victoria Crescent; Area possesses archaeological potential and requires Stage 2 test pit survey.



Plate 3: South view of Victoria Crescent environs outside eastern limits of the study area



Plate 4: West view of 190 Victoria Crescent outside southern limits of the study area; Study area west of the driveway, possesses archaeological potential and requires Stage 2 test pit survey.





Plate 5: East view of study area; Area possesses archaeological potential and requires Stage 2 test pit survey.



Plate 6: West view of Irvine Gorge and existing gabion wall



Plate 7: Southeast view of study area; area possesses archaeological potential and requires Stage 2 test pit survey.



Plate 8: East view of study area; Area possesses archaeological potential and requires Stage 2 test pit survey.



Plate 9: South view of Promenade Trail, western limits of the study area; Area east of the trail possesses archaeological potential and requires Stage 2 test pit survey.

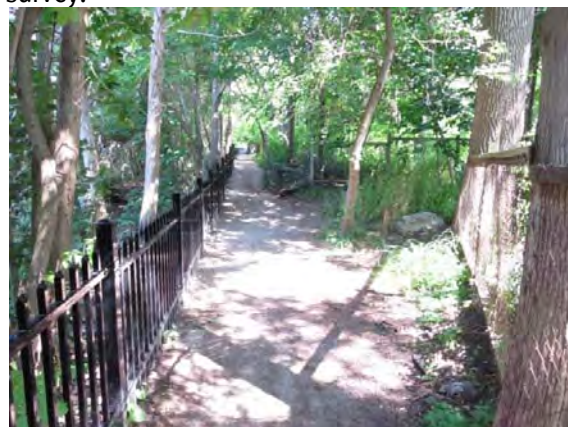


Plate 10: North view of Promenade Trail, western limits of the study area; Area east of the trail possesses archaeological potential and requires Stage 2 test pit survey.



**Ministry of Tourism, Culture and Sport**

Archaeology Programs Unit  
Programs and Services Branch  
Culture Division  
401 Bay Street, Suite 1700  
Toronto ON M7A 0A7  
Tél.: (416) 314-7691  
Email: [Ian.Hember@ontario.ca](mailto:Ian.Hember@ontario.ca)

**Ministère du Tourisme, de la Culture et du Sport**

Unité des programmes d'archéologie  
Direction des programmes et des services  
Division de culture  
401, rue Bay, bureau 1700  
Toronto ON M7A 0A7  
Tél. : (416) 314-7691  
Email: [Ian.Hember@ontario.ca](mailto:Ian.Hember@ontario.ca)



Dec 28, 2016

Robert Pihl (P057)

ASI Archaeological and Cultural Heritage Services  
528 Bathurst Toronto ON M5S 2P9

**RE: Review and Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "STAGE 1 ARCHAEOLOGICAL ASSESSMENT VICTORIA CRESCENT STORM SEWER PART OF LOT 19, CONCESSION 11 FORMER TOWNSHIP OF NICHOL, COUNTY OF WELLINGTON TOWN OF ELORA, TOWNSHIP OF CENTRE WELLINGTON, WELLINGTON COUNTY, ONTARIO", Dated Nov 22, 2016, Filed with MTCS Toronto Office on Dec 12, 2016, MTCS Project Information Form Number P057-0836-2016, MTCS File Number 0005185**

Dear Mr. Pihl:

This office has reviewed the above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the Ontario Heritage Act, R.S.O. 1990, c 0.18.<sup>1</sup> This review has been carried out in order to determine whether the licensed professional consultant archaeologist has met the terms and conditions of their licence, that the licensee assessed the property and documented archaeological resources using a process that accords with the 2011 Standards and Guidelines for Consultant Archaeologists set by the ministry, and that the archaeological fieldwork and report recommendations are consistent with the conservation, protection and preservation of the cultural heritage of Ontario.

The report documents the assessment/mitigation of the study area as depicted in Figure 6 of the above titled report and recommends the following:

1. The entire study area is considered to retain archaeological potential. These lands require Stage 2 archaeological assessment by test-pit survey at five metre intervals, prior to any proposed impacts to the property;
2. Should the proposed work extend beyond the current study area then further Stage 1 archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.

Based on the information contained in the report, the ministry is satisfied that the fieldwork and reporting for the archaeological assessment are consistent with the ministry's 2011 Standards and Guidelines for Consultant Archaeologists and the terms and conditions for archaeological licences. This report has been entered into the Ontario Public Register of Archaeological Reports. Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.



Should you require any further information regarding this matter, please feel free to contact me.

Sincerely,

Ian Hember  
Archaeology Review Officer

cc. Archaeology Licensing Officer  
Dave Donaldson, Triton Engineering Services Limited  
Colin Baker, Township of Centre Wellington

<sup>1</sup>In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.



## **Appendix I**

### **Decision Matrix for the Evaluation of Alternatives**



# ANALYSIS/EVALUATION OF ALTERNATIVES

				ALTERNATIVE 1		
CRITERIA		Criteria Significance <sup>(1)</sup>	Normalized Weighting of Criteria	"Do Nothing"	Performance Marking <sup>(3)</sup>	Impacts <sup>(4)</sup>
CULTURAL HERITAGE ENVIRONMENT						
• Archaeological Resources • Built Heritage Resources and Cultural Heritage Resources	• Impacts to archaeological resources and areas of archaeological potential • Potential impacts to known or potential built heritage resources and Cultural Heritage Landscapes	3	1.00	• Archaeological assessment not immediately required.	0	0.00
Total Impacts on Cultural Heritage Environment <sup>(4)</sup>						0.00
Ranking of Alternative Within Cultural Heritage Environment <sup>(6)</sup>						1
SOCIAL ENVIRONMENT						
• No immediate construction activity expected.						
Land Use	• Impacts on private property	4	0.44	• No immediate impacts to natural features. • Eventual failure of the existing structure could lead to erosion, flooding, and property damage. • Currently no easement for the storm sewer across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• No immediate impacts.	0	0.00
	• Impacts on land use and traffic	2	0.22	• No traffic impacts.	0	0.00
Total Impacts on Social Environment <sup>(4)</sup>						-0.89
Ranking of Alternative within Social Environment <sup>(6)</sup>						1
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Potential impact to trees and vegetation in the event of structural failure of the existing storm sewer.	-1	-0.29
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential impact to terrestrial habitat in the event of structural failure of the existing storm sewer.	-1	-0.29
Hydrology	• Impacts to storm water management	3	0.21	• The ability for this portion of the storm sewer to convey peak flows under existing and future growth conditions is limited given its current condition. Storm flow in excess of existing Trunk Sewer capacity will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The elevation and grade of the existing Trunk Sewer will limit future design improvements to the upstream storm sewer network.	-2	-0.43
	• Impacts to water quality	3	0.21	• No opportunity to add water quality controls.	-1	-0.21
Total Impacts on Natural Environment <sup>(4)</sup>						-1.21
Ranking of Alternative Within Natural Environment <sup>(6)</sup>						4
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement	4	0.17	• Does not address the opportunity statement.	-2	-0.33
	• Design considerations	3	0.13	• No immediate impacts.	0	0.00
	• Ability to meet current municipal design standards	3	0.13	• Existing structure does not meet current municipal design standards for storm sewers.	0	0.00
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• No immediate impacts.	0	0.00
	• Initial anticipated studies	4	0.17	• No immediate impacts.	0	0.00
	• Initial anticipated approvals	4	0.17	• No immediate impacts.	0	0.00
	• Maintenance/access considerations	3	0.13	• This portion of the storm sewer is located on private property, which imposes access issues for maintenance.	-2	-0.25
Total Impacts on Technical Environment <sup>(4)</sup>						-0.58
Ranking of Alternative Within Technical Environment <sup>(6)</sup>						4
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Capital works not immediately required; however, the Trunk Sewer will eventually require replacement, therefore, capital costs are only deferred. It is expected that deferred cost will be approximately \$190,000.	-1	-0.50
	• Operation and maintenance costs	3	0.50	• Highest expected operation and maintenance costs due to current condition of the Trunk Sewer.	-2	-1.00
Total Impacts on Economical Environment <sup>(4)</sup>						-1.50
Ranking of Alternative within Economical Environment <sup>(6)</sup>						4
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>						-4.19
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>						3



ANALYSIS/EVALUATION OF ALTERNATIVES

				ALTERNATIVE 2		
CRITERIA		Criteria Significance <sup>(4)</sup>	Normalized Weighting of Criteria	Replace Storm Sewer in Same Location	Performance Marking <sup>(3)</sup>	Impacts <sup>(4)</sup>
CULTURAL HERITAGE ENVIRONMENT						
• Archaeological Resources • Built Heritage Resources and Cultural Heritage Resources	• Impacts to archaeological resources and areas of archaeological potential • Potential impacts to known or potential built heritage resources and Cultural Heritage Landscapes	3	1.00	• A Stage 1 archaeological assessment has been completed. Prior to any construction, a Stage 2 archaeological assessment is required. • Heritage Impact Assessment (190 Victoria Crescent) and Cultural Heritage Evaluation Report (200 Victoria Crescent) are required.	0	0.00
Total Impacts on Cultural Heritage Environment <sup>(4)</sup> Ranking of Alternative Within Cultural Heritage Environment <sup>(6)</sup>						0.00 1
SOCIAL ENVIRONMENT						
				• Duration of construction activities estimated to be 6 weeks.		
Land Use	• Impacts on private property	4	0.44	• Aesthetics of private property temporarily impacted due to removal of mature trees and vegetation. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. • An easement for the new storm sewer alignment is required across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Disruptions to private property residents (especially house No. 190 and No. 200 Victoria Crescent) during construction phase.	-1	-0.33
	• Impacts on land use and traffic	2	0.22	• Minimal disruption to Victoria Crescent traffic expected during construction phase. • Temporary (relatively short duration) disruption to access to a portion of private properties (house No. 200 Victoria Crescent) during construction.	-1	-0.22
Total Impacts on Social Environment <sup>(4)</sup> Ranking of Alternative within Social Environment <sup>(6)</sup>						-1.44 3
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Moderate impact to trees and vegetation on private property (No. 190 and No. 200 Victoria Crescent). • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 2 would result in the removal of 25 trees out of a total of 52 existing trees along the property line between house No. 190 and No. 200 (47 of the trees are on private property and 5 are on municipal property). Removal of 18 trees are a direct result of disturbance from construction activities and 7 trees (all on private property) are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 52 existing trees, 10 are classified as having a dominant crown, 12 are co-dominant, 14 are intermediate, and 16 are suppressed/overtopped. Of the 7 trees (all on private property) that are recommended for removal due to poor/very poor/dead condition, 1 has a co-dominant crown class, 1 has an intermediate crown class, and 5 have suppressed crown classes. Of the 18 trees that would require removal due to construction, 8 are classified as having a dominant crown, 5 as having an intermediate crown, and 5 as having a suppressed crown. ***NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-2	-0.57
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential for low/moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-1	-0.29
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The elevation and grade of the Trunk Sewer is constrained by the elevation of the existing outlet, therefore limiting future design improvements to the upstream storm sewer network.	1	0.21
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(4)</sup> Ranking of Alternative Within Natural Environment <sup>(6)</sup>						-0.21 2
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement	4	0.17	• Addresses opportunity statement.	2	0.33
	• Design considerations	3	0.13	• Limited impacts.	1	0.13
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Potential conflict with utilities.	0	0.00
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), impact assessment on natural heritage features, recommendations for compensation and mitigation.	0	0.00
	• Initial anticipated approvals	4	0.17	• Legal easement on No. 190 and 200 Victoria Crescent • Grand River Conservation Authority (GRCA) for work within a Regulated Area • Ministry of the Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA)	0	0.00
	• Maintenance/access considerations	3	0.13	• This portion of the storm trunk sewer is located on private property (difficult access for maintenance). • An easement for the new storm sewer alignment is required across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.25
Total Impacts on Technical Environment <sup>(4)</sup> Ranking of Alternative Within Technical Environment <sup>(6)</sup>						0.33 2
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Costs to restore disturbed areas is increased due to moderate impact to existing mature trees/vegetation. • A new outlet structure is not required; the existing outlet to Irvine Creek can be incorporated into the design of the new trunk sewer. • Limited potential for project cost escalation (i.e. unexpected subsurface conditions). • Estimated \$150,000	0	0.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future. • Increased costs associated with monitoring establishment of vegetation following site restoration.	1	0.50
Total Impacts on Economical Environment <sup>(4)</sup> Ranking of Alternative within Economical Environment <sup>(6)</sup>						0.50 2
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>						-0.83
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>						2



ANALYSIS/EVALUATION OF ALTERNATIVES

PRELIMINARY PREFERRED ALTERNATIVE						
				ALTERNATIVE 3		
CRITERIA		Criteria Significance <sup>(1)</sup>	Normalized Weighting of Criteria	New Storm Sewer on New Alignment Along Southerly Limit of House No. 200 Victoria Crescent, Connected to Existing Outlet Structure	Performance Marking <sup>(3)</sup>	Impacts <sup>(4)</sup>
CULTURAL HERITAGE ENVIRONMENT						
• Archaeological Resources • Built Heritage Resources and Cultural Heritage Resources	• Impacts to archaeological resources and areas of archaeological potential • Potential impacts to known or potential built heritage resources and Cultural Heritage Landscapes	3	1.00	• A Stage 1 archaeological assessment has been completed. Prior to any construction, a Stage 2 archaeological assessment is required. • Heritage Impact Assessment (190 Victoria Crescent) and Cultural Heritage Evaluation Report (200 Victoria Crescent) are required.	0	0.00
Total Impacts on Cultural Heritage Environment <sup>(4)</sup>					0.00	
Ranking of Alternative Within Cultural Heritage Environment <sup>(6)</sup>					1	
SOCIAL ENVIRONMENT						
• Duration of construction activities expected to be 6 weeks.						
Land Use	• Impacts on private property	4	0.44	• Temporary impact to aesthetics of private property (No. 200 Victoria Crescent) until disturbed vegetation is fully restored to existing or better conditions. • The majority of mature trees will be untouched. • New alignment requires easement on private property (house No. 190 and No. 200 Victoria Crescent). • Existing Trunk Sewer will require decommissioning.	-1	-0.44
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Disruption to private property residents (house No. 190 and No. 200 Victoria Crescent) during construction phase.	-1	-0.33
	• Impacts on land use and traffic	2	0.22	• Minimal disruption to Victoria Crescent traffic. • Temporary (relatively short duration) disruption to access to a portion of private properties (house No. 200 Victoria Crescent) during construction.	-1	-0.22
Total Impacts on Social Environment <sup>(4)</sup>					-1.00	
Ranking of Alternative within Social Environment <sup>(6)</sup>					2	
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Low impact to trees and terrestrial habitat on private properties (No. 190 and No. 200 Victoria Crescent). • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 3 would result in the removal of 15 trees out of a total of 52 existing trees along the property line between house No. 190 and No. 200 (47 of the trees are on private property and 5 are on municipal property). Removal of 8 trees are a direct result of disturbance from construction activities and 7 trees (all on private property) are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 52 existing trees, 10 are classified as having a dominant crown, 12 are co-dominant, 14 are intermediate, and 16 are suppressed/overtopped. Of the 7 trees (all on private property) that are recommended for removal due to poor/very poor/dead condition, 1 has a co-dominant crown class, 1 has an intermediate crown class, and 5 have suppressed crown classes. Of the 8 trees that would require removal due to construction, 1 is classified as having a dominant crown, 1 is classified as having a co-dominant crown, 1 as having an intermediate crown, and 5 as having a suppressed/overtopped crown. **NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a supressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-1	-0.29
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Limited impact to wildlife and wildlife habitat anticipated due to the anticipated number and type of trees requiring removal.	0	0.00
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The elevation and grade of the Trunk Sewer is constrained by the elevation of the existing outlet, therefore limiting future design improvements to the upstream storm sewer network.	1	0.21
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(4)</sup>					0.36	
Ranking of Alternative Within Natural Environment <sup>(6)</sup>					1	
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement	4	0.17	• Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.	2	0.33
	• Design considerations	3	0.13	• Limited impacts.	1	0.13
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Potential conflict with utilities.	0	0.00
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), impact assessment on natural heritage features, recommendations for compensation and mitigation.	0	0.00
	• Initial anticipated approvals	4	0.17	• Legal easement on No. 190 and 200 Victoria Crescent • GRCA for work within a Regulated Area • MECP ECA	0	0.00
	• Maintenance/access considerations	3	0.13	• This portion of the storm trunk sewer is located on private property (difficult access for maintenance). • An easement for the new storm sewer alignment is required across private property (house No. 200 Victoria Crescent).	-1	-0.13
Total Impacts on Technical Environment <sup>(4)</sup>					0.46	
Ranking of Alternative Within Technical Environment <sup>(6)</sup>					1	
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Cost to restore disturbed areas is minimized since there is a low impact to trees/vegetation that will require restoration. • A new outlet structure is not required; the existing outlet to Irvine Creek can be incorporated into the design of the new trunk sewer. • Limited potential for project cost escalation (i.e. unexpected subsurface conditions). • Estimated \$165,000	0	0.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future.	2	1.00
Total Impacts on Economical Environment <sup>(4)</sup>					1.00	
Ranking of Alternative within Economical Environment <sup>(6)</sup>					1	
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>					0.82	
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>					1	



# ANALYSIS/EVALUATION OF ALTERNATIVES

				ALTERNATIVE 4A		
CRITERIA		Criteria Significance <sup>(1)</sup>	Normalized Weighting of Criteria	New Storm Sewer on New Alignment Along Victoria Crescent and Through Victoria Park, Including the Installation of a New Outlet Structure Through the Bank of Irvine Creek	Performance Marking <sup>(3)</sup>	Impacts <sup>(4)</sup>
CULTURAL HERITAGE ENVIRONMENT						
• Archaeological Resources • Built Heritage Resources and Cultural Heritage Resources	• Impacts to archaeological resources and areas of archaeological potential • Potential impacts to known or potential built heritage resources and Cultural Heritage Landscapes	3	1.00	• A Stage 1 archaeological assessment is necessary to determine the archaeological potential; however, given the archaeological sensitivity of the area, it is assumed that further archaeological assessment (Stage 2) will be required. • Installation of a new outlet through the side of the Elora Gorge will impact the cultural heritage landscape.	-2	-2.00
Total Impacts on Cultural Heritage Environment <sup>(4)</sup>						-2.00
Ranking of Alternative Within Cultural Heritage Environment <sup>(6)</sup>						2
SOCIAL ENVIRONMENT						
• Duration of construction activities expected to be 3.5 months and directly affect approximately 10 private properties.						
Land Use	• Impacts on private property	4	0.44	• Access to private properties interrupted temporarily during construction period. • Private property landscape features (sidewalks, driveways, trees) disturbed during construction. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. • No easement required. • Existing Trunk Sewer will require decommissioning.	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Expanded construction footprint and disruption to Victoria Crescent residents, visitors of the Irvine Promenade Trail and Victoria Park over an extended construction period.	-2	-0.67
	• Impacts on land use and traffic	2	0.22	• Temporary significant inconvenience to residents and the community due to disruption to Victoria Crescent traffic, Victoria Park, and Irvine Promenade Trail. Construction activities associated with the implementation of this alternative is significant due to physical size (footprint) of the project.	-2	-0.44
Total Impacts on Social Environment <sup>(4)</sup>						-2.00
Ranking of Alternative within Social Environment <sup>(6)</sup>						4
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Low to Moderate impact to trees and vegetation in Victoria Park and Irvine Promenade Trail. • Impacts to trees/vegetation beneath new outlet are expected. • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 4A would result in the removal of 24 trees out of a total of 68 existing trees located along a 10 m corridor encompassing the proposed sewer alignment through Victoria Park (all of the existing trees are located on municipal property). Removal of 19 trees through the assessed corridor are a direct result of disturbance from construction activities and 5 trees are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 68 existing trees located along the assessed corridor in Victoria Park, 6 are classified as having a dominant crown, 10 are co-dominant, 36 are intermediate, and 16 are suppressed/overtopped. Of the 5 trees that are recommended for removal due to poor/very poor/dead condition, 1 is classified as having a co-dominant crown, 1 is classified as having an intermediate crown, and 3 have suppressed crowns. Of the 19 trees that would require removal due to construction, 2 are classified as having a dominant crown, 1 is classified as having a co-dominant crown, 11 as having an intermediate crown, and 5 as having suppressed crowns. • None to limited impact to trees is anticipated for the section of sewer alignment that is proposed along Victoria Crescent within the municipal road right-of-way between the existing trunk sewer location and the proposed alignment though Victoria Park. **NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-2	-0.57
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential for moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-2	-0.57
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The Trunk Sewer will be installed deeper below grade, therefore allowing the opportunity to make improvements to the upstream storm sewer network.	2	0.43
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(4)</sup>						-0.29
Ranking of Alternative Within Natural Environment <sup>(6)</sup>						3
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement	4	0.17	• Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.	2	0.33
	• Design considerations	3	0.13	• The overall length of Trunk Sewer will increase and as a result, the design of an extensive rock excavation will be required to achieve the appropriate grade/fall from the current upstream storm sewer junction to the new outlet at Irvine Creek. • Design will be constrained by the location of existing utilities. • Long design process due to initial anticipated studies required, stakeholder involvement, and initial anticipated approvals required.	-2	-0.25
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Potential conflicts with watermain, sanitary sewer and utilities along Victoria Crescent and Victoria Park. • Construction activities will require phasing to minimize impacts to the public and reduce traffic management requirements.	-2	-0.25
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), delineation of woodland dripline, evaluation and significance of the woodland, Fish Habitat Assessment and Fish Community Survey, Thermal Impact Assessment (also includes post-construction monitoring requirements), slope stability assessment and geotechnical investigation, impact assessment on natural heritage features, and recommendations for compensation and mitigation.	-2	-0.33
	• Initial anticipated approvals	4	0.17	• DFO • Township and County to alter lands zoned as Core Greenlands within the Official Plan • GRCA for work within a Regulated Area • MECP ECA • MNRF	-2	-0.33
	• Maintenance/access considerations	3	0.13	• Provides accessible outlet for maintenance.	2	0.25
Total Impacts on Technical Environment <sup>(4)</sup>						-0.46
Ranking of Alternative Within Technical Environment <sup>(6)</sup>						3
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Considerable rock excavation is expected. • Physical infrastructure required is increased. • Several technical studies and permits/approvals are anticipated. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. A new outlet to Irvine Creek is required. • Large construction footprint that will require restoration to match or exceed existing conditions. • Moderate potential for project cost escalation (i.e. unexpected subsurface conditions, equipment requirements, etc.). • Estimated \$715,000	-2	-1.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future. • Increased costs associated with monitoring establishment of vegetation following site restoration.	1	0.50
Total Impacts on Economical Environment <sup>(4)</sup>						-0.50
Ranking of Alternative within Economical Environment <sup>(6)</sup>						3
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>						-5.24
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>						4



# ANALYSIS/EVALUATION OF ALTERNATIVES

				ALTERNATIVE 4B		
CRITERIA		Criteria Significance <sup>(1)</sup>	Normalized Weighting of Criteria	New Storm Outlet on New Alignment Routed Along Smith St. and Henderson St. and Through Victoria Park, Including the Installation of a New Outlet Structure Through the Bank of Irvine Creek	Performance Marking <sup>(3)</sup>	Impacts <sup>(4)</sup>
CULTURAL HERITAGE ENVIRONMENT						
• Archaeological Resources • Built Heritage Resources and Cultural Heritage Resources	• Impacts to archaeological resources and areas of archaeological potential • Potential impacts to known or potential built heritage resources and Cultural Heritage Landscapes	3	1.00	• A Stage 1 archaeological assessment is necessary to determine the archaeological potential; however, given the archaeological sensitivity of the area, it is assumed that further archaeological assessment (Stage 2) will be required. • Installation of a new outlet through the side of the Elora Gorge will impact the cultural heritage landscape.	-2	-2.00
Total Impacts on Cultural Heritage Environment <sup>(4)</sup>						-2.00
Ranking of Alternative Within Cultural Heritage Environment <sup>(6)</sup>						2
SOCIAL ENVIRONMENT						
• Duration of construction activities expected to be 4 months and directly affect approximately 23 private properties.						
Land Use	• Impacts on private property	4	0.44	• Access to private properties interrupted temporarily during construction period. • Private property landscape features (sidewalks, driveways, trees) disturbed during construction. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. • No easement required. • Existing Trunk Sewer will require decommissioning.	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Expanded construction footprint and disruption to Victoria Crescent, Smith St., and Henderson St. residents and visitors of the Irvine Promenade Trail and Victoria Park over an extended construction period.	-2	-0.67
	• Impacts on land use and traffic	2	0.22	• Temporary significant inconvenience to residents and the community due to disruption to Victoria Crescent, Smith St. and Henderson St. traffic, Victoria Park, and Irvine Promenade Trail. The expected duration of construction activities associated with implementation of this alternative is the longest of all of the alternatives being considered due to the physical footprint of the project.	-2	-0.44
Total Impacts on Social Environment <sup>(4)</sup>						-2.00
Ranking of Alternative within Social Environment <sup>(6)</sup>						4
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Low to Moderate impact to trees and vegetation in Victoria Park and Irvine Promenade Trail. • Impacts to trees/vegetation beneath new outlet are expected. • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 4A would result in the removal of 24 trees out of a total of 68 existing trees located along a 10 m corridor encompassing the proposed sewer alignment through Victoria Park (all of the existing trees are located on municipal property). Removal of 19 trees through the assessed corridor are a direct result of disturbance from construction activities and 5 trees are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 68 existing trees located along the assessed corridor in Victoria Park, 6 are classified as having a dominant crown, 10 are co-dominant, 36 are intermediate, and 16 are suppressed/overtopped. Of the 5 trees that are recommended for removal due to poor/very poor/dead condition, 1 is classified as having a co-dominant crown, 1 is classified as having an intermediate crown, and 3 have suppressed crowns. Of the 19 trees that would require removal due to construction, 2 are classified as having a dominant crown, 1 is classified as having a co-dominant crown, 11 as having an intermediate crown, and 5 as having suppressed crowns. • None to limited impact to trees is anticipated for the section of sewer alignment that is proposed along Victoria Crescent within the municipal road right-of-way between the existing trunk sewer location and the proposed alignment though Victoria Park. **NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a supressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-2	-0.57
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential for moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-2	-0.57
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The Trunk Sewer will be installed deeper below grade, therefore allowing the opportunity to make improvements to the upstream storm sewer network.	2	0.43
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(4)</sup>						-0.29
Ranking of Alternative Within Natural Environment <sup>(6)</sup>						3
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement • Design considerations	4 3	0.17 0.13	• Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.  • The overall length of Trunk Sewer will increase and as a result, the design of an extensive rock excavation will be required to achieve the appropriate grade/fall from the current upstream storm sewer junction to the new outlet at Irvine Creek. • Design will be constrained by the location of existing utilities. • Long design process due to initial anticipated studies required, stakeholder involvement, and initial anticipated approvals required.	2 -2	0.33 -0.25
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Anticipated conflicts with watermain, sanitary sewer and utilities along Victoria Crescent, Smith St, and Henderson St. • Construction activities will require phasing to minimize impacts to the public and reduce traffic management requirements.	-2	-0.25
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), delineation of woodland dripline, evaluation and significance of the woodland, Fish Habitat Assessment and Fish Community Survey, Thermal Impact Assessment (also includes post-construction monitoring requirements), slope stability assessment and geotechnical investigation, impact assessment on natural heritage features, and recommendations for compensation and mitigation	-2	-0.33
	• Initial anticipated approvals	4	0.17	• DFO • Township and County to alter lands zoned as Core Greenlands within the Official Plan • GRCA for work within a Regulated Area • MECP ECA • MNRF	-2	-0.33
	• Maintenance/access considerations	3	0.13	• Provides accessible outlet for maintenance.	2	0.25
Total Impacts on Technical Environment <sup>(4)</sup>						-0.46
Ranking of Alternative Within Technical Environment <sup>(6)</sup>						3
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Considerable rock excavation is expected. • Physical infrastructure required is significantly increased. • Several technical studies and permits/approvals are anticipated. • A new outlet to Irvine Creek is required. • Largest construction footprint that will require restoration to match or exceed existing conditions. • Additional effort required to remove existing storm sewers on Smith St. and Henderson St. • Moderate/high potential for project cost escalation (i.e. unexpected subsurface conditions, equipment requirements, etc.). • Estimated \$975,000	-2	-1.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future. • Increased costs associated with monitoring establishment of vegetation following site restoration.	1	0.50
Total Impacts on Economical Environment <sup>(4)</sup>						-0.50
Ranking of Alternative within Economical Environment <sup>(6)</sup>						3
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>						-5.24
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>						4



## **Appendix J**

### **Notice of Commencement Documentation**





## THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON

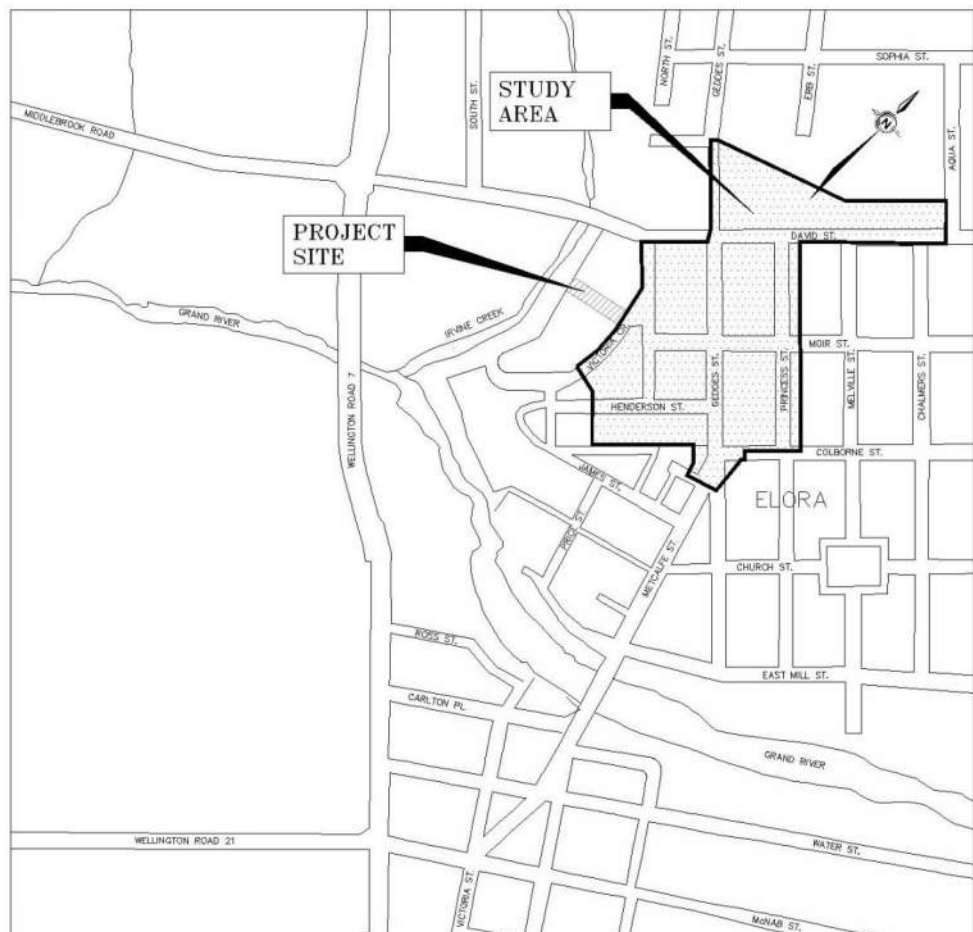
### MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT REPLACEMENT OF TRUNK STORM SEWER VICTORIA CRESCENT, ELORA

## PUBLIC COMMENT INVITED

The Township of Centre Wellington (Township) is planning the replacement of Storm Outlet to the Irvine Creek in the former village of Elora located on Municipal Streets and upstream of Victoria Crescent and private land west of Victoria Crescent. The storm sewer has been problematic because of insufficient cover and the overall condition of the aging pipe. This project will consider options and the preferred alternative to address the deterioration of the structure.

#### The Process:

This project is being planned in accordance with the requirements of a Schedule "B" study under the "Municipal Class Environmental Assessment" (Municipal Engineers Association, June 2000 as amended in 2007 & 2011) which is an approved process under the Ontario Environmental Assessment Act. The Class Environmental Assessment process includes public and agency consultation, an evaluation of alternatives, an assessment of potential environmental effects, and identification of reasonable measures to mitigate any adverse impacts that may result.





## **How to Participate:**

Public and agency consultation is a key component of this project. A Public Information Centre regarding this project is planned for the fall of 2016. This Public Information Centre will provide the public and agencies the opportunity to review alternatives considered and to discuss any questions or concerns relating to this project with the Project Team. The Project Team is comprised of the Township staff and Triton Engineering.

## **We Want to Hear From You!**

If you have any questions, comments, or wish to be added to the project contact list to receive future notices and project updates, please contact the following Project Team members:

Colin Baker, P.Eng.  
Managing Director of Infrastructure Services  
Township of Centre Wellington  
7444 Wellington Road 21  
Elora, ON N0B 1S0  
T (519) 846-9691 ext. 357  
E [cbaker@centrewellington.ca](mailto:cbaker@centrewellington.ca)

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
T (519) 843-3920  
E [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

Under the *Municipal Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated, with the exception of personal information, all comments will become part of the public record and will be released, if requested, to any person. Comments and information received will be maintained on file for use during the project and may be included in project documentation.

Project updates will be posted on the Township's website under the following link <http://www.centrewellington.ca/livehere/Pages/Environment/Environmental-Assessments.aspx>

This Notice first issued June 17, 2016.



June 15, 2016

Township of Centre Wellington  
Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
Class Environmental Assessment  
Contact List

M6186A

Agency/Resident	Contact Information	Notes	Mail Out or Email
<b>Natural Resource Canada</b> Office of Environmental Affairs 580 Booth Street, 11 <sup>th</sup> Floor <b>OTTAWA</b> , Ontario K1A 0E4	Angelique Magee Senior Environmental Assessment Officer <a href="mailto:Angelique.magee@nrcan.gc.ca">Angelique.magee@nrcan.gc.ca</a>		
<b>Ministry of Environment and Climate Change</b> Environmental Assessment and Approvals Branch (EAAB) 135 St. Clair Avenue West, 1 <sup>st</sup> Floor <b>TORONTO</b> , Ontario M4V 1P5	Director, Class EA's and Declaration Section	Email "notice of completion" to <b>MEA.Notices.EAAB@ontario.ca</b>	
<b>Ministry of Environment and Climate Change</b> Hamilton Regional Office 12 <sup>th</sup> Floor, 119 King Street West <b>HAMILTON</b> , Ontario L8P 4Y7	Ms. Barbara Slattery EA/Planning Co-Ordinator <a href="mailto:barbara.slattery@ontario.ca">barbara.slattery@ontario.ca</a>  Mark Smithson Supervisor, West Central Region <a href="mailto:mark.smithson@ontario.ca">mark.smithson@ontario.ca</a>		
<b>Ministry of Environment and Climate Change</b> Guelph District Office 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	Senior Environmental Officer		
<b>Ministry of Natural Resources</b> 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	David Marriott District Planner -Guelph District <a href="mailto:David.marriott@ontario.ca">David.marriott@ontario.ca</a>		



<b>Ministry of Tourism, Culture and Sport</b> Culture Services Unit Programs and Services Branch Culture Division 400 Bay Street, Suite 1700 <b>TORONTO</b> , Ontario M7A 0A7	Attention: Heritage Planning <a href="mailto:Heritage.Planning@ontario.ca">Heritage.Planning@ontario.ca</a>		
<b>Ministry of Municipal Affairs and Housing</b> Western Municipal Services Office 659 Exeter Road, 2 <sup>nd</sup> Floor <b>LONDON</b> , Ontario N6E 1L3	Scott Oliver – Acting Manager Community Planning and Development <a href="mailto:scott.oliver@ontario.ca">scott.oliver@ontario.ca</a>	1-800-265-4736	
<b>Ministry of Economic Development, Employment and Infrastructure</b> 8 <sup>th</sup> Floor Hearst Block 900 Bay Street <b>TORONTO</b> , Ontario M7A 2E1	Honorable Brad Duguid Minister of Economic Development , Employment and Infrastructure		
<b>Fisheries and Oceans Canada</b> Burlington District Office 867 Lakeshore Road <b>BURLINGTON</b> , Ontario L7R 4A6	Regional Environmental Assessment Analyst		
<b>Transport Canada – Navigable Waters</b> 100 Front Street South <b>SARNIA</b> , ON N7T 2M4	Barry Putt Special Advisor NPP	519-383-1862	
<b>Grand River Conservation Authority</b> 400 Clyde Road Box 729 <b>CAMBRIDGE</b> , Ontario N1R 5W6	Fred Natolochny <a href="mailto:fnatolochny@grandriver.ca">fnatolochny@grandriver.ca</a>  Nathan Garland <a href="mailto:ngarland@grandriver.ca">ngarland@grandriver.ca</a>		
<b>Ministry of Aboriginal Affairs</b> 160 Bloor Street East, 9 <sup>th</sup> Floor <b>TORONTO</b> , Ontario M7A 2E6	Manager, Consultation Unit Aboriginal Relations and Ministry Partnership Division		



<b>Six Nations of the Grand River Territory</b> 1695 Chiefswood Road P.O. Box 5000 <b>OHSWEKEN</b> , Ontario N0A 1M0	Chief G. Ava Hill	(519) 445-2201	
<b>Haudenosaunee Confederacy Chiefs Council</b> <b>c/o Haudenosaunee Development Institute</b> P.O. Box 714 <b>OHSWEKEN</b> , Ontario N0A 1M0		(519) 755-2769	
<b>Mississaugas of the New Credit First Nation</b> 2789 Mississauga Rd, R.R. #6 <b>HAGERSVILLE</b> , Ontario N0A 1H0	Chief R. Stacey LaForme Stacey.laforme@newcreditfirstnation.com	905-768-1133	
<b>Indigenous and Northern Affairs Canada</b> 1310-10 Wellington Street <b>GATINEAU</b> , Quebec K1A 0H4	Ms. Janet Townson, Claims Analyst, Specific Claims Branch	(819) 953-4667 Fax: 819-953-4224	
<b>Indigenous and Northern Affairs Canada</b> 10 Wellington Street <b>GATINEAU</b> , Quebec K1A 0H4	Mr. Sean Darcy, Manager , Assessment and Historical Research	(819) 997-8155 Fax: 819-953-1366	
<b>Heritage Centre Wellington</b> 1 MacDonald Square <b>ELORA</b> , Ontario N0B 1S0	c/o Mariana Iglesias Planner		
<b>Bell Aliant</b> 21 First Avenue <b>ORANGEVILLE</b> , Ontario L9W 1H7	Franklin Brown Franklin.brown@bell.ca		
<b>Cogeco Cable Inc.</b> 950 Syscon Road, Box 5076, Stn LCD 1 <b>BURLINGTON</b> , Ontario L7R 4S6	Jenn McLean Project Planner Jenn.mclean@cogeco.com		



<b>Union Gas Limited</b> 603 Kumpf Drive P.O. Box 340 <b>WATERLOO, ON</b> N2J 4A4	Kevin Schimus kschimus@uniongas.com		
<b>Centre Wellington Hydro</b> 730 Gartshore Street, P.O. Box 217 <b>FERGUS, Ontario</b> N1M 2W8	Carm Stefanelli cstefanelli@cwhydro.ca		
<b>Wightman Telecom</b> 100 Elora Street North, P.O. Box 70 <b>CLIFFORD, Ontario</b> N0G 1M0	Paul Rhody Manager, Access Network Design prhody@wightman.ca		
<b>Elora BIA</b> <del>9 East Mill Street</del> <del>ELORA, Ontario</del> <del>N0B 1S0</del> P.O. Box 2903 ELORA, Ontario N0B 1S0	elorabia@wightman.ca	Letter returned ?? wrong address. Emailed June 24/16.  Received email response June 25/16 with correct mailing address.	
190 Victoria Crescent <b>ELORA, Ontario</b> N0B 1S0			
200 Victoria Crescent <b>ELORA, Ontario</b> N0B 1S0			



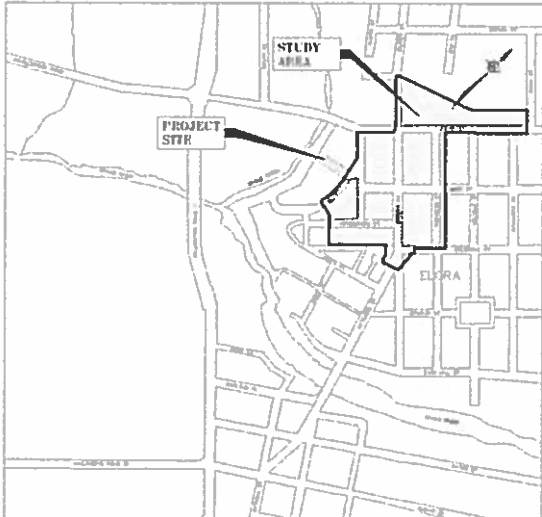


**THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON  
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT  
REPLACEMENT OF TRUNK STORM SEWER  
VICTORIA CRESCENT, ELORA  
PUBLIC COMMENT INVITED**

The Township of Centre Wellington (Township) is planning the replacement of Storm Outlet to the Irvine Creek in the former village of Elora located on Municipal Streets and upstream of Victoria Crescent and private land west of Victoria Crescent. The storm sewer has been problematic because of insufficient cover and the overall condition of the aging pipe. This project will consider options and the preferred alternative to address the deterioration of the structure.

**The Process:**

This project is being planned in accordance with the requirements of a Schedule "B" study under the "Municipal Class Environmental Assessment" (Municipal Engineers Association, June 2000 as amended in 2007 & 2011) which is an approved process under the Ontario Environmental Assessment Act. The Class Environmental Assessment process includes public and agency consultation, an evaluation of alternatives, an assessment of potential environmental effects, and identification of reasonable measures to mitigate any adverse impacts that may result.



**How to Participate:**

Public and agency consultation is a key component of this project. A Public Information Centre regarding this project is planned for the fall of 2016. This Public Information Centre will provide the public and agencies the opportunity to review alternatives considered and to discuss any questions or concerns relating to this project with the Project Team. The Project Team is comprised of the Township staff and Triton Engineering.

**We Want to Hear From You!**

If you have any questions, comments, or wish to be added to the project contact list to receive future notices and project updates, please contact the following Project Team members:

Colin Baker, P.Eng.  
Managing Director of Infrastructure Services  
Township of Centre Wellington  
7444 Wellington Road 21  
Elora, ON N0B 1S0  
T (519) 846-9691 ext. 357  
E [cbaker@centrewellington.ca](mailto:cbaker@centrewellington.ca)

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
T (519) 843-3920  
E [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

Under the *Municipal Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated, with the exception of personal information, all comments will become part of the public record and will be released, if requested, to any person. Comments and information received will be maintained on file for use during the project and may be included in project documentation.

Project updates will be posted on the Township's website under the following link <http://www.centrewellington.ca/livehere/Pages/Environment/Environmental-Assessments.aspx>

This Notice first issued June 17, 2016.

**PLEASE  
READ:**

We want to hear  
from you!

THIS IS EXACTLY HOW  
YOUR AD WILL APPEAR IN  
THE NEWSPAPER.

Please check to make sure that  
the information is correct.  
Mark any errors on this copy and  
email or fax back to  
(519) 843-7607

or call (519) 843-5410  
by TUESDAY NOON.

IF WE DO NOT HEAR  
FROM YOU, YOUR AD  
WILL BE PRINTED IN THE  
NEWSPAPER AS IT IS HERE.

**DEADLINES:**

Our deadlines for  
ad submission is  
MONDAY AT 3:00 P.M.

Our deadline for  
error corrections is  
TUESDAY AT NOON.

Please feel free to call  
us to discuss your ad.

Please sign your

**APPROVAL**

The  
Wellington  
Advertiser  
Fergus, Ont.

*Hutchison*

**NOTE:**

a \$50.00  
CANCELLATION FEE  
applies to any ads  
cancelled after  
MONDAY AT 5PM.

**PROOF OF YOUR AD**

for the June 17 & 24 issue.

3 columns x 9" - \$525.42 + HST per issue

PLEASE SEND BACK APPROVAL A.S.A.P.

Thank you,

Natalie McKay

- Production Dept.



FREE PRESS - NEWS WEEKLY  
**THE WELLINGTON ADVERTISER**





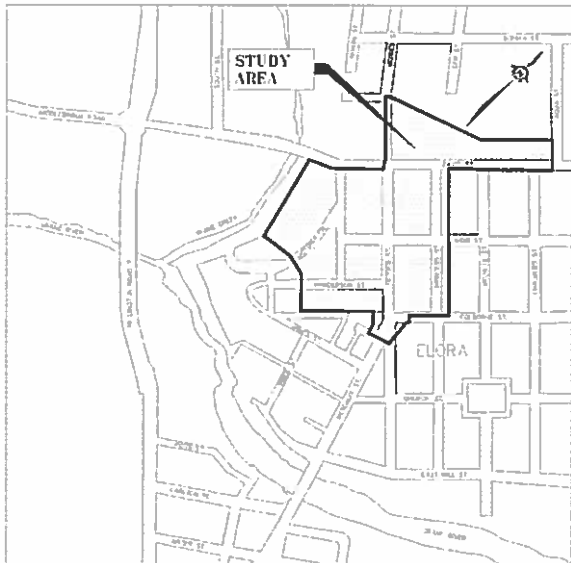
THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON  
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT  
REPLACEMENT OF TRUNK STORM SEWER  
VICTORIA CRESCENT, ELORA

**PUBLIC COMMENT INVITED**

The Township of Centre Wellington (Township) has initiated a Class Environmental Assessment (EA) to address the severe deterioration of stormwater infrastructure within the Study Area shown in the sketch below. Stormwater runoff from the study area discharges to the Irvine Creek in the vicinity of Victoria Crescent in Elora. The storm sewer has insufficient cover and the overall condition of the aging sewer is extremely poor. This Class EA will consider options and identify the preferred alternative to address the deterioration of the structure.

**The Process:**

This project is being planned in accordance with the requirements of a Schedule "B" study under the "Municipal Class Environmental Assessment" (Municipal Engineers Association, June 2000 as amended in 2007 & 2011) which is an approved process under the Ontario Environmental Assessment Act. The Class Environmental Assessment process includes public and agency consultation, an evaluation of alternatives, an assessment of potential environmental effects, and identification of reasonable measures to mitigate any adverse impacts that may result.



**How to Participate:**

Public and agency consultation is a key component of this project. A Public Information Centre regarding this project is planned for the fall of 2016. This Public Information Centre will provide the public and agencies the opportunity to review alternatives considered and to discuss any questions or concerns relating to this project with the Project Team.

**We Want to Hear From You!**

If you have any questions, comments, or wish to be added to the project contact list to receive future notices and project updates, please contact the following Project Team members:

Colin Baker, P.Eng.  
Managing Director of Infrastructure Services  
Township of Centre Wellington  
7444 Wellington Road 21  
Elora, ON N0B 1S0  
T (519) 846-9691 ext. 357  
E [cbaker@centrewellington.ca](mailto:cbaker@centrewellington.ca)

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
T (519) 843-3920  
E [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

Under the *Municipal Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated, with the exception of personal information, all comments will become part of the public record and will be released, if requested, to any person. Comments and information received will be maintained on file for use during the project and may be included in project documentation.

Project updates will be posted on the Township's website under the following link <http://www.centrewellington.ca/livehere/Pages/Environment/Environmental-Assessments.aspx>

This Notice first issued June 17, 2016.

**PLEASE READ:**

We want to hear from you!

THIS IS EXACTLY HOW YOUR AD WILL APPEAR IN THE NEWSPAPER.

Please check to make sure that the information is correct. Mark any errors on this copy and email or fax back to (519) 843-7607

or call (519) 843-5410 by TUESDAY NOON.

IF WE DO NOT HEAR FROM YOU, YOUR AD WILL BE PRINTED IN THE NEWSPAPER AS IT IS HERE.

**DEADLINES:**

Our deadlines for ad submission is MONDAY AT 3:00 P.M.

Our deadline for error corrections is TUESDAY AT NOON.

Please feel free to call us to discuss your ad.

Please sign your

**APPROVAL**

The  
Wellington  
Advertiser  
Fergus, Ont.

**NOTE:**

a \$50.00  
CANCELLATION FEE  
applies to any ads  
cancelled after  
MONDAY AT 5PM.

**PROOF OF YOUR AD**

for the June 24 issue.

3 columns x 9" - \$525.42 + HST per issue

PLEASE SEND BACK APPROVAL A.S.A.P.

Thank you,

Natalie McKay

- Production Dept.



FREE PRESS - NEWSWEEKLY  
**THE WELLINGTON ADVERTISER**



Ministry of the Environment  
and Climate Change  
West Central Region

119 King Street West  
12<sup>th</sup> Floor  
Hamilton, Ontario L8P 4Y7  
Tel.: 905 521-7640  
Fax: 905 521-7820

Ministère de l'Environnement  
et de l'Action en matière de changement climatique  
Direction régionale du Centre-Quest

119 rue King Quest  
12<sup>e</sup> étage  
Hamilton (Ontario) L8P 4Y7  
Tél. : 905 521-7640  
Téléc. : 905 521-7820



Ontario

M6186A  
BS142A  
→ DAY ✓  
→ PFA ✓

Direct Line: (905) 521-7864

July 5, 2016

**Re: Replacement of Trunk Storm Sewer – Victoria Crescent  
Elora, Centre Wellington  
MEA Class EA  
Response to Notice of Commencement**

This letter is our response to the Notice of Commencement for the above noted project. This response acknowledges that the Township of Centre Wellington has indicated that its study is following the requirements for Schedule "B" projects as per the MEA Class EA. It is understood that the purpose of this EA study is to determine the preferred means of address the severe deterioration of stormwater infrastructure within the study area. Thank you for the opportunity to comment on this project.

#### **Consultation with First Nation and Métis Communities**

Your proposed project may have the potential to affect Aboriginal communities who hold or claim Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. The Crown has a duty to consult First Nation and Métis communities when it knows about established or credibly asserted Aboriginal or treaty rights, and contemplates decisions or actions that may adversely affect them.

Although the Crown remains responsible for ensuring the adequacy of consultation with potentially affected Aboriginal communities, it may delegate procedural aspects of the consultation process to project proponents.

The environmental assessment process requires proponents to consult with interested persons and government agencies, including those potentially affected by the proposed project. This includes a responsibility to conduct adequate consultation with First Nation and Métis communities. The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process.

Where the Crown's duty to consult is triggered in relation to your proposed project, the Ontario Ministry of the Environment is delegating the procedural aspects of rights-based consultation to you through this letter.

Steps that you may need to take in relation to Aboriginal consultation for your proposed project are outlined in the attached "Aboriginal Consultation Information" document. Please complete the checklist contained there, and keep related notes as part of your



consultation record. Doing so will help you assess your project's potential adverse effects on Aboriginal or treaty rights.

You must contact the Director, Environmental Approvals Branch if you have reason to believe that your proposed project may **adversely affect an Aboriginal or treaty right, consultation has reached an impasse**, or if a Part II Order request is anticipated as a result of public response. The Ministry will then assess the extent of any Crown duty to consult in the circumstances, and will consider whether additional steps should be taken and what role you will be asked to play in them.

Given the ministry's role in approval of stormwater-related infrastructure, we are available for advice/input during the course of the EA study. Should you or any members of your project team have any questions regarding the material above, please contact me either at (905) 521-7864 or at [Barbara.slattery@ontario.ca](mailto:Barbara.slattery@ontario.ca)

Yours truly,

A handwritten signature in cursive script that reads "Barbara Slattery".

Barbara Slattery  
EA/Planning Coordinator

c.c. Manpreet Dhesi, GDO - MOECC

Attachment



## ABORIGINAL CONSULTATION INFORMATION

### *Consultation with Interested Persons under the Ontario Environmental Assessment Act*

Proponents subject to the Ontario *Environmental Assessment Act* are required to consult with interested persons, which may include First Nations and Métis communities. In some cases, special efforts may be required to ensure that Aboriginal communities are made aware of the project and are afforded opportunities to provide comments. Direction about how to consult with interested persons/communities is provided in the Code of Practice: Consultation in Ontario's Environmental Assessment Process available on the Ministry's website:

<https://www.ontario.ca/environment-and-energy/consultation-ontarios-environmental-assessment-process>

As an early part of the consultation process, proponents are required to contact the Ontario Ministry of Aboriginal Affairs' Consultation Unit and visit Aboriginal Affairs and Northern Development Canada's Aboriginal and Treaty Rights Information System (ATRIS) to help identify which First Nation and Métis communities may be interested in or potentially impacted by their proposed projects.

ATRIS can be accessed through the Aboriginal Affairs and Northern Development Canada website:

[http://sidait-atris.aadnc-aandc.gc.ca/atris\\_online/](http://sidait-atris.aadnc-aandc.gc.ca/atris_online/)

For more information in regard Aboriginal consultation as part of the Environmental Assessment process, refer to the Ministry's website:

[www.ontario.ca/government/environment-assessments-consulting-aboriginal-communities](http://www.ontario.ca/government/environment-assessments-consulting-aboriginal-communities)

You are advised to provide notification directly to all of the First Nation and Métis communities who may be interested in the project. You should contact First Nation communities through their Chief and Band Council, and Metis communities through their elected leadership.

### ***Rights-based consultation with First Nation and Métis Communities***

Proponents should note that, in addition to requiring interest-based consultation as described above, certain projects may have the potential to adversely affect the ability of First Nation or Métis communities to exercise their established or credibly asserted Aboriginal or treaty rights. In such cases, Ontario may have a duty to consult those Aboriginal communities.

Activities which may restrict or reduce access to unoccupied Crown lands, or which could result in a potential adverse impact to land or water resources in which harvesting rights are exercised, may have the potential to impact Aboriginal or treaty rights. For assistance in determining whether your proposed project could affect these rights, please refer to the attached "Preliminary Assessment Checklist: First Nation and Métis Community Interest."

If there is likely to be an adverse impact to Aboriginal or treaty rights, accommodation may be required to avoid or minimize the adverse impacts. Accommodation is an outcome of consultation and includes any mechanism used to avoid or minimize adverse impacts to Aboriginal or treaty rights and traditional uses. Solutions could include mitigation such as



adjustments in the timing or geographic location of the proposed activity. Accommodation may in certain circumstances involve the provision of financial compensation, but does not necessarily require it.

For more information about the duty to consult, please see the Ministry's website at:

[www.ontario.ca/government/duty-consult-aboriginal-peoples-ontario](http://www.ontario.ca/government/duty-consult-aboriginal-peoples-ontario)

The proponent must contact the Director, Environmental Approvals Branch if a project may adversely affect an Aboriginal or treaty right, consultation has reached an impasse, or if a Part II Order or an elevation request is anticipated; the Ministry will then determine whether the Crown has a duty to consult.

The Director of the Environmental Approvals Branch can be notified either by email with the subject line "Potential Duty to Consult" to [EAASIBGen@ontario.ca](mailto:EAASIBGen@ontario.ca) or by mail or fax at the address provided below:

<b>Email:</b>	<a href="mailto:EAASIBGen@ontario.ca">EAASIBGen@ontario.ca</a> Subject: Potential Duty to Consult
<b>Fax:</b>	416-314-8452
<b>Address:</b>	Environmental Approvals Branch 135 St. Clair Avenue West, 1 <sup>st</sup> Floor Toronto, ON, M4V 1P5

#### ***Delegation of Procedural Aspects of Consultation***

Proponents have an important and direct role in the consultation process, including a responsibility to conduct adequate consultation with First Nation and Métis communities as part of the environmental assessment process. This is laid out in existing environmental assessment codes of practice and guides that can be accessed from the Ministry's environmental assessment website at

[www.ontario.ca/environmentalassessments](http://www.ontario.ca/environmentalassessments)

The Ministry relies on consultation conducted by proponents when it assesses the Crown's obligations and directs proponents during the regulatory process. Where the Crown's duty to consult is triggered, various additional procedural steps may also be asked of proponents as part of their delegated duty to consult responsibilities. In some situations, the Crown may also become involved in consultation activities.

Ontario will have an oversight role as the consultation process unfolds but will be relying on the steps undertaken and information you obtain to ensure adequate consultation has taken place. To ensure that First Nation and Métis communities have the ability to assess a project's potential to adversely affect their Aboriginal or treaty rights, Ontario requires proponents to undertake certain procedural aspects of consultation.

The proponent's responsibilities for procedural aspects of consultation include:

- Providing notice to the elected leadership of the First Nation and/or Métis communities (e.g., First Nation Chief) as early as possible regarding the project;



- Providing First Nation and/or Métis communities with information about the proposed project including anticipated impacts, information on timelines and your environmental assessment process;
- Following up with First Nation and/or Métis communities to ensure they received project information and that they are aware of the opportunity to express comments and concerns about the project. If you are unable to make the appropriate contacts (e.g. are unable to contact the Chief) please contact the Environmental Assessment and Planning Coordinator at the Ministry's appropriate regional office for further direction.
- Providing First Nation and/or Métis communities with opportunities to meet with appropriate proponent representatives to discuss the project;
- Gathering information about how the project may adversely impact the relevant Aboriginal and/or Treaty rights (for example, hunting, fishing) or sites of cultural significance (for example, burial grounds, archaeological sites);
- Considering the comments and concerns provided by First Nation and/or Métis communities and providing responses;
- Where appropriate, discussing potential mitigation strategies with First Nation and/or Métis communities;
- Bearing the reasonable costs associated with these procedural aspects of consultation, which may include providing support to help build communities' capacity to participate in consultation about the proposed project.
- Maintaining a Consultation Record to show evidence that you, the proponent, completed all the steps itemized above or at a minimum made meaningful attempts to do so.
- Upon request, providing copies of the Consultation Record to the Ministry. The Consultation Record should:
  - summarize the nature of any comments and questions received from First Nation and/or Métis communities
  - describe your response to those comments and how their concerns were considered
  - include a communications log indicating the dates and times of all communications; and
  - document activities in relation to consultation.

Successful consultation depends, in part, on early engagement by proponents with First Nation and Métis communities. Information shared with communities must be clear, accurate and complete, and in plain language where possible. The consultation process must maintain sufficient flexibility to respond to new information, and we trust you will make all reasonable efforts to build positive relationships with all First Nation and Métis communities contacted. If you need more specific guidance on Aboriginal consultation steps in relation to your proposed project, or if you feel consultation has reached an impasse, please contact the Environmental Assessment and Planning Coordinator at the Ministry's appropriate regional office.



## Preliminary Assessment Checklist: First Nation and Métis Community Interests and Rights

In addition to other interests, some main concerns of First Nation and Métis communities may pertain to established or asserted rights to hunt, gather, trap, and fish – these activities generally occur on Crown land or water bodies. As such, projects related to Crown land or water bodies, or changes to how lands and water are accessed, may be of concern to Aboriginal communities.

Please answer the following questions and keep related notes as part of your consultation record. “Yes” responses will indicate a potential adverse impact on Aboriginal or treaty rights.

Where you have identified that your project may trigger rights-based consultation through the following questions, you should arrange for a meeting between you and the Environmental Assessment and Planning Coordinator at the Ministry's appropriate regional office to provide an early opportunity to confirm whether Ontario's duty to consult is triggered and to discuss roles and responsibilities in that event.

	YES	NO
<p>1. Are you aware of concerns from First Nation and Métis communities about your project or a similar project in the area?</p> <p>The types of concerns can range from interested inquiries to environmental complaints, and even to land use concerns. You should consider whether the interest represents on-going, acute and/or widespread concern.</p>		
2. Is your project occurring on Crown land, or is it close to a water body? Might it change access to either?		
3. Is the project located in an open or forested area where hunting or trapping could take place?		
4. Does the project involve the clearing of forested land?		
5. Is the project located away from developed, urban areas?		
<p>6. Is your project close to, or adjacent to, an existing reserve?</p> <p>Projects in areas near reserves may be of interest to the First Nation and Métis communities living there.</p>		
7. Will the project affect First Nations and/or Métis ability to access areas of significance to them?		
<p>8. Is the area subject to a land claim?</p> <p>Information about land claims filed in Ontario is available from the Ministry of Aboriginal Affairs; information about land claims filed with the federal government is available from Aboriginal Affairs and Northern Development Canada.</p>		
9. Does the project have the potential to impact any archaeological sites?		



## Preliminary Assessment Checklist: First Nation and Métis Community Interests and Rights

In addition to other interests, some main concerns of First Nation and Métis communities may pertain to established or asserted rights to hunt, gather, trap, and fish – these activities generally occur on Crown land or water bodies. As such, projects related to Crown land or water bodies, or changes to how lands and water are accessed, may be of concern to Aboriginal communities.

Please answer the following questions and keep related notes as part of your consultation record. “Yes” responses will indicate a potential adverse impact on Aboriginal or treaty rights.

Where you have identified that your project may trigger rights-based consultation through the following questions, you should arrange for a meeting between you and the Environmental Assessment and Planning Coordinator at the Ministry's appropriate regional office to provide an early opportunity to confirm whether Ontario's duty to consult is triggered and to discuss roles and responsibilities in that event.

	YES	NO
<p>1. Are you aware of concerns from First Nation and Métis communities about your project or a similar project in the area?</p> <p>The types of concerns can range from interested inquiries to environmental complaints, and even to land use concerns. You should consider whether the interest represents on-going, acute and/or widespread concern.</p>		✓
2. Is your project occurring on Crown land, or is it close to a water body? Might it change access to either?		✓
3. Is the project located in an open or forested area where hunting or trapping could take place?		✓
4. Does the project involve the clearing of forested land?		✓
5. Is the project located away from developed, urban areas?		✓
<p>6. Is your project close to, or adjacent to, an existing reserve?</p> <p>Projects in areas near reserves may be of interest to the First Nation and Métis communities living there.</p>		✓
7. Will the project affect First Nations and/or Métis ability to access areas of significance to them?		✓
<p>8. Is the area subject to a land claim?</p> <p>Information about land claims filed in Ontario is available from the Ministry of Aboriginal Affairs; information about land claims filed with the federal government is available from Aboriginal Affairs and Northern Development Canada. <i>Consulted <a href="https://www.ontario.ca/page/current-land-claims">https://www.ontario.ca/page/current-land-claims</a></i></p>		✓
9. Does the project have the potential to impact any archaeological sites?		✓



**Ministry of Tourism,  
Culture and Sport**

Heritage Program Unit  
Programs and Services Branch  
401 Bay Street, Suite 1700  
Toronto ON M7A 0A7  
Tel: 416 314 7145  
Fax: 416 212 1802

**Ministère du Tourisme,  
de la Culture et du Sport**

Unité des programmes patrimoine  
Direction des programmes et des services  
401, rue Bay, Bureau 1700  
Toronto ON M7A 0A7  
Tél: 416 314 7145  
Télec: 416 212 1802



July 14, 2016 (EMAIL ONLY)

Paul Zeigler  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
E: pziegler@tritoneng.on.ca

**RE: MTCS file #: 0005107**  
**Proponent: Township of Centre Wellington**  
**Subject: Notice of Commencement, Municipal Class Environmental Assessment**  
**Replacement of Trunk Storm Sewer, Victoria Crescent, Elora**  
**Location: Township of Centre Wellington, County of Wellington, Ontario**

---

Dear Paul Ziegler:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Notice of Commencement for your project. MTCS's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land-based and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources. While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Aboriginal communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Aboriginal communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

**Archaeological Resources**

Your EA project may impact archaeological resources and you should screen the project with the MTCS [Criteria for Evaluating Archaeological Potential](#) to determine if an archaeological assessment is needed. MTCS archaeological sites data are available at [archaeology@ontario.ca](mailto:archaeology@ontario.ca). If your EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *OHA*, who is responsible for submitting the report directly to MTCS for review.

**Built Heritage and Cultural Heritage Landscapes**

The MTCS [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether your EA project may impact cultural heritage resources. The Clerks for the Township of Centre Wellington and County of Wellington can provide information on property registered or designated under the *Ontario Heritage Act*. Municipal Heritage Planners can also provide information that will assist you in completing the checklist.



If potential or known heritage resources exist, MTCS recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's [Info Sheet #5: Heritage Impact Assessments and Conservation Plans](#) outlines the scope of HIAs. Please send the HIA to MTCS for review, and make it available to local organizations or individuals who have expressed interest in review.

### **Environmental Assessment Reporting**

All technical heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MTCS whether any technical heritage studies will be completed for your EA project, and provide them to MTCS before issuing a Notice of Completion. If your screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank-you for consulting MTCS on this project: please continue to do so through the EA process, and contact me for any questions or clarification.

Sincerely,

Joseph Muller, RPP/MCIP  
Heritage Planner  
Joseph.Muller@Ontario.ca

Copied to: Colin Baker, Managing Director of Infrastructure Service, Township of Centre Wellington

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately and the local police as well as the Cemeteries Regulation Unit of the Ministry of Government and Consumer Services must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.



**Paul Ziegler**

---

M6186A

→ DA4 ✓

**From:** Nathan Garland <ngarland@grandriver.ca>  
**Sent:** July-14-16 12:00 PM  
**To:** cbaker@centrewellington.ca; Paul Ziegler  
**Subject:** Victoria Crescent - Elora, Trunk Sewer  
**Attachments:** 3602\_001.pdf; Victoria Crescent , Elora.pdf

Hello Colin and Paul,

Please see that attached comments expressing interest in maintaining on the project notification list for the Victoria Crescent Class B – EA. Hard copies will be sent out via mail.

Please feel free to contact me should you have any questions.

Nathan Garland  
Resource Planner  
Grand River Conservation Authority

[ngarland@grandriver.ca](mailto:ngarland@grandriver.ca)  
Direct Line: 519.621.2763 x 2236  
Office: 1.866.900.4722  
Fax: 519.621.4945

**From:** [canonupstairs@grandriver.ca](mailto:canonupstairs@grandriver.ca) [<mailto:canonupstairs@grandriver.ca>]  
**Sent:** July 14, 2016 11:28 AM  
**To:** Nathan Garland  
**Subject:** Attached Image





400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6

Phone: 519.621.2761 Toll free: 866.900.4722 Fax: 519.621.4844 Online: [www.grandriver.ca](http://www.grandriver.ca)

July 14<sup>th</sup>, 2016

Colin Baker, P.Eng.  
Managing Director of Infrastructure  
Township of Centre Wellington  
7444 Wellington Road #21  
Elora, ON, N0B 1S0

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
14-105 Queen Street, West  
Fergus, ON, N1M 1S6

Dear Mr. Baker and Mr. Ziegler:

**Re: Township of Centre Wellington – Trunk Storm Sewer, Victoria Crescent, Elora  
Schedule B Class Environmental Assessment  
Notice of Study Commencement**

Thank-you for circulating our office on the notice of study commencement for the Victoria Crescent - Trunk Storm Sewer Class Environmental Assessment. We would request that our office remain notified of any information pertaining to the EA as it becomes available.

The study area contains natural hazard and natural heritage features including the Irvine Creek, and associated floodplain and allowances adjacent to the features. These features and their allowances are regulated under Ontario Regulation 150/06. Any future development within the regulated areas may require the issuance of a Development, Interference with Wetlands and Alterations to Shorelines and Watercourses permit from GRCA. A copy of our resource mapping is attached for your reference.

Should you have any questions or require any information, please contact the undersigned at 519-621-2763 ext. 2236.

Yours truly,

A handwritten signature in black ink, appearing to read "Nathan Garland".

Nathan Garland  
Resource Planner  
Grand River Conservation Authority

c.c.





Notes: Centre Wellington EA - Victoria Crescent - Elora

#### Legend

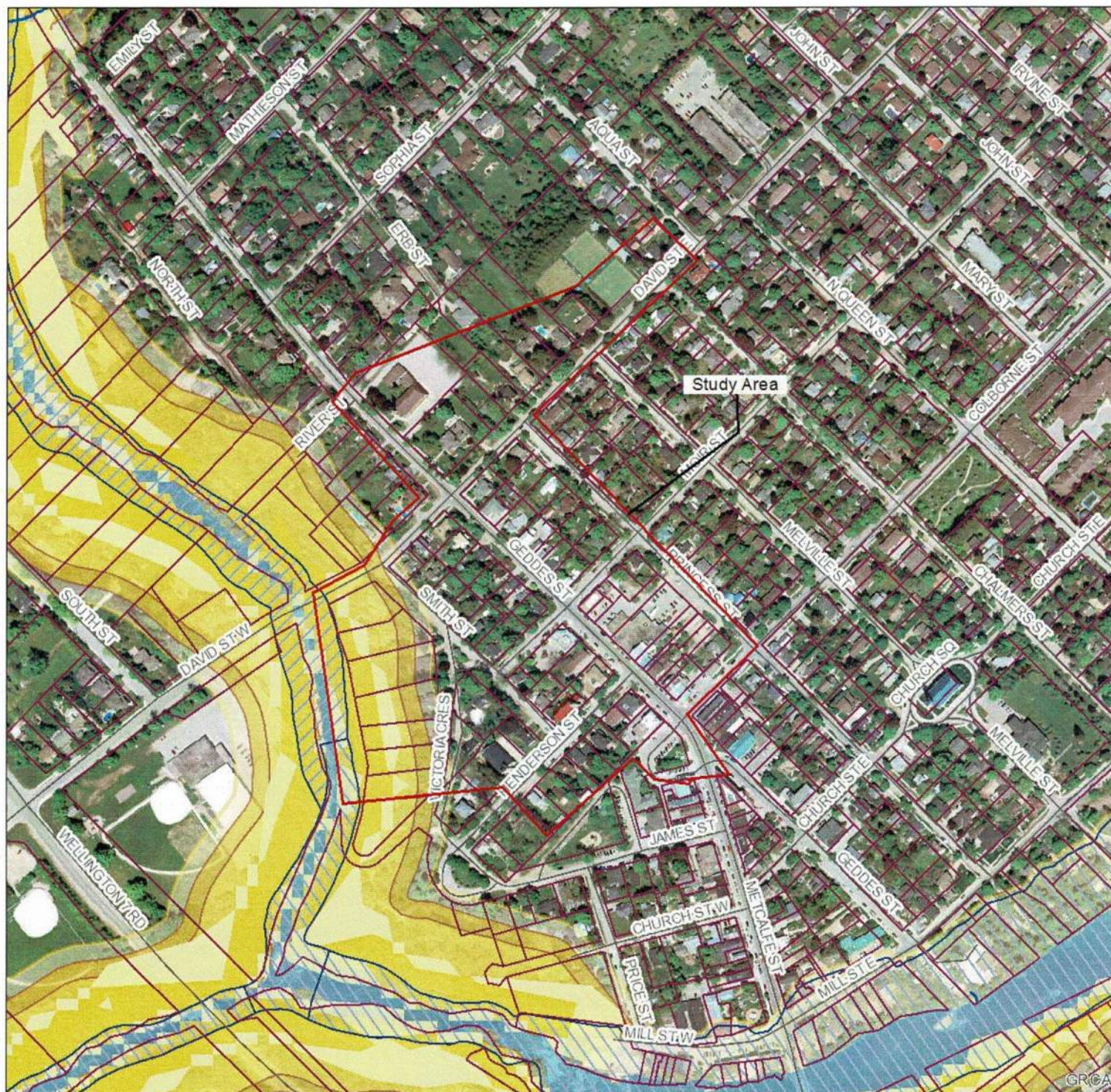
- Regulation Limit 2014 (GRCA)
- Drainage - Network (GRCA)
- Drainage - Polygons (GRCA)
- Wetland (GRCA)
- Wetland (MNRF)**
  - Provincially Significant
  - Locally Significant
  - Unevaluated
- Floodplain (GRCA)**
  - Engineered
  - Estimated
  - Approximate
  - Special Policy Area
- Slope Valley (GRCA)**
  - Steep
  - Oversteep
- Slope Erosion (GRCA)**
  - Steep
  - Oversteep
  - Toe
- Parcel - Assessment (MNRF/MPAC)
- Park (GRCA)
- Aquatic Resource - Line (MNRF)**
  - Cold Water
  - Cool Water
  - Warm Water
  - Unknown
- Utility Line (ON)
- Roads (ON)
- Railway (ON)

#### GRCA Disclaimer

This map is for illustrative purposes only. Information contained herein is not a substitute for professional review or a site survey and is subject to change without notice. The Grand River Conservation Authority takes no responsibility for, nor guarantees, the accuracy of the information contained on this map. Any interpretations or conclusions drawn from this map are the sole responsibility of the user.

The source for each data layer is shown in parentheses in the map legend. For a complete listing of sources and citations go to: <http://grims.grandriver.ca/docs/SourcesCitations1.htm>

0 30 60 120 180 Metres  
NAD 1983 UTM Zone 17N Scale: 5,000





## Lindsay Scott

---

**From:** Paul Ziegler  
**Sent:** Friday, August 5, 2016 10:59 AM  
**To:** Teresa Hutchison  
**Subject:** FW: Municipal Class EA for Replacement of Trunk Storm Sewer, Victoria Crescent, Elora: NEATS 42575

Teresa – Add to EA file M6186A? Victoria Terrace Storm Outlet.

Paul Ziegler, C.E.T.



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** EnviroOnt [mailto:EnviroOnt@tc.gc.ca]  
**Sent:** August-05-16 9:30 AM  
**To:** Paul Ziegler  
**Cc:** cbaker@centrewellington.ca  
**Subject:** Municipal Class EA for Replacement of Trunk Storm Sewer, Victoria Crescent, Elora: NEATS 42575

Hello,

Thank you for your correspondence.

Please note Transport Canada **does not** require receipt of all individual or Class EA related notifications. We are requesting project proponents to self-assess if their project will interact with a federal property **and** require approval and/or authorization under any Acts administered by Transport Canada\*.

Under the *Canadian Environmental Assessment Act, 2012*, Transport Canada is required to determine the likelihood of significant adverse environmental effects of projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project. The project proponent should review the Directory of Federal Real Property, available at <http://www.tbs-sct.gc.ca/dfpr-rbif/>, to verify if the project will potentially interact with any federal property and/or waterway. The project proponent should also review the list of Acts that Transport Canada administers and assists in administering that may apply to the project, available at: <https://www.tc.gc.ca/eng/acts-regulations/acts.htm>.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any correspondence. If there is a role under the program, correspondence should be forwarded *electronically* to: [EnviroOnt@tc.gc.ca](mailto:EnviroOnt@tc.gc.ca).

\*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- **Navigation Protection Act (NPA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across scheduled navigable waters set out under the Act. The Navigation Protection Program administers the NPA through the review and authorization of works affecting scheduled navigable waters.



## **Appendix K**

### **Public Information Centre and Related Correspondence**





## THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON

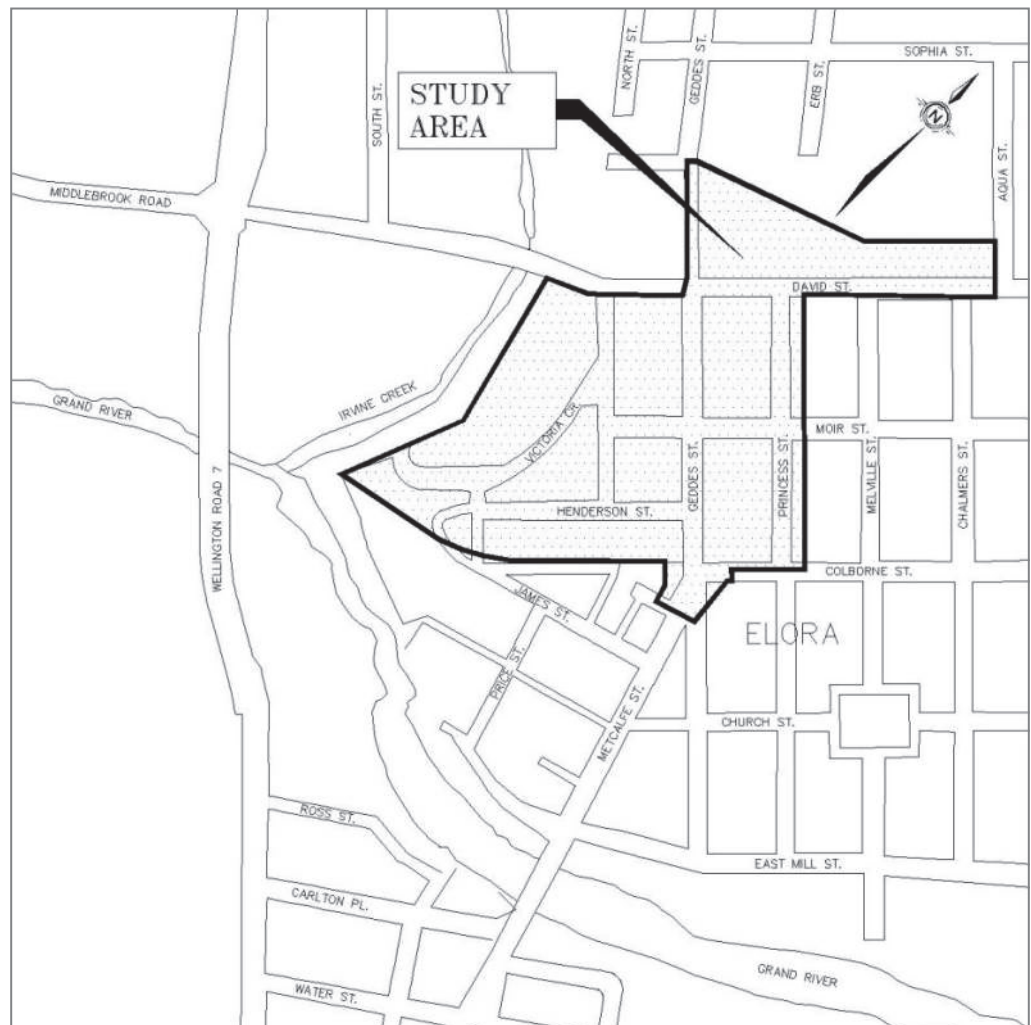
### MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT REPLACEMENT OF TRUNK STORM SEWER VICTORIA CRESCENT, ELORA

## NOTICE OF PUBLIC INFORMATION CENTRE

The Township of Centre Wellington (Township) is holding a Public Information Centre to review the alternatives to address severe deterioration of stormwater infrastructure within the Study Area shown in the sketch below. Stormwater runoff from the Study Area discharges to the Irvine Creek in the vicinity of Victoria Crescent in Elora. The storm sewer has insufficient cover and the overall condition of the aging sewer is extremely poor. This Class EA will consider options and identify the preferred alternative to address the deterioration of the structure.

#### The Process:

This project is being planned in accordance with the requirements of a Schedule "B" project under the "Municipal Class Environmental Assessment" (Municipal Engineers Association, June 2000 as amended in 2007, 2011 & 2015) which is an approved process under the Ontario Environmental Assessment Act. The Class Environmental Assessment process includes public and agency consultation, an evaluation of alternatives, an assessment of potential environmental effects, and identification of reasonable measures to mitigate any adverse impacts that may result.





**How to Participate:**

Public Information Centre is scheduled for:

**Wednesday, November 29th, 2017  
7:00 p.m. to 8:00 p.m.  
Elora Community Centre Hall  
21 David St W, Elora, ON N0B 1S0**

Public and agency input is a key component of this study. You are encouraged to attend the Public Information Centre and provide your comments so that they may be included in the EA. Comments received will be considered in finalizing the selection of the preferred alternative and identification of appropriate mitigation measures.

**For More Information:**

If you have any questions, comments, or wish to be added to the project contact list to receive future notices and project updates, please contact the following Project Team members:

Sarah Ash, B.Eng., M.A.Sc.  
Engineering Technologist-Water/Wastewater  
Township of Centre Wellington  
7444 Wellington Road 21  
Elora, ON N0B 1S0  
T (519) 846-9691 ext. 236  
E [sash@centrewellington.ca](mailto:sash@centrewellington.ca)

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
T (519) 843-3920  
E [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

Under the *Municipal Freedom of Information and Protection of Privacy Act* and the *Environmental Assessment Act*, unless otherwise stated, with the exception of personal information, all comments will become part of the public record and will be released, if requested, to any person. Comments and information received will be maintained on file for use during the project and may be included in project documentation.

Project updates will be posted on the Township's website under the following link <http://www.centrewellington.ca/livehere/Pages/Environment/Environmental-Assessments.aspx>

This Notice first issued November 16<sup>th</sup>, 2017.



Township of Centre Wellington  
 Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
 Municipal Class Environmental Assessment  
 Contact List

Agency/Resident	Contact Information	Notes	Mail Out or Email
<b>Natural Resource Canada</b> Office of Environmental Affairs 580 Booth Street, 11 <sup>th</sup> Floor <b>OTTAWA</b> , Ontario K1A 0E4	Angelique Magee Senior Environmental Assessment Officer <a href="mailto:Angelique.magee@nrcan.gc.ca">Angelique.magee@nrcan.gc.ca</a> Jennifer Dorr Senior Environmental Assessment Officer <a href="mailto:Jennifer.dorr@canada.ca">Jennifer.dorr@canada.ca</a>	Jennifer Dorr replaced Angelique Magee November 29, 2016	Mailed 11/17/17
<b>Ministry of Environment and Climate Change</b> Environmental Assessment and Approvals Branch (EAAB) 135 St. Clair Avenue West, 1 <sup>st</sup> Floor <b>TORONTO</b> , Ontario M4V 1P5	Director, Class EA's and Declaration Section	Email "notice of completion" to <b>MEA.Notices.EAAB@ontario.ca</b>	Mailed 11/17/17
<b>Ministry of Environment and Climate Change</b> Hamilton Regional Office 12 <sup>th</sup> Floor, 119 King Street West <b>HAMILTON</b> , Ontario L8P 4Y7	Ms. Barbara Slattery EA/Planning Co-Ordinator <a href="mailto:barbara.slattery@ontario.ca">barbara.slattery@ontario.ca</a>  Mark Smithson Supervisor, West Central Region <a href="mailto:mark.smithson@ontario.ca">mark.smithson@ontario.ca</a>		Mailed 11/17/17
<b>Ministry of Environment and Climate Change</b> Guelph District Office 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	Senior Environmental Officer		Mailed 11/17/17
<b>Ministry of Natural Resources and Forestry</b> 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	David Marriott District Planner -Guelph District <a href="mailto:David.marriott@ontario.ca">David.marriott@ontario.ca</a>		Mailed 11/17/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
<b>Ministry of Municipal Affairs and Housing</b> Western Municipal Services Office 659 Exeter Road, 2 <sup>nd</sup> Floor <b>LONDON</b> , Ontario N6E 1L3	Scott Oliver – Acting Manager Community Planning and Development <a href="mailto:scott.oliver@ontario.ca">scott.oliver@ontario.ca</a>	1-800-265-4736	Mailed 11/17/17
<b>Ministry of Economic Development and Growth Employment and Infrastructure</b> <del>8<sup>th</sup> Floor Hearst Block</del> <b>56 Wellesley Street West</b> <del>900 Bay Street</del> <b>7<sup>th</sup> Floor</b> <b>TORONTO</b> , Ontario <del>M7A 2E1</del> <b>M7A 2E7</b>	Honorable Brad Duguid Minister of Economic Development and <b>Growth</b> <del>Employment and Infrastructure</del>	<b>Address and Ministry checked and updated Nov/17</b>	Mailed 11/17/17
<b>Fisheries and Oceans Canada</b> Burlington District Office 867 Lakeshore Road <b>BURLINGTON</b> , Ontario L7R 4A6 <b>L7S 1A1</b>	Regional Environmental Assessment Analyst	<b>Address checked and updated Nov/17</b>	Mailed 11/17/17
<b>Transport Canada – Navigable Waters</b> 100 Front Street South <b>SARNIA</b> , ON N7T 2M4	Barry Putt Special Advisor NPP	519-383-1862	Mailed 11/17/17
<b>Grand River Conservation Authority</b> 400 Clyde Road Box 729 <b>CAMBRIDGE</b> , Ontario N1R 5W6	Fred Natolochny <a href="mailto:fnatolochny@grandriver.ca">fnatolochny@grandriver.ca</a>  Nathan Garland <a href="mailto:ngarland@grandriver.ca">ngarland@grandriver.ca</a>		Mailed 11/17/17
<b>Ministry of <del>Aboriginal Affairs</del> Indigenous Relations and Reconciliation</b> 160 Bloor Street East, 9 <sup>th</sup> Floor <b>TORONTO</b> , Ontario M7A 2E6	Manager, Consultation Unit <del>Aboriginal</del> <b>Indigenous</b> Relations and Ministry Partnership Division	<b>Ministry checked and updated Nov/17</b>	Mailed 11/17/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
<b>Six Nations of the Grand River Territory</b> 1695 Chiefswood Road P.O. Box 5000 <b>OHSWEKEN</b> , Ontario N0A 1M0	Chief G. Ava Hill	(519) 445-2201	Mailed 11/17/17
<b>Haudenosaunee Confederacy Chiefs Council</b> <b>c/o Haudenosaunee Development Institute</b> P.O. Box 714 <b>OHSWEKEN</b> , Ontario N0A 1M0		(519) 755-2769	Mailed 11/17/17
<b>Mississaugas of the New Credit First Nation</b> 2789 Mississauga Rd, R.R. #6 <b>HAGERSVILLE</b> , Ontario N0A 1H0	Chief R. Stacey LaForme Stacey.laforme@newcreditfirstnation.com	905-768-1133	Mailed 11/17/17
<b>Indigenous and Northern Affairs Canada</b> 10 Wellington Street <b>GATINEAU</b> , Quebec K1A 0H4	Ms. Janet Townson, Claims Analyst, Specific Claims Branch	Checked and contact names no longer on gov. contact list Nov/17	Mailed 11/17/17
<b>Indigenous and Northern Affairs Canada</b> 10 Wellington Street <b>GATINEAU</b> , Quebec K1A 0H4	<del>Mr. Sean Darcy,</del> Manager, Assessment and Historical Research	Checked and contact names no longer on gov. contact list Nov/17	Mailed 11/17/17
<b>Heritage Centre Wellington</b> 1 MacDonald Square <b>ELORA</b> , Ontario N0B 1S0	c/o Mariana Iglesias Planner		Mailed 11/17/17
<b>Bell Aliant</b> 21 First Avenue <b>ORANGEVILLE</b> , Ontario L9W 1H7	Franklin Brown <a href="mailto:Franklin.brown@bell.ca">Franklin.brown@bell.ca</a>		Mailed 11/17/17
<b>Cogeco Cable Inc.</b> 950 Syscon Road, Box 5076, Stn LCD 1 <b>BURLINGTON</b> , Ontario L7R 4S6	Jenn McLean Project Planner <a href="mailto:Jenn.mclean@cogeco.com">Jenn.mclean@cogeco.com</a>		Mailed 11/17/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
<b>Union Gas Limited</b> 603 Kumpf Drive P.O. Box 340 <b>WATERLOO</b> , ON N2J 4A4	Kevin Schimus <a href="mailto:kschimus@uniongas.com">kschimus@uniongas.com</a>		Mailed 11/17/17
<b>Centre Wellington Hydro</b> 730 Gartshore Street, P.O. Box 217 <b>FERGUS</b> , Ontario N1M 2W8	Carm Stefanelli <a href="mailto:cstefanelli@cwhydro.ca">cstefanelli@cwhydro.ca</a>		Mailed 11/17/17
<b>Wightman Telecom</b> 100 Elora Street North, P.O. Box 70 <b>CLIFFORD</b> , Ontario N0G 1M0	Paul Rhody Manager, Access Network Design <a href="mailto:prhody@wightman.ca">prhody@wightman.ca</a>		Mailed 11/17/17
<b>Elora BIA</b> 9 East Mill Street <b>ELORA</b> , Ontario <del>N0B 1S0</del> P.O. Box 2903 ELORA, Ontario N0B 1S0	<a href="mailto:elorabia@wightman.ca">elorabia@wightman.ca</a>		Mailed 11/17/17
190 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	[REDACTED]		Mailed 11/17/17
200 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	[REDACTED]		Mailed 11/17/17
7444 Wellington Road 21 <b>ELORA</b> , Ontario N0B 1S0	Kyle Davis Risk Management Official Wellington Source Water Protection <a href="mailto:kdavis@centrewellington.ca">kdavis@centrewellington.ca</a>	519-846-9691 x362	Added to list Nov/17  Mailed 11/17/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
400 Clyde Road, PO Box 729 <b>CAMBRIDGE</b> , ON N1R 5W6	Lake Erie Source Protection Region c/o Grand River Conservation Authority	519-621-2761	Added to list Nov/17  Mailed 11/17/17
210 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
180 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
176 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
170 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
169 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
179 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
200 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
217 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
211 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
209 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
201 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
197 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
181 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
176 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
36 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
39 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
35 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17



Agency/Resident	Contact Information	Notes	Mail Out or Email
33 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
29 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
25 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
17 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
107 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
108 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17
98 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Added to list Nov/17  Hand delivered 11/22/17





THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON  
**NOTICE OF PUBLIC INFORMATION CENTRE**  
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT  
REPLACEMENT OF TRUNK STORM SEWER  
VICTORIA CRESCENT, ELORA

The Township of Centre Wellington (Township) is holding a Public Information Centre to review the alternatives to address severe deterioration of stormwater infrastructure within the Study Area shown in the sketch below. Stormwater runoff from the Study Area discharges to the Irvine Creek in the vicinity of Victoria Crescent in Elora. The storm sewer has insufficient cover and the overall condition of the aging sewer is extremely poor. This Class EA will consider options and identify the preferred alternative to address the deterioration of the structure.

**The Process:** This project is being planned in accordance with the requirements of a Schedule "B" project under the "Municipal Class Environmental Assessment" (Municipal Engineers Association, June 2000 as amended in 2007, 2011 & 2015) which is an approved process under the Ontario Environmental Assessment Act. The Class Environmental Assessment process includes public and agency consultation, an evaluation of alternatives, an assessment of potential environmental effects, and identification of reasonable measures to mitigate any adverse impacts that may result.

**How to Participate:** Public Information Centre is scheduled for:

Wednesday, November 29th, 2017,  
7:00 p.m. to 8:00 p.m.  
Elora Community Centre Hall,  
21 David St W, Elora, ON N0B 1S0

Public and agency input is a key component of this study. You are encouraged to attend the Public Information Centre and provide your comments so that they may be included in the EA. Comments received will be considered in finalizing the selection of the preferred alternative and identification of appropriate mitigation measures.

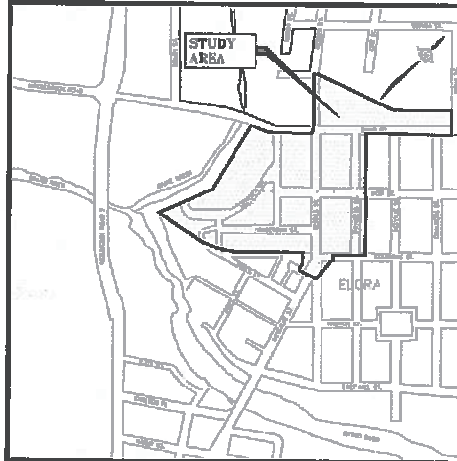
For more information, please contact either one of the project team members if you have any questions, comments or would like to be added to the project mailing list:

Sarah Ash, B.Eng., M.A.Sc.  
Engineering Technologist-Water/Wastewater  
Township of Centre Wellington  
7444 Wellington Road 21  
Elora, ON N0B 1S0  
T (519) 846-9691 ext. 236  
E [sash@centrewellington.ca](mailto:sash@centrewellington.ca)

Paul Ziegler, C.E.T.  
Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
T (519) 843-392  
E [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

Project updates will be posted on the Township's website under the following link <http://www.centrewellington.ca/values/Pass/Environment/Environmental-Assessments.aspx>.

This Notice first issued November 17th, 2017.



## PLEASE READ:

Please check to make sure that the information is correct. Mark any errors on this copy and email or fax back to (519) 843-7607 or call (519) 843-5410 by **TUESDAY NOON**.

**IF WE DO NOT HEAR FROM YOU, YOUR AD WILL BE PRINTED IN THE NEWSPAPER AS IT IS HERE.**

**DEADLINES:**  
Our deadlines for ad submission is **MONDAY AT 3:00 P.M.**  
Our deadline for error corrections is **TUESDAY AT NOON**.  
Please feel free to call us to discuss your ad.

Ads are designed for our publication ONLY.

We do not charge for design however if you would like a jpeg version of your ad for social media a nominal \$20 charge will apply.

The  
**Wellington Advertiser**  
Fergus, Ont.

Please sign your APPROVAL

## NOTE:

A CANCELLATION FEE OF

# \$50

applies to any ads cancelled after **MONDAY AT 5PM.**

**PROOF OF YOUR AD**  
for the November 17th & 24th issues.  
4 columns x 8" - \$672.00 + HST per issue

**PLEASE REPLY WITH YOUR APPROVAL  
AS SOON AS POSSIBLE.**

Thank you,  
Angela Brohman - Production Dept.





# THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON

CLASS ENVIRONMENTAL  
ASSESSMENT

## TRUNK STORM SEWER EVALUATION

VICTORIA CRESCENT  
ELORA

PUBLIC INFORMATION CENTRE





## **OPPORTUNITY STATEMENT**

**THE TOWNSHIP OF CENTRE WELLINGTON (TOWNSHIP) IS CONDUCTING A CLASS ENVIRONMENTAL ASSESSMENT (EA) TO ADDRESS THE SEVERE DETERIORATION OF STORMWATER INFRASTRUCTURE WITHIN THE FORMER VILLAGE OF ELORA. STORMWATER RUNOFF FROM THE STUDY AREA DISCHARGES TO THE IRVINE CREEK IN THE VICINITY OF VICTORIA CRESCENT IN ELORA.**

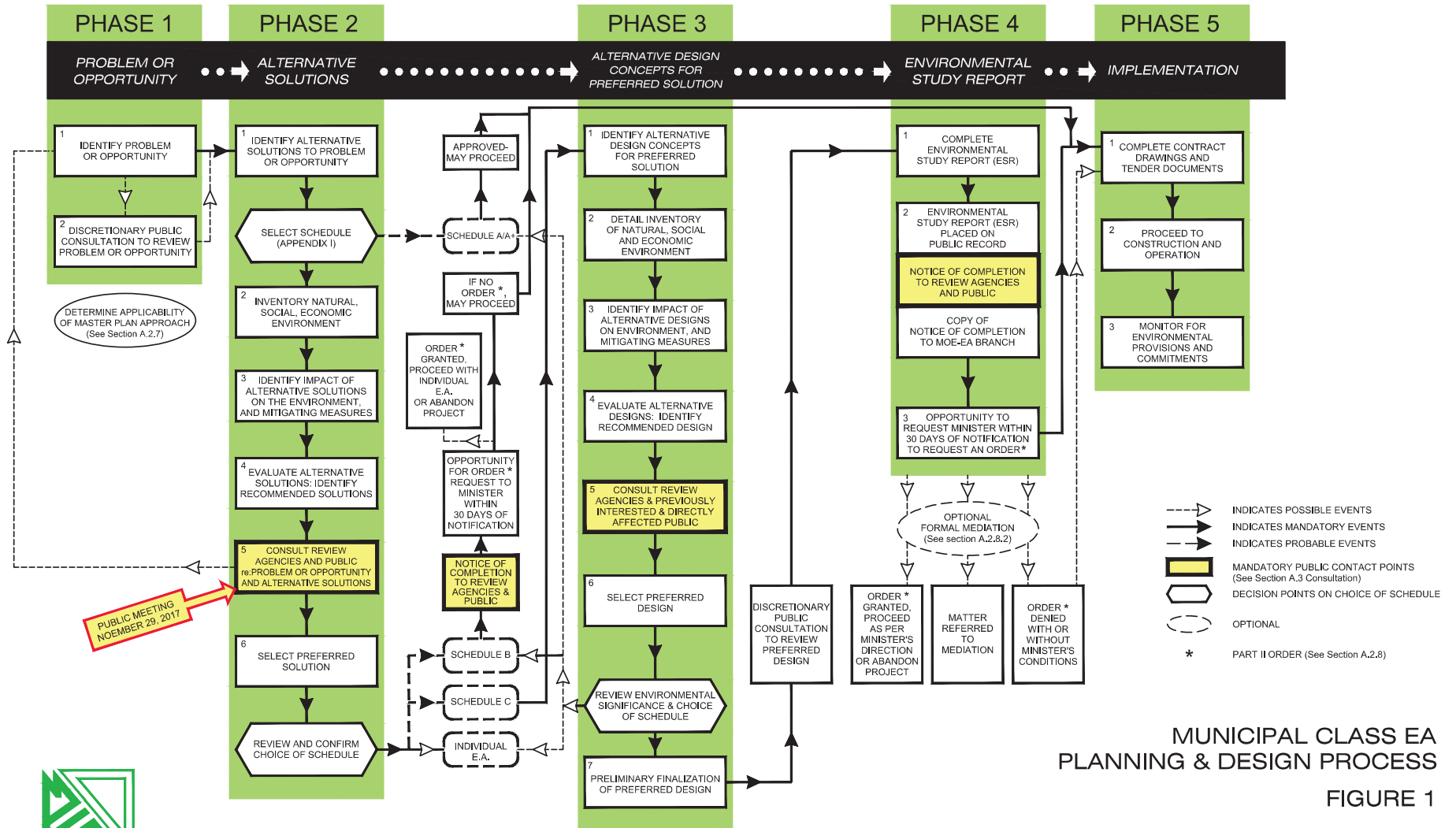
**THE STORM SEWER HAS INSUFFICIENT COVER AND THE OVERALL CONDITION OF THE AGING SEWER IS EXTREMELY POOR.**

**THIS CLASS EA STUDY WILL CONSIDER OPTIONS AND IDENTIFY THE PREFERRED ALTERNATIVE TO ADDRESS THE DETERIORATION OF THE STRUCTURE.**



# MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS

**NOTE:** This flow chart is to be read in conjunction with Part A of the Municipal Class EA



MUNICIPAL CLASS EA PLANNING & DESIGN PROCESS

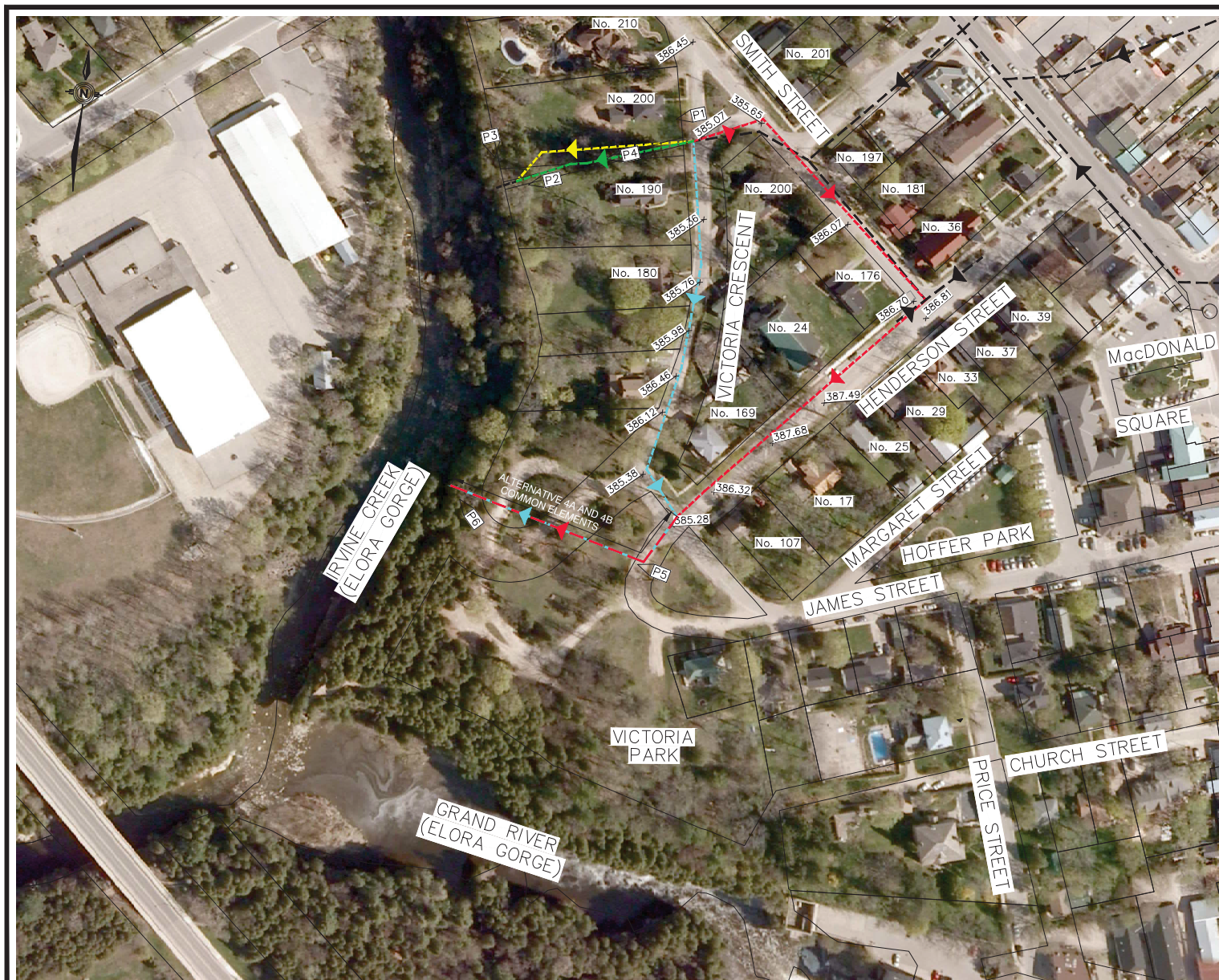
FIGURE 1



# **ALTERNATIVES**

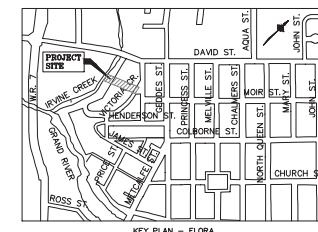
- |                         |   |
|-------------------------|---|
| <b>ALTERNATIVE 1 -</b>  | <b>Do Nothing</b>   |
| <b>ALTERNATIVE 2 -</b>  | <b>Replace Storm Sewer in Same Location</b>   |
| <b>ALTERNATIVE 3 -</b>  | <b>New Storm Outlet on New Alignment Along Southerly Limit of Property of No. 200 Victoria Crescent, Connecting to Existing Outlet Structure from No. 190 Victoria Crescent. Existing Trunk Sewer to be Decomissioned and Abandoned in Place.</b>   |
| <b>ALTERNATIVE 4A -</b> | <b>New Storm Outlet on New Alignment Along Victoria Crescent and Through Victoria Park, including the Installation of a New Outlet Structure through the Bank of the Irvine River. Existing Trunk Sewer and Outlet to be Decomissioned and Abandoned in Place.</b>                        |
| <b>ALTERNATIVE 4B -</b> | <b>New Storm Outlet on New Alignment Routed Along Smith Street and Henderson Street and Through Victoria Park, including the Installation of a New Outlet Structure through the Bank of the Irvine River. Existing Trunk Sewer and Outlet to be Decomissioned and Abandoned in Place.</b> |





# **TOWNSHIP OF CENTRE WELLINGTON**

## **TRUNK STORM SEWER EVALUATION VICTORIA CRESCENT (ELORA)**



- LEGEND:**
- APPROXIMATE PROPERTY LIMITS
  - EXISTING STORM SEWER
  - DIRECTION OF FLOW
  - ALTERNATIVE 2 TRUNK SEWER ALIGNMENT (REPLACE IN EXISTING LOCATION)
  - ALTERNATIVE 3 TRUNK SEWER ALIGNMENT
  - ALTERNATIVE 4A TRUNK SEWER ALIGNMENT
  - ALTERNATIVE 4B TRUNK SEWER ALIGNMENT
  - P1 PHOTO LOCATION
  - 380.78 EXIST. GROUND SURFACE ELEVATION (TESL SURVEY, 2017)

## **ALTERNATIVES 2, 3, 4A & 4B STORM SEWER ALIGNMENTS**

AUGUST 2017

1:750

M6186  
SK-01







**P1** August 2017. Existing conditions at 190 and 200 Victoria Crescent. Looking west.



**P2** June 2014. Existing trunk storm outlet to Irvine Creek. Looking west.



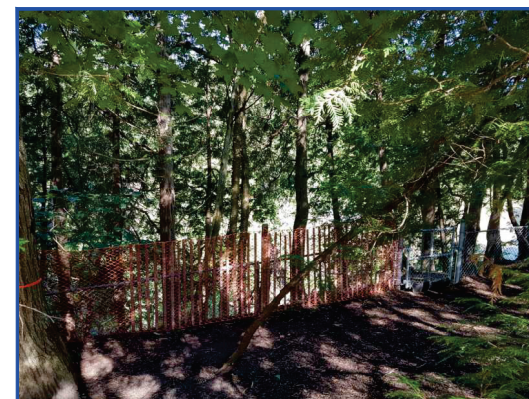
**P3** June 2014. Existing foot bridge on Irvine Promenade Trail, over existing trunk storm outlet structure. Looking south.



**P4** June 2006. Long horizontal cracks in existing trunk storm sewer.



**P5** August 2017. Existing Conditions of proposed trunk storm sewer alignment through Victoria Park. Looking northwest.



**P6** August 2017. Existing conditions of Irvine Promenade Trail at edge of Elora Gorge in Victoria Park at proposed location for new outlet structure (Alternatives 4A and 4B). Looking northwest.



# ANALYSIS/EVALUATION OF ALTERNATIVES

ALTERNATIVE 1						
CRITERIA		Criteria Significance (i)	Normalized Weighting of Criteria	"Do Nothing"	Performance Marking (ii)	Impacts (iii)
CULTURAL ENVIRONMENT						
Archaeology	Impacts to archaeological resources and cultural heritage landscapes	3	1.00	Archaeological assessment not immediately required.	0	0.00
Total Impacts on Cultural Environment (iv)						0.00
Ranking of Alternative Within Cultural Environment (iv)						1
SOCIAL ENVIRONMENT				No immediate construction activity expected.		
Land Use	Impacts on private property	4	0.44	No immediate impacts to natural features. Eventual failure of the existing structure could lead to erosion, flooding, and property damage. Currently no easement for the storm sewer across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.89
	Temporary construction impacts (access, noise, dust, etc.)	3	0.33	No immediate impacts.	0	0.00
	Impacts on land use and traffic	2	0.22	No traffic impacts.	0	0.00
Total Impacts on Social Environment (iv)						-0.89
Ranking of Alternative Within Social Environment (iv)						1
NATURAL ENVIRONMENT						
Trees and Vegetation	Impacts to trees and vegetation	4	0.29	Potential impact to trees and vegetation in the event of structural failure of the existing storm sewer.	-1	-0.29
Wildlife	Impacts to wildlife and species at risk	4	0.29	Potential impact to terrestrial habitat in the event of structural failure of the existing storm sewer.	-1	-0.29
Hydrology	Impacts to storm water management	3	0.21	The ability for this portion of the storm sewer to convey peak flows under existing and future growth conditions is limited given its current condition. Storm flow in excess of existing Trunk Sewer capacity will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. The elevation and grade of the existing Trunk Sewer will limit future design improvements to the upstream storm sewer network.	-2	-0.43
	Impacts to water quality	3	0.21	No opportunity to add water quality controls.	-1	-0.21
Total Impacts on Natural Environment (iv)						-1.21
Ranking of Alternative Within Natural Environment (iv)						4
TECHNICAL ENVIRONMENT						
Design/Function	Ability to address opportunity statement	4	0.17	Does not address the opportunity statement.	-2	-0.33
	Design considerations	3	0.13	No immediate impacts.	0	0.00
	Ability to meet current municipal design standards	3	0.13	Existing structure does not meet current municipal design standards for storm sewers.	0	0.00
	Staging, grading constraints, utility conflicts, traffic management	3	0.13	No immediate impacts.	0	0.00
	Initial anticipated studies	4	0.17	No immediate impacts.	0	0.00
	Initial anticipated approvals	4	0.17	No immediate impacts.	0	0.00
	Maintenance/access considerations	3	0.13	This portion of the storm sewer is located on private property, which imposes access issues for maintenance.	-2	-0.25
Total Impacts on Technical Environment (iv)						-0.58
Ranking of Alternative Within Technical Environment (iv)						4
ECONOMICAL ENVIRONMENT						
Costs	Capital costs	3	0.50	Capital works not immediately required; however, the Trunk Sewer will eventually require replacement, therefore, capital costs are only deferred. It is expected that deferred cost will be approximately \$190,000.	-1	-0.50
	Operation and maintenance costs	3	0.50	Highest expected operation and maintenance costs due to current condition of the Trunk Sewer.	-2	-1.00
Total Impacts on Economical Environment (iv)						-1.50
Ranking of Alternative within Economical Environment (iv)						4
TOTAL IMPACT ON ALL ENVIRONMENTS (v)						-4.19
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED (v)						3



# ANALYSIS/EVALUATION OF ALTERNATIVES

ALTERNATIVE 2						
CRITERIA		Criteria Significance (1)	Normalized Weighting of Criteria	Replace Storm Sewer in Same Location	Performance Marking (3)	Impacts (4)
CULTURAL ENVIRONMENT						
Archaeology	• Impacts to archaeological resources and cultural heritage landscapes	3	1.00	• A Stage 1 archaeological assessment has been completed. Prior to any construction, a Stage 2 archaeological assessment is required.	0	0.00
					Total Impacts on Cultural Environment (4)	0.00
					Ranking of Alternative Within Cultural Environment (6)	1
SOCIAL ENVIRONMENT						
				• Duration of construction activities estimated to be 6 weeks.		
Land Use	• Impacts on private property	4	0.44	• Aesthetics of private property temporarily impacted due to removal of mature trees and vegetation. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. • An easement for the new storm sewer alignment is required across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Disruptions to private property residents (especially house No. 190 and No. 200 Victoria Crescent) during construction phase.	-1	-0.33
	• Impacts on land use and traffic	2	0.22	• Minimal disruption to Victoria Crescent traffic expected during construction phase. • Temporary (relatively short duration) disruption to access to a portion of private properties (house No. 200 Victoria Crescent) during construction.	-1	-0.22
					Total Impacts on Social Environment (4)	-1.44
					Ranking of Alternative Within Social Environment (6)	3
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Moderate impact to trees and vegetation on private property (No. 190 and No. 200 Victoria Crescent). • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 2 would result in the removal of 25 trees out of a total of 52 existing trees along the property line between house No. 190 and No. 200 (47 of the trees are on private property and 5 are on municipal property). Removal of 18 trees are a direct result of disturbance from construction activities and 7 trees (all on private property) are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 52 existing trees, 10 are classified as having a dominant crown, 12 are co-dominant, 14 are intermediate, and 16 are suppressed/overtopped. Of the 7 trees (all on private property) that are recommended for removal due to poor/very poor/dead condition, 1 has a co-dominant crown class, 1 has an intermediate crown class, and 5 have suppressed crown classes. Of the 18 trees that would require removal due to construction, 8 are classified as having a dominant crown, 5 as having an intermediate crown, and 5 as having a suppressed crown. • *NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-2	-0.57
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential for low/moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-1	-0.29
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The elevation and grade of the Trunk Sewer is constrained by the elevation of the existing outlet, therefore limiting future design improvements to the upstream storm sewer network.	1	0.21
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
					Total Impacts on Natural Environment (4)	-0.21
					Ranking of Alternative Within Natural Environment (6)	2
TECHNICAL ENVIRONMENT						
Design/Function	• Ability to address opportunity statement	4	0.17	• Addresses opportunity statement.	2	0.33
	• Design considerations	3	0.13	• Limited impacts.	1	0.13
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Potential conflict with utilities.	0	0.00
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), impact assessment on natural heritage features, recommendations for compensation and mitigation.	0	0.00
	• Initial anticipated approvals	4	0.17	• Legal easement on No. 190 and 200 Victoria Crescent • Grand River Conservation Authority (GRCA) for work within a Regulated Area • Ministry of the Environment and Climate Change (MOECC) Environmental Compliance Approval (ECA)	0	0.00
	• Maintenance/access considerations	3	0.13	• This portion of the storm trunk sewer is located on private property (difficult access for maintenance). • An easement for the new storm sewer alignment is required across private property (house No. 190 and No. 200 Victoria Crescent).	-2	-0.25
					Total Impacts on Technical Environment (4)	0.33
					Ranking of Alternative Within Technical Environment (6)	2
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Costs to restore disturbed areas is increased due to moderate impact to existing mature trees/vegetation. • A new outlet structure is not required; the existing outlet to Irvine Creek can be incorporated into the design of the new trunk sewer. • Limited potential for project cost escalation (i.e. unexpected subsurface conditions). • Estimated \$150,000	0	0.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future. • Increased costs associated with monitoring establishment of vegetation following site restoration.	1	0.50
					Total Impacts on Economical Environment (4)	0.50
					Ranking of Alternative Within Economical Environment (6)	2
TOTAL IMPACT ON ALL ENVIRONMENTS (5)						-0.83
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED (6)						2



# ANALYSIS/EVALUATION OF ALTERNATIVES

## PRELIMINARY PREFERRED ALTERNATIVE

ALTERNATIVE 3						
CRITERIA		Criteria Significance (i)	Normalized Weighting of Criteria	New Storm Sewer on New Alignment Along Southerly Limit of House No. 200 Victoria Crescent, Connected to Existing Outlet Structure	Performance Marking (ii)	Impacts (iii)
CULTURAL ENVIRONMENT						
Archaeology	Impacts to archaeological resources and cultural heritage landscapes	3	1.00	A Stage 1 archaeological assessment has been completed. Prior to any construction, a Stage 2 archaeological assessment is required.	0	0.00
Total Impacts on Cultural Environment (iv)					0.00	
Ranking of Alternative Within Cultural Environment (iv)					1	
SOCIAL ENVIRONMENT						
Duration of construction activities expected to be 6 weeks.						
Land Use	Impacts on private property	4	0.44	Temporary impact to aesthetics of private property (No. 200 Victoria Crescent) until disturbed vegetation is fully restored to existing or better conditions. The majority of mature trees will be untouched. New alignment requires easement on private property (house No. 190 and No. 200 Victoria Crescent). Existing Trunk Sewer will require decommissioning.	-1	-0.44
	Temporary construction impacts (access, noise, dust, etc.)	3	0.33	Disruption to private property residents (house No. 190 and No. 200 Victoria Crescent) during construction phase.	-1	-0.33
	Impacts on land use and traffic	2	0.22	Minimal disruption to Victoria Crescent traffic. Temporary (relatively short duration) disruption to access to a portion of private properties (house No. 200 Victoria Crescent) during construction.	-1	-0.22
Total Impacts on Social Environment (iv)					-1.00	
Ranking of Alternative within Social Environment (iv)					2	
NATURAL ENVIRONMENT						
Trees and Vegetation	Impacts to trees and vegetation	4	0.29	Low impact to trees and terrestrial habitat on private properties (No. 190 and No. 200 Victoria Crescent). Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 3 would result in the removal of 15 trees out of a total of 52 existing trees along the property line between house No. 190 and No. 200 (47 of the trees are on private property and 5 are on municipal property). Removal of 8 trees are a direct result of disturbance from construction activities and 7 trees (all on private property) are recommended for removal due to poor/very poor/dead condition of the tree. Of the 52 existing trees, 10 are classified as having a dominant crown, 12 are co-dominant, 14 are intermediate, and 16 are suppressed/overtopped. Of the 7 trees (all on private property) that are recommended for removal due to poor/very poor/dead condition, 1 has a co-dominant crown class, 1 has an intermediate crown class, and 5 have suppressed crown classes. Of the 8 trees that would require removal due to construction, 1 is classified as having a dominant crown, 1 is classified as having a co-dominant crown, 1 as having an intermediate crown, and 5 as having a suppressed/overtopped crown. **NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-1	-0.29
Wildlife	Impacts to wildlife and species at risk	4	0.29	Limited impact to wildlife and wildlife habitat anticipated due to the anticipated number and type of trees requiring removal.	0	0.00
Hydrology	Impacts to storm water management	3	0.21	The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. The elevation and grade of the Trunk Sewer is constrained by the elevation of the existing outlet, therefore limiting future design improvements to the upstream storm sewer network.	1	0.21
	Impacts to water quality	3	0.21	Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment (iv)					0.36	
Ranking of Alternative Within Natural Environment (iv)					1	
TECHNICAL ENVIRONMENT						
Design/Function	Ability to address opportunity statement	4	0.17	Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.	2	0.33
	Design considerations	3	0.13	Limited impacts.	1	0.13
	Ability to meet current municipal design standards	3	0.13	Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	Staging, grading constraints, utility conflicts, traffic management	3	0.13	Potential conflict with utilities.	0	0.00
	Initial anticipated studies	4	0.17	Stage 2 archaeological assessment Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), impact assessment on natural heritage features, recommendations for compensation and mitigation.	0	0.00
	Initial anticipated approvals	4	0.17	Legal easement on No. 190 and 200 Victoria Crescent GRCA for work within a Regulated Area MOECC ECA	0	0.00
	Maintenance/access considerations	3	0.13	This portion of the storm trunk sewer is located on private property (difficult access for maintenance). An easement for the new storm sewer alignment is required across private property (house No. 200 Victoria Crescent).	-1	-0.13
Total Impacts on Technical Environment (iv)					0.46	
Ranking of Alternative Within Technical Environment (iv)					1	
ECONOMICAL ENVIRONMENT						
Costs	Capital costs	3	0.50	Cost to restore disturbed areas is minimized since there is a low impact to trees/vegetation that will require restoration. A new outlet structure is not required; the existing outlet to Irvine Creek can be incorporated into the design of the new trunk sewer. Limited potential for project cost escalation (i.e. unexpected subsurface conditions). Estimated \$165,000	0	0.00
	Operation and maintenance costs	3	0.50	New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future.	2	1.00
Total Impacts on Economical Environment (iv)					1.00	
Ranking of Alternative within Economical Environment (iv)					1	
TOTAL IMPACT ON ALL ENVIRONMENTS (v)					0.82	
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED (vi)					1	



# ANALYSIS/EVALUATION OF ALTERNATIVES

ALTERNATIVE 4A						
CRITERIA		Criteria Significance <sup>(H)</sup>	Normalized Weighting of Criteria	New Storm Sewer on New Alignment Along Victoria Crescent and Through Victoria Park, Including the Installation of a New Outlet Structure Through the Bank of Irvine Creek	Performance Marking <sup>(H)</sup>	Impacts <sup>(H)</sup>
CULTURAL ENVIRONMENT						
Archaeology	• Impacts to archaeological resources and cultural heritage landscapes	3	1.00	• A Stage 1 archaeological assessment is necessary to determine the archaeological potential; however, given the archaeological sensitivity of the area, it is assumed that further archaeological assessment (Stage 2) will be required. • Installation of a new outlet through the side of the Elora Gorge will impact the cultural heritage landscape.	-2	-2.00
Total Impacts on Cultural Environment <sup>(H)</sup>					-2.00	
Ranking of Alternative Within Cultural Environment <sup>(H)</sup>					2	
SOCIAL ENVIRONMENT						
				• Duration of construction activities expected to be 3.5 months and directly affect approximately 10 private properties.		
Land Use	• Impacts on private property	4	0.44	• Access to private properties interrupted temporarily during construction period. • Private property landscape features (sidewalks, driveways, trees) disturbed during construction. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. • No easement required. • Existing Trunk Sewer will require decommissioning.	-2	-0.89
	• Temporary construction impacts (access, noise, dust, etc.)	3	0.33	• Expanded construction footprint and disruption to Victoria Crescent residents, visitors of the Irvine Promenade Trail and Victoria Park over an extended construction period.	-2	-0.67
	• Impacts on land use and traffic	2	0.22	• Temporary significant inconvenience to residents and the community due to disruption to Victoria Crescent traffic, Victoria Park, and Irvine Promenade Trail. Construction activities associated with the implementation of this alternative is significant due to physical size (footprint) of the project.	-2	-0.44
Total Impacts on Social Environment <sup>(H)</sup>					-2.00	
Ranking of Alternative Within Social Environment <sup>(H)</sup>					4	
NATURAL ENVIRONMENT						
Trees and Vegetation	• Impacts to trees and vegetation	4	0.29	• Low to Moderate impact to trees and vegetation in Victoria Park and Irvine Promenade Trail. • Impacts to trees/vegetation beneath new outlet are expected. • Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 4A would result in the removal of 24 trees out of a total of 68 existing trees located along a 10 m corridor encompassing the proposed sewer alignment through Victoria Park (all of the existing trees are located on municipal property). Removal of 19 trees through the assessed corridor are a direct result of disturbance from construction activities and 5 trees are recommended for removal due to poor/very poor/dead condition of the tree. • Of the 68 existing trees located along the assessed corridor in Victoria Park, 6 are classified as having a dominant crown, 10 are co-dominant, 36 are intermediate, and 16 are suppressed/overtopped. Of the 5 trees that are recommended for removal due to poor/very poor/dead condition, 1 is classified as having a co-dominant crown, 1 is classified as having an intermediate crown, and 3 have suppressed crowns. Of the 19 trees that would require removal due to construction, 2 are classified as having a dominant crown, 1 is classified as having a co-dominant crown, 11 as having an intermediate crown, and 5 as having suppressed crowns. • None to limited impact to trees is anticipated for the section of sewer alignment that is proposed along Victoria Crescent within the municipal road right-of-way between the existing trunk sewer location and the proposed alignment through Victoria Park. •**NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with co-dominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.	-2	-0.57
Wildlife	• Impacts to wildlife and species at risk	4	0.29	• Potential for moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-2	-0.57
Hydrology	• Impacts to storm water management	3	0.21	• The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent. • The Trunk Sewer will be installed deeper below grade, therefore allowing the opportunity to make improvements to the upstream storm sewer network.	2	0.43
	• Impacts to water quality	3	0.21	• Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(H)</sup>					-0.29	
Ranking of Alternative Within Natural Environment <sup>(H)</sup>					3	
TECHNICAL ENVIRONMENT						
Design/function	• Ability to address opportunity statement	4	0.17	• Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.	2	0.33
	• Design considerations	3	0.13	• The overall length of Trunk Sewer will increase and as a result, the design of an extensive rock excavation will be required to achieve the appropriate grade/fall from the current upstream storm sewer junction to the new outlet at Irvine Creek. • Design will be constrained by the location of existing utilities. • Long design process due to initial anticipated studies required, stakeholder involvement, and initial anticipated approvals required.	-2	-0.25
	• Ability to meet current municipal design standards	3	0.13	• Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	• Staging, grading constraints, utility conflicts, traffic management	3	0.13	• Potential conflicts with watermain, sanitary sewer and utilities along Victoria Crescent and Victoria Park. • Construction activities will require phasing to minimize impacts to the public and reduce traffic management requirements.	-2	-0.25
	• Initial anticipated studies	4	0.17	• Stage 2 archaeological assessment • Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), delineation of woodland dripline, evaluation and significance of the woodland, Fish Habitat Assessment and Fish Community Survey, Thermal Impact Assessment (also includes post-construction monitoring requirements), slope stability assessment and geotechnical investigation, impact assessment on natural heritage features, and recommendations for compensation and mitigation.	-2	-0.33
	• Initial anticipated approvals	4	0.17	• DFO • Township and County to alter lands zoned as Core Greenlands within the Official Plan • GRCA for work within a Regulated Area • MOECC ECA • MNRF	-2	-0.33
	• Maintenance/access considerations	3	0.13	• Provides accessible outlet for maintenance.	2	0.25
Total Impacts on Technical Environment <sup>(H)</sup>					-0.46	
Ranking of Alternative Within Technical Environment <sup>(H)</sup>					3	
ECONOMICAL ENVIRONMENT						
Costs	• Capital costs	3	0.50	• Considerable rock excavation is expected. • Physical infrastructure required is increased. • Several technical studies and permits/approvals are anticipated. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities. A new outlet to Irvine Creek is required. • Large construction footprint that will require restoration to match or exceed existing conditions. • Moderate potential for project cost escalation (i.e. unexpected subsurface conditions, equipment requirements, etc.). • Estimated \$715,000	-2	-1.00
	• Operation and maintenance costs	3	0.50	• New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future. • Increased costs associated with monitoring establishment of vegetation following site restoration.	1	0.50
Total Impacts on Economical Environment <sup>(H)</sup>					-0.50	
Ranking of Alternative within Economical Environment <sup>(H)</sup>					3	
TOTAL IMPACT ON ALL ENVIRONMENTS <sup>(5)</sup>						-5.24
PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED <sup>(6)</sup>						4



# ANALYSIS/EVALUATION OF ALTERNATIVES

ALTERNATIVE 4B						
CRITERIA	Criteria Significance (a)	Normalized Weighting of Criteria	New Storm Outlet on New Alignment Routed Along Smith St. and Henderson St. and Through Victoria Park, Including the Installation of a New Outlet Structure Through the Bank of Irvine Creek	Performance Marking <sup>(b)</sup>	Impacts <sup>(b)</sup>	
<b>CULTURAL ENVIRONMENT</b>						
Archaeology	Impacts to archaeological resources and cultural heritage landscapes	3	1.00	<ul style="list-style-type: none"> <li>A Stage 1 archaeological assessment is necessary to determine the archaeological potential; however, given the archaeological sensitivity of the area, it is assumed that further archaeological assessment (Stage 2) will be required.</li> <li>Installation of a new outlet through the side of the Elora Gorge will impact the cultural heritage landscape.</li> </ul>	-2	-2.00
Total Impacts on Cultural Environment <sup>(b)</sup>					-2.00	
Ranking of Alternative Within Cultural Environment <sup>(b)</sup>					2	
<b>SOCIAL ENVIRONMENT</b>						
<ul style="list-style-type: none"> <li>Duration of construction activities expected to be 4 months and directly affect approximately 23 private properties.</li> </ul>						
Land Use	Impacts on private property	4	0.44	<ul style="list-style-type: none"> <li>Access to private properties interrupted temporarily during construction period.</li> <li>Private property landscape features (sidewalks, driveways, trees) disturbed during construction. Although the vegetation will be restored, it may take some time for disturbed natural areas to re-establish and these areas may appear less naturalized during and for some time following construction activities.</li> <li>No easement required.</li> <li>Existing Trunk Sewer will require decommissioning.</li> </ul>	-2	-0.89
	Temporary construction impacts (access, noise, dust, etc.)	3	0.33	Expanded construction footprint and disruption to Victoria Crescent, Smith St., and Henderson St. residents and visitors of the Irvine Promenade Trail and Victoria Park over an extended construction period.	-2	-0.67
	Impacts on land use and traffic	2	0.22	Temporary significant inconvenience to residents and the community due to disruption to Victoria Crescent, Smith St. and Henderson St. traffic, Victoria Park, and Irvine Promenade Trail. The expected duration of construction activities associated with implementation of this alternative is the longest of all of the alternatives being considered due to the physical footprint of the project.	-2	-0.44
Total Impacts on Social Environment <sup>(b)</sup>					-2.00	
Ranking of Alternative Within Social Environment <sup>(b)</sup>					4	
<b>NATURAL ENVIRONMENT</b>						
Trees and Vegetation	Impacts to trees and vegetation	4	0.29	<ul style="list-style-type: none"> <li>Low to Moderate impact to trees and vegetation in Victoria Park and Irvine Promenade Trail.</li> <li>Impacts to trees/vegetation beneath new outlet are expected.</li> <li>Based on the results of a Tree Assessment completed by Aboud in September 2017, it is anticipated that implementation of Alternative 4A would result in the removal of 24 trees out of a total of 68 existing trees located along a 10 m corridor encompassing the proposed sewer alignment through Victoria Park (all of the existing trees are located on municipal property). Removal of 19 trees through the assessed corridor are a direct result of disturbance from construction activities and 5 trees are recommended for removal due to poor/very poor/dead condition of the tree.</li> <li>Of the 68 existing trees located along the assessed corridor in Victoria Park, 6 are classified as having a dominant crown, 10 are co-dominant, 36 are intermediate, and 16 are suppressed/overtopped. Of the 5 trees that are recommended for removal due to poor/very poor/dead condition, 1 is classified as having a co-dominant crown, 1 is classified as having an intermediate crown, and 3 have suppressed crowns. Of the 19 trees that would require removal due to construction, 2 are classified as having a dominant crown, 1 is classified as having a co-dominant crown, 11 as having an intermediate crown, and 5 as having suppressed crowns.</li> <li>None to limited impact to trees is anticipated for the section of sewer alignment that is proposed along Victoria Crescent within the municipal road right-of-way between the existing trunk sewer location and the proposed alignment through Victoria Park.</li> <li>**NOTE: Tree crown classes are as follows: Trees having a dominant crown typically have a trunk diameter that is the largest in the stand and the crown is generally well developed and dominates the canopy of the stand. Trees with codominant crowns help form the main canopy and typically have trunk diameters in the upper range within the stand. Trees with an intermediate crown extend into the lower part of the main canopy, typically intercepting direct sunlight by a limited area on the top of the crown and have varying trunk diameters, typically in the lower range of the stand. Trees having a suppressed/overtopped crown sit well below the main canopy, are small and sparse, not exposed to direct sunlight, and generally have trunk diameters that are the smallest in the stand.</li> </ul>	-2	-0.57
Wildlife	Impacts to wildlife and species at risk	4	0.29	Potential for moderate impact to wildlife and wildlife habitat due to the anticipated number and type of trees requiring removal.	-2	-0.57
Hydrology	Impacts to storm water management	3	0.21	<ul style="list-style-type: none"> <li>The Trunk Sewer will be adequately sized to convey peak flows from the 5 year storm for the revised Victoria Crescent drainage area under existing and future growth conditions. Storm water in excess of the 5 year storm will continue to flow overland between house No. 190 and No. 200 Victoria Crescent.</li> <li>The Trunk Sewer will be installed deeper below grade, therefore allowing the opportunity to make improvements to the upstream storm sewer network.</li> </ul>	2	0.43
	Impacts to water quality	3	0.21	Opportunity to add water quality controls to the storm water management system, improving water quality discharging into Irvine Creek from the Trunk Sewer.	2	0.43
Total Impacts on Natural Environment <sup>(b)</sup>					-0.29	
Ranking of Alternative Within Natural Environment <sup>(b)</sup>					3	
<b>TECHNICAL ENVIRONMENT</b>						
Design/Function	Ability to address opportunity statement	4	0.17	Addresses opportunity statement and includes decommissioning the existing Trunk Sewer.	2	0.33
	Design considerations	3	0.13	<ul style="list-style-type: none"> <li>The overall length of Trunk Sewer will increase and as a result, the design of an extensive rock excavation will be required to achieve the appropriate grade/fall from the current upstream storm sewer junction to the new outlet at Irvine Creek.</li> <li>Design will be constrained by the location of existing utilities.</li> <li>Long design process due to initial anticipated studies required, stakeholder involvement, and initial anticipated approvals required.</li> </ul>	-2	-0.25
	Ability to meet current municipal design standards	3	0.13	Upgrade the new Trunk Sewer to conform to current municipal design standards.	1	0.13
	Staging, grading constraints, utility conflicts, traffic management	3	0.13	<ul style="list-style-type: none"> <li>Anticipated conflicts with watermain, sanitary sewer and utilities along Victoria Crescent, Smith St. and Henderson St.</li> <li>Construction activities will require phasing to minimize impacts to the public and reduce traffic management requirements.</li> </ul>	-2	-0.25
	Initial anticipated studies	4	0.17	<ul style="list-style-type: none"> <li>Stage 2 archaeological assessment</li> <li>Scoped Environmental Impact Study and Report which includes, but may not be limited to the following: characterization of vegetation communities and botanical inventory, breeding bird survey, investigation for wildlife habitat and wildlife presence (includes Species at Risk), delineation of woodland dripline, evaluation and significance of the woodland, Fish Habitat Assessment and Fish Community Survey, Thermal Impact Assessment (also includes post-construction monitoring requirements), slope stability assessment and geotechnical investigation, impact assessment on natural heritage features, and recommendations for compensation and mitigation</li> </ul>	-2	-0.33
	Initial anticipated approvals	4	0.17	<ul style="list-style-type: none"> <li>DFO</li> <li>Township and County to alter lands zoned as Core Greenlands within the Official Plan</li> <li>GRCA for work within a Regulated Area</li> <li>MOECC ECA</li> <li>MNR</li> </ul>	-2	-0.33
	Maintenance/access considerations	3	0.13	Provides accessible outlet for maintenance.	2	0.25
Total Impacts on Technical Environment <sup>(b)</sup>					-0.46	
Ranking of Alternative Within Technical Environment <sup>(b)</sup>					3	
<b>ECONOMICAL ENVIRONMENT</b>						
Costs	Capital costs	3	0.50	<ul style="list-style-type: none"> <li>Considerable rock excavation is expected.</li> <li>Physical infrastructure required is significantly increased.</li> <li>Several technical studies and permits/approvals are anticipated.</li> <li>A new outlet to Irvine Creek is required.</li> <li>Largest construction footprint that will require restoration to match or exceed existing conditions.</li> <li>Additional effort required to remove existing storm sewers on Smith St. and Henderson St.</li> <li>Moderate/high potential for project cost escalation (i.e. unexpected subsurface conditions, equipment requirements, etc.).</li> <li>Estimated \$975,000</li> </ul>	-2	-1.00
	Operation and maintenance costs	3	0.50	<ul style="list-style-type: none"> <li>New Trunk Sewer will have an expected useful service life in excess of 75 years and require minimal maintenance for the foreseeable future.</li> <li>Increased costs associated with monitoring establishment of vegetation following site restoration.</li> </ul>	1	0.50
Total Impacts on Economical Environment <sup>(b)</sup>					-0.50	
Ranking of Alternative Within Economical Environment <sup>(b)</sup>					3	
<b>TOTAL IMPACT ON ALL ENVIRONMENTS<sup>(5)</sup></b>						<b>-5.24</b>
<b>PRELIMINARY RANKING OF ALTERNATIVE, TOTAL OF ALL ANTICIPATED IMPACTS CONSIDERED<sup>(6)</sup></b>						<b>4</b>



**EVALUATION NOTES**

**(1) Significance Weighting of Environmental Criterion (based on best representation of stakeholders' viewpoints)**

- 1 = Low Importance
- 2 = Important
- 3 = High Importance
- 4 = Utmost Important

**(2) Normalized Weighting of Criteria = Criteria Significance / Sum of all Criteria Significance within Environmental Category**

**(3) Performance Rating, \* based on the expected impacts of an alternative to a specific criterion**

- 2 = Significant net benefits are expected
- 1 = Net positive impacts (benefits outweigh the negative impacts)
- 0 = Neutral; none or very limited changes to existing conditions are expected
- 1 = Net negative impacts (negative impacts outweigh the benefits)
- 2 = Significant net negative impacts are expected

**\*Factors considered in the assignment of a performance rating:**

- magnitude of impact (low/moderate/high)
- geographic extent of impact (site specific, local, regional)
- duration of impact (temporary, long-term, permanent)
- frequency of impact (rare, irregular, regular, continuous)
- reversibility of impact (reversible or irreversible)
- ecological/socioeconomic context (undisturbed, developed)
- confidence in prediction of impact (low, moderate, high)
- likelihood of impact (low, medium, high probability)
- other projects/activities/actions that may contribute to the cumulative environmental impacts

**(4) Impact = Normalized Criteria Weighting x Performance Marking**

**(5) Total Impact on all Environments = Sum of all impacts on all environmental categories**

**(6) Preliminary Ranking of alternatives based on the following numerical scale and colour scheme:**

- 1 = Most Preferred (1st Choice)
- 2 = 2nd Choice
- 3 = 3rd Choice
- 4 = Least Preferred (Last Choice)



# **MITIGATION MEASURES**

The project design will ensure the following measures are taken to mitigate identified impacts:

## **Natural Environment**

- Complete technical studies and evaluations to the satisfaction of regulatory agencies and public consultation to support detailed design
- Complete subsurface investigation prior to excavation and/or rock cutting
- Prepare a tree and vegetation conservation and restoration planting plan to match or exceed existing conditions
- Implement sediment and erosion control measures
- Follow all regulatory requirements to protect the environment
- Plan construction work during non-sensitive periods (i.e. breeding seasons) for wildlife
- Prepare contingency plan for clean-up during construction
- Obtain applicable permit approvals, as required

## **Social Environment**

- Stage construction to cause least disturbance to adjacent uses
- Employ noise, vibration and dust control measures
- Advance notification to public agencies and adjacent owners of construction scheduling and temporary access routes
- Carry out Stage 2 archaeological assessment
- Preserve existing amenities as much as possible



# NEXT STEPS

## **Alternative Design and Selection**

- Respond to comments/suggestions from review agencies and the public
- Select preferred solution
- Post notice of completion to review agencies and the public for 30 calendar day review period
- File project on public record

## **Implementation**

- Complete contract drawings and tender documents
- Perform construction and operation measures
- Monitor for environmental provisions and commitments





TOWNSHIP OF CENTRE WELLINGTON  
TRUNK STORM SEWER EVALUATION, VICTORIA CRESCENT, ELORA  
**PUBLIC INFORMATION CENTRE**

WEDNESDAY, NOVEMBER 29, 2017, 7:00 p.m. to 8:00 p.m.  
ELORA COMMUNITY CENTRE HALL, 21 DAVID STREET WEST, ELORA

## REGISTRATION

[illegible]



Comment	Respondent	Date	Comment	Response/Action
1.	Ministry of Tourism, Culture and Sport	11-30-17	<ul style="list-style-type: none"> <li>Requested a copy of PIC material to review.</li> </ul>	Advised location of PIC materials online on Township website.
2.	Elora Resident #1	12-10-17	<ul style="list-style-type: none"> <li>Requested for comments to be received until at least January 31, 2018 to allow sufficient time to prepare a response to the material provided at the PIC.</li> <li>Believes there are other options available to address the Problem Statement that do not impact private property and do not involve a new outlet through Victoria Park.</li> <li>Believes the evaluation of alternatives is incomplete and the identified preliminary preferred alternative is not justified since all impacts have not been considered (cost considerations to obtain a legal easement, compensation to private properties directly impacted, trees to be displaced, impacts to property value)</li> <li>Believes there has been a lack of consultation, due diligence and transparency in the process to date.</li> <li>Believes there will be negative impacts to the heritage district as a result of project implementation.</li> <li>Where does the storm water on the south side of the rise in Victoria Crescent go and why hasn't that system or other existing systems been considered in redirecting stormwater from the existing Victoria Crescent trunk sewer?</li> </ul>	<ul style="list-style-type: none"> <li>Provided background information regarding early discussions about the Trunk Sewer and intentions to minimize and avoid impacts to the natural environment as much as possible.</li> <li>Advised that the Township will work with residents in finalizing details for the preferred alternative for the Trunk Sewer, which will include a Cultural Heritage Resource Assessment.</li> <li>Meetings between Township Staff, resident, and Triton took place on May 9, 2018 to realize the impacts to private property, which will be used in the revised evaluation of alternatives. Triton explained that the natural overland flow route for stormwater would remain between House No. 190 and 200 Victoria Crescent regardless of the presence of the Victoria Trunk Storm Sewer. The resident was ensured that the project is being undertaken in accordance with the Class EA process. At this meeting, potential impacts to the trees for each of the alternatives was also discussed, consistent with the Tree Preservation Plan (Aboud &amp; Associates, November 2017).</li> <li>Consideration of cost associated with obtaining an easement is applicable to Alternatives 2 and 3; however, does not change the outcome of the evaluation.</li> </ul>



<b>Comment</b>	<b>Respondent</b>	<b>Date</b>	<b>• Comment</b>	<b>• Response/Action</b>
2. (continued)			<ul style="list-style-type: none"> <li>• Why haven't diversions along Geddes and David been presented to minimize storm water entering Smith, Moir or Henderson?</li> <li>• Why hasn't a natural solution been considered to address the problem?</li> <li>• Are there other options beyond a trunk storm sewer that were considered to address the problem statement and what is considered best practice in stormwater management?</li> <li>• Suggested that legal counsel will be consulted.</li> </ul>	<ul style="list-style-type: none"> <li>• Provided a summary of reconstruction projects within Elora that have resulted in a reduction of contributing flow to the existing Victoria Crescent Trunk Storm Sewer.</li> <li>• Explained that other options were considered; however, only those that are reasonable, practical and implementable were carried forward for evaluation.</li> <li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li> </ul>
3.	Elora Resident #2	12-11-17	<ul style="list-style-type: none"> <li>• Requested data on flow rates and upstream options.</li> <li>• What is the width of the proposed easement on private properties impacted by Alternatives 2 and 3?</li> <li>• Mitigation measure to "match or exceed existing vegetation" on Irvine Promenade is impossible to deliver.</li> <li>• The Tree Preservation Plan is difficult to interpret and trees to be impacted are unknown.</li> <li>• Prior related requests made in July 2014 requesting data dating back to 2005 have not been answered.</li> <li>• Commented that there has not been any major flooding in the Study Area as long as their residency (commenced in 1972).</li> <li>• Requested PIC comment period to be extended.</li> <li>• Requested meeting with Township staff.</li> </ul>	<ul style="list-style-type: none"> <li>• A meeting between the resident and Township staff took place on May 9, 2018. At this meeting, impacts to the trees for each of the alternatives were discussed, consistent with the Tree Preservation Plan (Aboud &amp; Associates, November 2017).</li> <li>• Provided comment that the removal of the existing Victoria Crescent Trunk Storm Sewer in entirety would result in overland flow between House No. 190 and 200 as this is the natural overland flow route for the Victoria Crescent Trunk Storm Sewer contributing drainage area.</li> <li>• Provided a summary of reconstruction projects within Elora that have resulted in a reduction of contributing flow to the existing Victoria Crescent Trunk Storm Sewer to address the inquiry regarding upstream options and flow rates.</li> <li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li> </ul>



M6186A

Victoria Crescent Trunk Storm Sewer Evaluation Municipal Class EA

Summary of Correspondence Regarding the PIC

Comment	Respondent	Date	Comment	Response/Action
4.	Elora Resident #1	12-12-17	<ul style="list-style-type: none"><li>• Reiterated that completed analysis of alternatives is incomplete and requested analysis to be revised with an additional comment period and proposed for evaluation to include a natural solution; reinforcement of existing trunk; essential information; revise evaluation ranking scheme.</li><li>• Feels the Consultant does not have a complete understanding of existing conditions.</li></ul>	<ul style="list-style-type: none"><li>• See response to Comment 2.</li><li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li></ul>
5.	Elora Resident #1	01-08-18	<ul style="list-style-type: none"><li>• Stated that there has been no consultation with them regarding the preferred alternative prior to the PIC on 11-29-17 and requested a meeting to discuss the full impacts to private properties as a result of implementation of the preferred alternative.</li><li>• Provided a summary of consultation prior to the PIC.</li><li>• Drawing available at PIC showing impact to trees was impossible to assess.</li><li>• Requested more detail regarding the preferred alternative as there has not been enough detail provided to date to fully understand what is being proposed.</li><li>• Opposes any alternatives that impact private property.</li></ul>	<ul style="list-style-type: none"><li>• See response to Comment 2.</li><li>• Coloured drawings of the Tree Preservation Plan have been added to the Project File.</li><li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li></ul>
6.	MTCS	01-09-18	<ul style="list-style-type: none"><li>• Reviewed the PIC material and requested to continue to be included in consultation process and updates on archaeological assessment.</li><li>• Stated that Cultural and Heritage screening document should be included in the evaluation process.</li></ul>	<ul style="list-style-type: none"><li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li></ul>



M6186A

Victoria Crescent Trunk Storm Sewer Evaluation Municipal Class EA

Summary of Correspondence Regarding the PIC

Comment	Respondent	Date	Comment	Response/Action
7.	Elora Resident #1	01-30-18	<ul style="list-style-type: none"><li>• Reiterated opposition to evaluation of alternatives due to lack of rationale to support repairing existing Trunk Sewer, Consultant and Township lack of knowledge on existing infrastructure, failure to consider natural solutions and other diversions, and lack of detail used in the analysis.</li><li>• Expressed feelings of unfairness and disrespect in the EA process to date.</li><li>• Expressed concerns for impacts to private property (heritage and natural environment) as a result of implementation of the preferred alternative.</li></ul>	<ul style="list-style-type: none"><li>• See response to Comment 2.</li><li>• Comments were noted and considered in reviewing the evaluation of the alternatives presented at the PIC.</li></ul>



## Lindsay Scott

---

**From:** Paul Ziegler  
**Sent:** November 30, 2017 10:01 AM  
**To:** Muller, Joseph (MTCS)  
**Cc:** sash@centrewellington.ca; Lindsay Scott  
**Subject:** RE: Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

Hi Joe, Yes all material from the PIC will be available on the Township's website shortly – if not today hopefully tomorrow.

Paul

Paul Ziegler, C.E.T.



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Muller, Joseph (MTCS) [mailto:Joseph.Muller@ontario.ca]  
**Sent:** November-30-17 9:52 AM  
**To:** Paul Ziegler  
**Cc:** sash@centrewellington.ca  
**Subject:** Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

Hello Paul Zeigler:

I was unable to attend yesterday's PIC for the above project, and I am wondering if the presentation materials will be posted online or I could be sent a digital copy. Thank-you for your assistance,

Joe

**Joseph Muller, RPP, MCIP**

Heritage Planner  
Ministry of Tourism, Culture and Sport  
Culture Division | Programs and Services Branch | Heritage Program Unit

401 Bay Street, Suite 1700  
Toronto, Ontario M7A 0A7

Tel. 416.314.7145 | Fax. 416.212.1802



## Lindsay Scott

---

**From:** Muller, Joseph (MTCS) <Joseph.Muller@ontario.ca>  
**Sent:** January 9, 2018 10:37 AM  
**To:** Paul Ziegler  
**Cc:** sash@centrewellington.ca; Lindsay Scott  
**Subject:** RE: Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

Hello Paul:

Thank-you – I was able to take a look at the PIC material, and appreciate your inclusion of cultural heritage resources in the evaluation of alternatives. I do not have any comments now: please continue to circulate us through the EA process and update us on the status of the archaeological assessment. As well, if in the detail design it is determined that there are no built heritage or cultural heritage landscape features within the project area, or none that will be impacted by the project, please complete and include the [\*Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes\*](#) screening document to confirm that these were incorporated within the evaluation of alternatives and impacts. Thanks again for your help,

Joe

**Joseph Muller, RPP, MCIP**

Heritage Planner  
Ministry of Tourism, Culture and Sport  
Culture Division | Programs and Services Branch | Heritage Program Unit

401 Bay Street, Suite 1700  
Toronto, Ontario M7A 0A7

Tel. 416.314.7145 | Fax. 416.212.1802

---

**From:** Paul Ziegler [mailto:PZiegler@tritoneng.on.ca]  
**Sent:** November 30, 2017 10:01 AM  
**To:** Muller, Joseph (MTCS)  
**Cc:** sash@centrewellington.ca; Lindsay Scott  
**Subject:** RE: Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

Hi Joe, Yes all material from the PIC will be available on the Township's website shortly – if not today hopefully tomorrow.

Paul

Paul Ziegler, C.E.T.



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



---

**From:** Muller, Joseph (MTCS) [<mailto:Joseph.Muller@ontario.ca>]  
**Sent:** November-30-17 9:52 AM  
**To:** Paul Ziegler  
**Cc:** [sash@centrewellington.ca](mailto:sash@centrewellington.ca)  
**Subject:** Replacement of Trunk Storm Sewer, Victoria Crescent, Elora

Hello Paul Zeigler:

I was unable to attend yesterday's PIC for the above project, and I am wondering if the presentation materials will be posted online or I could be sent a digital copy. Thank-you for your assistance,

Joe

**Joseph Muller, RPP, MCIP**

Heritage Planner  
Ministry of Tourism, Culture and Sport  
Culture Division | Programs and Services Branch | Heritage Program Unit

401 Bay Street, Suite 1700  
Toronto, Ontario M7A 0A7

Tel. 416.314.7145 | Fax. 416.212.1802



## **Appendix L**

### **Notice of Completion Documentation**



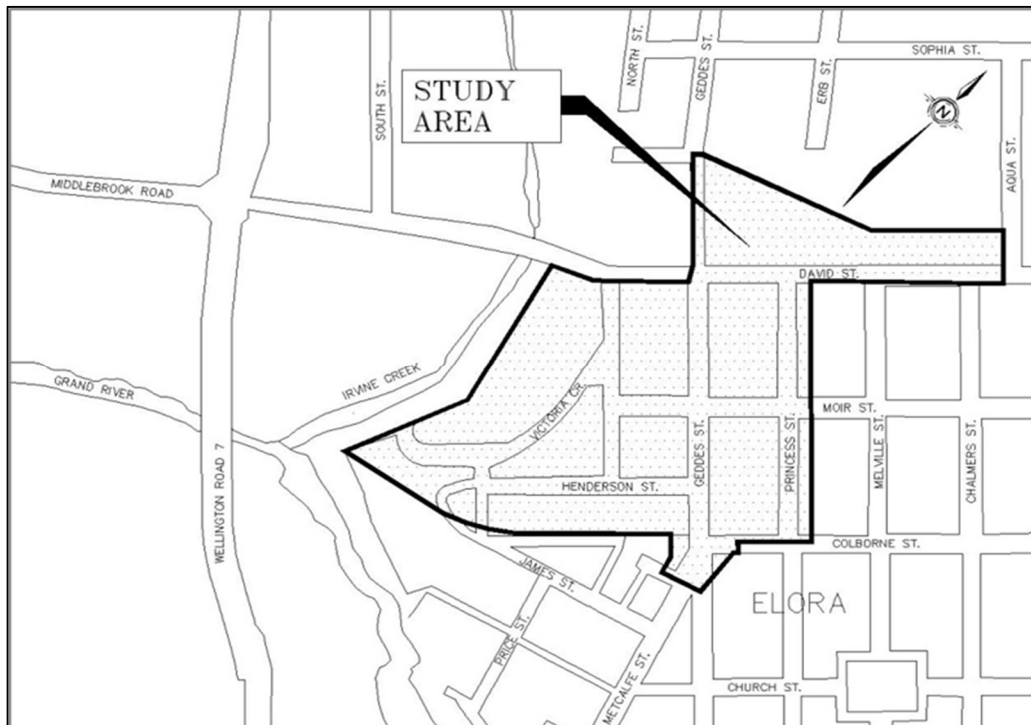


## THE CORPORATION OF THE TOWNSHIP OF CENTRE WELLINGTON

### MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT REPLACEMENT OF TRUNK STORM SEWER VICTORIA CRESCENT, ELORA

## NOTICE OF COMPLETION

The Township of Centre Wellington (Township) is undertaking a Schedule B Municipal Class Environmental Assessment Study to establish a preferred alternative for replacing aging stormwater infrastructure within the Study Area, as illustrated below. Stormwater runoff from the Study Area discharges to the Irvine Creek via a trunk storm sewer in the vicinity of Victoria Crescent in Elora. Replacement of the trunk storm sewer is required not only to address the poor condition of the existing pipe, but to also provide upgrades to meet minimum depth, sizing and grade requirements to service the existing drainage area and planned future growth.



Through consultation with Agencies, Members of the Public, and Indigenous Communities, the preferred alternative identified through this Municipal Class Environmental Assessment Study is to construct a new trunk storm sewer from Victoria Crescent to the existing outfall at Irvine Creek along a new alignment, and to decommission and abandon in place the existing storm sewer.

This project was planned in accordance with the requirements of a Schedule 'B' undertaking of the Municipal Class Environmental Assessment (MCEA) process (October 2000, and as amended in 2007, 2011, and 2015), which is an approved process under the Ontario *Environmental Assessment Act*.



A Project File Report has been prepared to document the planning and decision-making process for this Municipal Class Environmental Assessment Study. A copy of the Project File Report is being placed on the public record for a 30-day review period from June 9 to July 10, 2022. The Project File Report is available for review on the Township's website at: <https://www.centrewellington.ca/en/living-here/environmental-assessments.aspx>

If you have any questions, comments or concerns regarding this study, please contact one of the Project Team members below by July 10, 2022:

**Adam Gilmore, M.A.Sc., P.Eng.**

Manager of Engineering  
Township of Centre Wellington  
1 MacDonald Square  
Elora, ON N0B 1S0  
(519) 846-9691 ext. 301  
agilmore@centrewellington.ca

**Paul Ziegler, C.E.T.**

Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14  
Fergus, ON N1M 1S6  
(519) 843-3920  
pziegler@tritoneng.on.ca

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks (MECP) for an order requiring a higher level of study, or that conditions be imposed, only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested, how an order may prevent, mitigate or remedy those potential adverse impacts, and any information to support the request. The request should be sent in writing or by email to the project contacts noted above and the following:

**Minister of the Environment, Conservation  
and Parks**

Ministry of the Environment, Conservation and  
Parks  
777 Bay Street, 5th Floor  
Toronto, ON M7A 2J3  
Minister.mecp@ontario.ca

**Director, Environmental Assessment Branch**

Ministry of Environment, Conservation and  
Parks  
135 St. Clair Ave. W, 1st Floor  
Toronto, ON M4V 1P5  
EABDirector@ontario.ca

Comments submitted to the Township of Centre Wellington for the purpose of providing feedback regarding this Municipal Class Environmental Assessment are collected under the authority of the *Environmental Assessment Act*. 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. Questions relating to the collection, use and disclosure of this information may be addressed to Adam Gilmore, Manager of Engineering at 519-846-9691 x301 or agilmore@centrewellington.ca

This Notice was first issued on June 9, 2022.



Township of Centre Wellington  
 Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
 Municipal Class Environmental Assessment  
 Contact List – Notice of Completion

Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Impact Assessment Agency of Canada</b> 55 York Street, 6 <sup>th</sup> Floor <b>TORONTO</b> , Ontario M5J 1R7	<a href="mailto:Ontarioregion-regiondontario@iaac-aeic.gc.ca">Ontarioregion-regiondontario@iaac-aeic.gc.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Environment, Conservation and Parks</b> Environmental Assessment Branch 135 St. Clair Avenue West, 1 <sup>st</sup> Floor <b>TORONTO</b> , Ontario M4V 1P5	Director, <a href="mailto:EABDirector@ontario.ca">EABDirector@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Environment, Conservation and Parks</b> Hamilton Regional Office 12 <sup>th</sup> Floor, 119 King Street West <b>HAMILTON</b> , Ontario L8P 4Y7	<a href="mailto:Eanotification.wcregion@ontario.ca">Eanotification.wcregion@ontario.ca</a>  Attn: EA/Planning Coordinator  Manpreet Dhesi Water Compliance <a href="mailto:Manpreet.dhesi@ontario.ca">Manpreet.dhesi@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Environment, Conservation and Parks</b> Guelph District Office 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	<a href="mailto:mecpguelph@ontario.ca">mecpguelph@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Ministry of Northern Development, Mines, Natural Resources and Forestry</b> 1 Stone Road West <b>GUELPH</b> , Ontario N1G 4Y2	Ian Thronton District Supervisor -Guelph District <a href="mailto:ian.thronton@ontario.ca">ian.thronton@ontario.ca</a>  Al Murray District Supervisor – Guelph District <a href="mailto:Al.murray@ontario.ca">Al.murray@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Municipal Affairs and Housing</b> Western Municipal Services Office 659 Exeter Road, 2 <sup>nd</sup> Floor <b>LONDON</b> , Ontario N6E 1L3	Erick Boyd Manager, Community Planning and Development <a href="mailto:Erick.boyd@ontario.ca">Erick.boyd@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Economic Development, Job Creation and Trade</b> College Park 18 <sup>th</sup> Floor 777 Bay Street <b>TORONTO</b> , Ontario M7A 1S5	Honorable Victor Fedeli Minister <a href="mailto:MEDJCT.Minister@ontario.ca">MEDJCT.Minister@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Heritage, Sport, Tourism and Culture Industries</b> 401 Bay Street <b>TORONTO</b> , Ontario M7A 0A7	Dan Minkin Heritage Planner, Heritage Planning Unit <a href="mailto:Dan.minkin@ontario.ca">Dan.minkin@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Fisheries and Oceans Canada</b> Burlington District Office 867 Lakeshore Road <b>BURLINGTON</b> , Ontario L7S 1A1	Regional Environmental Assessment Analyst  <a href="mailto:info@dfo-mpo.gc.ca">info@dfo-mpo.gc.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Grand River Conservation Authority</b> 400 Clyde Road Box 729 <b>CAMBRIDGE</b> , Ontario N1R 5W6	Fred Natolochny Supervisor of Resource Planning – Client Service Facilitator <a href="mailto:fnatolochny@grandriver.ca">fnatolochny@grandriver.ca</a>  Ben Kissner Planner – Wellington North, Centre Wellington, Mapleton <a href="mailto:bkissner@grandriver.ca">bkissner@grandriver.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Ministry of Indigenous Affairs</b> 160 Bloor Street East, 4 <sup>th</sup> Floor <b>TORONTO</b> , Ontario M7A 2E6	Jessica Hill Senior Advisor Indigenous Relations Unit <a href="mailto:Jessica.hill2@ontario.ca">Jessica.hill2@ontario.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Six Nations of the Grand River Territory</b> 1695 Chiefswood Road P.O. Box 5000 <b>OHSWEKEN</b> , Ontario N0A 1M0	Chief Mark B. Hill <a href="mailto:markhill@sixnation.ca">markhill@sixnation.ca</a>  Robbin Vanstone Consultation Supervisor <a href="mailto:rlinn@sixnations.ca">rlinn@sixnations.ca</a>  Lonny Bomberly Lands and Resources Director <a href="mailto:lonnybomberly@sixnations.ca">lonnybomberly@sixnations.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Haudenosaunee Confederacy Chiefs Council</b> <b>c/o Haudenosaunee Development Institute</b> P.O. Box 714 <b>OHSWEKEN</b> , Ontario N0A 1M0	<a href="mailto:info@hdi.land">info@hdi.land</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Mississaugas of the New Credit First Nation</b> 2789 Mississauga Rd, R.R. #6 <b>HAGERSVILLE</b> , Ontario N0A 1H0	Chief R. Stacey LaForme <a href="mailto:Stacey.laforme@mncfn.ca">Stacey.laforme@mncfn.ca</a>  Mark LaForme Director of Consultation <a href="mailto:Mark.Laforme@mncfn.ca">Mark.Laforme@mncfn.ca</a>  Fawn Sault Consultation Manager <a href="mailto:Fawn.Sault@mncfn.ca">Fawn.Sault@mncfn.ca</a>  Megan DeVries Archaeological Coordinator <a href="mailto:Megan.devries@mncfn.ca">Megan.devries@mncfn.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Métis Nation of Ontario</b> Suite 1100 – 66 Slater Street <b>OTTAWA</b> , Ontario K1P5H1	<a href="mailto:consultations@metisnation.org">consultations@metisnation.org</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Bell Aliant</b> 21 First Avenue <b>ORANGEVILLE</b> , Ontario L9W 1H7	Neil Ackerman Implementation Manager, Network Provisioning <a href="mailto:Neil.ackerman1@bell.ca">Neil.ackerman1@bell.ca</a>		Mailed (Regular Mail) and Emailed 06/09/2022
<b>Cogeco Cable Inc.</b> 950 Syscon Road, Box 5076, Stn LCD 1 <b>BURLINGTON</b> , Ontario L7R 4S6	Jenn McLean Project Planner <a href="mailto:Jenn.mclean@cogeco.com">Jenn.mclean@cogeco.com</a>		Mailed (Regular Mail) and Emailed 06/09/2022
<b>Enbridge Gas Inc.</b> 603 Kumpf Drive P.O. Box 340 <b>WATERLOO</b> , ON N2J 4A4	Kevin Schimus Sr. Advisor, Construction and Project Management Southeast Region Construction and Growth <a href="mailto:Kevin.schimus@enbridge.com">Kevin.schimus@enbridge.com</a>		Mailed (Regular Mail) and Emailed 06/09/2022
<b>Centre Wellington Hydro Ltd.</b> 730 Gartshore Street, P.O. Box 217 <b>FERGUS</b> , Ontario N1M 2W8	Carm Stefanelli <a href="mailto:cstefanelli@cwhydro.ca">cstefanelli@cwhydro.ca</a>		Mailed (Regular Mail) and Emailed 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Wightman Telecom</b> 100 Elora Street North, P.O. Box 70 <b>CLIFFORD</b> , Ontario N0G 1M0	Paul Rhody Manager, Access Network Design <a href="mailto:prhody@wightman.ca">prhody@wightman.ca</a>		Mailed (Regular Mail) and Emailed 06/09/2022
<b>Elora BIA</b> P.O. Box 2903 ELORA, Ontario N0B 1S0	<a href="mailto:elorabia@wightman.ca">elorabia@wightman.ca</a>		Mailed (Regular Mail) and Emailed 06/09/2022
<b>Township of Centre Wellington</b> 1 MacDonald Square <b>ELORA</b> , Ontario N0B 1S0	Mariana Iglesias Senior Planner <a href="mailto:miglesias@centrewellington.ca">miglesias@centrewellington.ca</a>  Dan Wilson Chief Administrative Officer <a href="mailto:dwilson@centrewellington.ca">dwilson@centrewellington.ca</a>  Kendra Martin Communications & Strategic Initiatives Specialist <a href="mailto:kmartin@centrewellington.ca">kmartin@centrewellington.ca</a>  Adam Gilmore Manager of Engineering <a href="mailto:agilmore@centrewellington.ca">agilmore@centrewellington.ca</a>  Brandon Buehler Engineering Technologist, Water and Wastewater <a href="mailto:bbuehler@centrewellington.ca">bbuehler@centrewellington.ca</a>  Mayor Kelly Linton <a href="mailto:mayor@centrewellington.ca">mayor@centrewellington.ca</a>  Councillor Ian MacRae (Ward 1) <a href="mailto:ianmacrae@ianmacrae.org">ianmacrae@ianmacrae.org</a>		Emailed 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
<b>Elora BIA</b> P.O. Box 2903 ELORA, Ontario N0B 1S0	<a href="mailto:elorabia@wightman.ca">elorabia@wightman.ca</a>		Mailed (Regular Mail) and Emailed 06/09/2022
190 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0			Hand Delivered 06/09/2022
200 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0			Hand Delivered 06/09/2022
<b>Wellington Source Water Protection</b> 7444 Wellington Road 21 <b>ELORA</b> , Ontario N0B 1S0	Kyle Davis Risk Management Official <a href="mailto:kdavis@centrewellington.ca">kdavis@centrewellington.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
<b>Lake Erie Source Protection Region</b> 400 Clyde Road, PO Box 729 <b>CAMBRIDGE</b> , ON N1R 5W6	Martin Keller Source Protection Program Manager <a href="mailto:mkeller@grandriver.ca">mkeller@grandriver.ca</a>	Electronic copy of Project File Report (on USB Drive) included with mailed Notice.	Mailed (Registered Mail) and Emailed 06/09/2022
210 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
180 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
176 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
170 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
169 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
179 Victoria Crescent <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
200 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
217 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
211 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
209 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
201 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
197 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
181 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
176 Smith Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022



Stakeholder	Contact Information	Notes	Mail Out or Email
36 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
39 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
35 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
33 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
24 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
25 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
17 Henderson Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
107 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
108 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022
98 James Street <b>ELORA</b> , Ontario N0B 1S0	Resident		Hand Delivered 06/09/2022





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: [info@tritoneng.on.ca](mailto:info@tritoneng.on.ca)

ORANGEVILLE • FERGUS • HARRISTON

June 9, 2022

**Bell Aliant**  
21 First Avenue  
**ORANGEVILLE**, Ontario  
L9W 1H7

**NOC Letter Template to Residents and Utilities**

Attention: Neil Ackerman  
Implementation Manager, Network Provisioning  
[Neil.ackerman1@bell.ca](mailto:Neil.ackerman1@bell.ca)

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

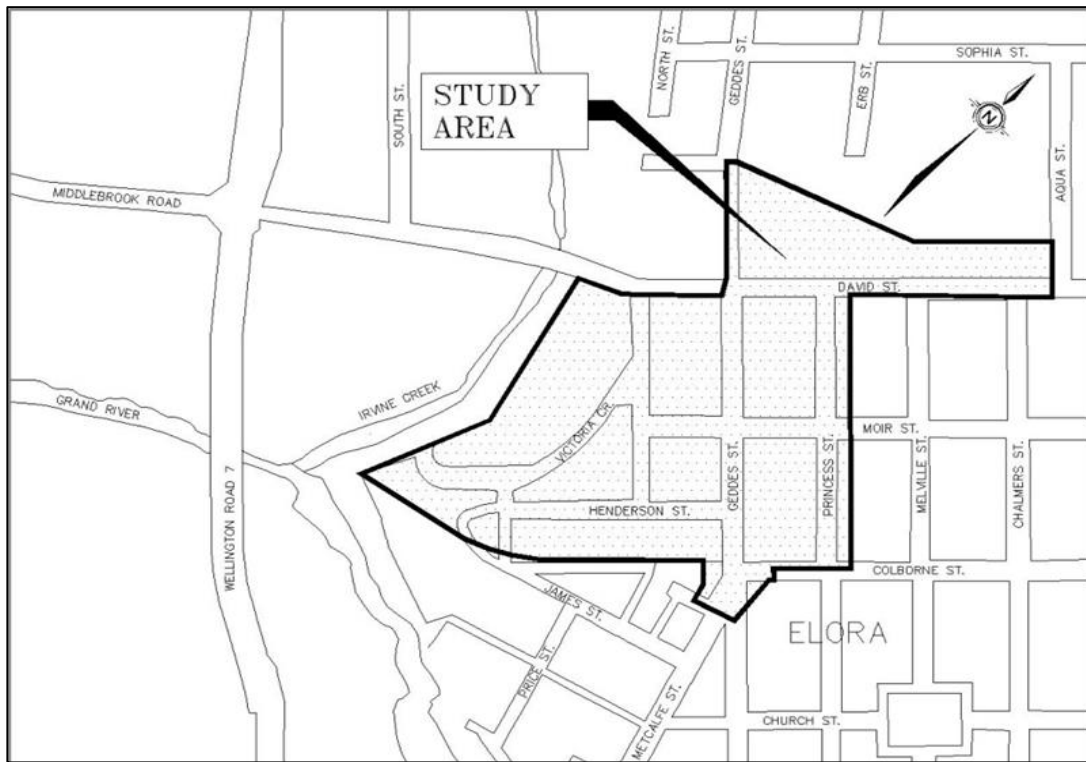
Dear Neil,

On behalf of the Township of Centre Wellington, Triton Engineering Services Limited has completed a Schedule 'B' Class Environmental Assessment (Class EA) to review the alternatives for the existing trunk storm sewer servicing the Study Area (illustrated on the key plan on the next page) to address the poor condition of the pipe and to meet the minimum depth, sizing and grade requirements to service the existing drainage area and planned future growth. The trunk storm sewer is located between Victoria Crescent and the existing outfall at Irvine Creek, within the Study Area.

The attached Notice of Completion, which is also advertised on the Township's website and in the Wellington Advertiser Newspaper, provides details of the Class EA and the associated Project File Report. Subject to additional comments or concerns received as a result of the attached Notice of Completion and upon receipt of necessary regulatory approvals, the Township intends to proceed with the design and implementation of the project, which is to construct a new trunk storm sewer from Victoria Crescent to the existing outfall at Irvine Creek along a new alignment, and to decommission and abandon the existing trunk storm sewer in place.

As per the attached Notice, comments or concerns with the Class EA, should be addressed to the Township and Triton Engineering Services Limited by July 10, 2022.





This Notice has been circulated to appropriate government agencies, other stakeholders and residents in the vicinity of the Study Area. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/sjp

Encl: Class EA Notice of Completion

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington





Centre Wellington

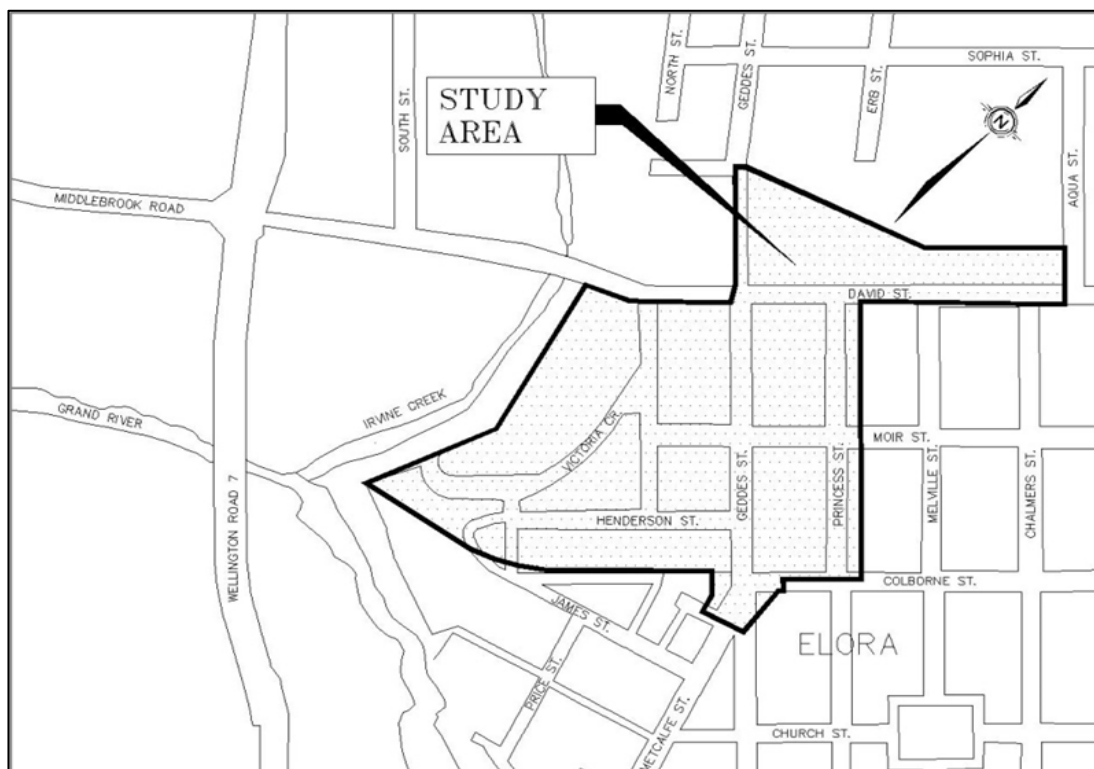
June 9, 2022

## NOC Letter Template to Indigenous Communities

Haudenosaunee Confederacy Chief's Council  
c/o Haudenosaunee Development Institute  
P.O. Box 714  
Oshweken, On  
NOA 1M0

**Re: Township of Centre Wellington, Municipal Class Environmental Assessment,  
Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
Notice of Completion**

The Township of Centre Wellington (Township) conducted a review of alternatives for the existing trunk storm sewer servicing the Study Area (illustrated on the key plan below) to address the poor condition of the pipe and to meet the minimum depth, sizing and grade requirements to service the existing drainage area and planned future growth. The trunk storm sewer is located between Victoria Crescent and the existing outfall at Irvine Creek, within the Study Area.





The project was planned in accordance with the requirements of a Schedule B undertaking of the Municipal Class Environmental Assessment (MCEA) process (October 2000, and as amended in 2007, 2011 and 2015). Through consultation with Agencies, Members of the Public, and Indigenous Communities, **the preferred alternative is to construct a new trunk storm sewer from Victoria Crescent to the existing outfall at Irvine Creek along a new alignment, and to decommission and abandon the existing trunk storm sewer in place.**

A Project File Report has been prepared to document the planning and decision-making process for this Municipal Class Environmental Assessment Study. A copy of the Project File Report is being placed on the public record for a 30-day review period from June 9 to July 10, 2022. The Project File Report is available for review on the Township's website at: <https://www.centrewellington.ca/en/living-here/environmental-assessments.aspx>

If you have any questions, comments or concerns regarding this study, please contact one of the Project Team members below by July 10, 2022:

**Adam Gilmore, M.A.Sc., P.Eng.**

Manager of Engineering  
Township of Centre Wellington  
1 MacDonald Square, Elora, ON N0B 1S0  
519-846-9691 x 301  
[agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca)

**Paul Ziegler, C.E.T.**

Consultant Project Manager  
Triton Engineering Services Limited  
105 Queen Street West, Unit 14, Fergus ON N1M 1S6  
519-843-3920  
[pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

We recognize the importance of consultation with the Haudenosaunee Confederacy as part of this MCEA Study. Should you prefer to discuss the Study findings directly with the Project Team, a virtual meeting can be arranged by contacting the Project Team members listed above.

In addition, a request may be made to the Ministry of Environment, Conservation and Parks for an order requiring a higher level of study, or that conditions may be imposed, only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Request on other grounds will not be considered. Requests should include the requesters contact information and full name for the ministry.

*Comments submitted to the Township of Centre Wellington for the purpose of providing feedback regarding this Municipal Class Environmental Assessment are collected under the authority of the Environmental Assessment Act. 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. Questions relating to the collection, use and disclosure of this information may be addressed to Adam Gilmore, Manager of Engineering at 519-846-9691 x301 or [agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca).*

**Sincerely,**



Adam Gilmore, M.A.Sc., P.Eng.  
Manager of Engineering  
Township of Centre Wellington





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: [info@tritoneng.on.ca](mailto:info@tritoneng.on.ca)

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

June 9, 2022

### **NOC Letter Template to Agencies**

Ministry of Environment, Conservation and Parks  
Environmental Assessment and Approvals Branch (EAAB)  
135 St. Clair Avenue West, 1<sup>st</sup> Floor  
Toronto, Ontario M4V 1P5

Attention: Director, Class EAs and Declaration Section  
[EABDirector@ontario.ca](mailto:EABDirector@ontario.ca)

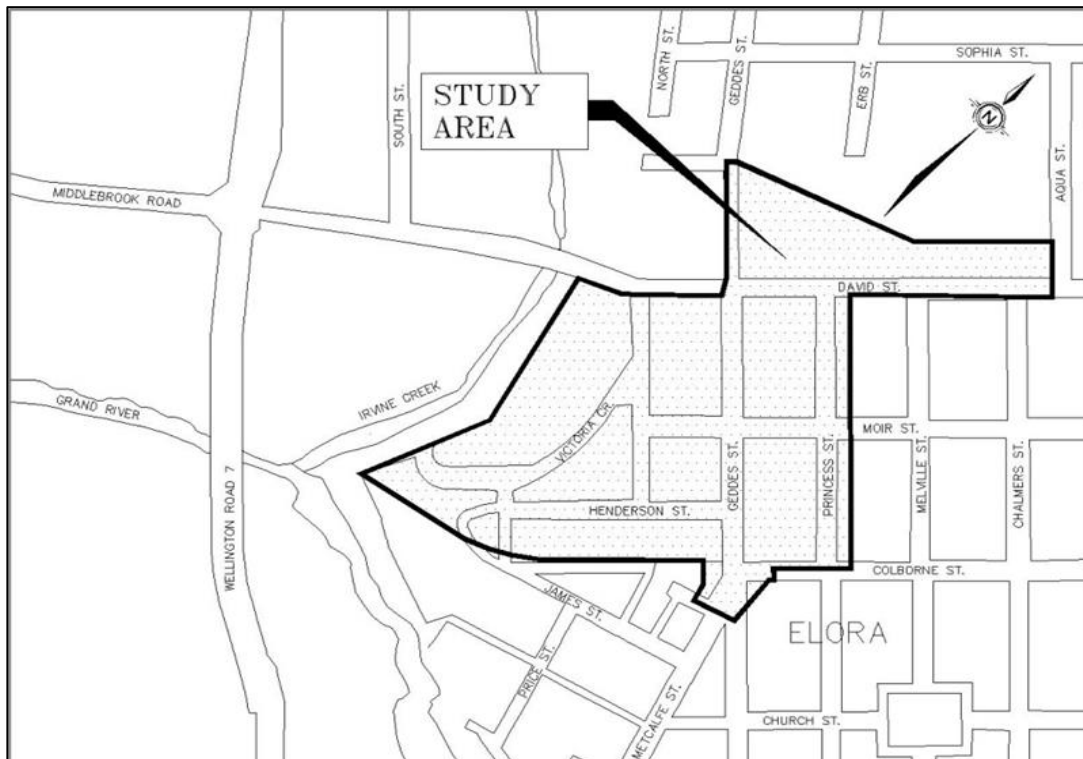
RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear Director,

On behalf of the Township of Centre Wellington, Triton Engineering Services Limited has completed a Schedule 'B' Class Environmental Assessment (Class EA) to review the alternatives for the existing trunk storm sewer servicing the Study Area (illustrated on the key plan below) to address the poor condition of the pipe and to meet the minimum depth, sizing and grade requirements to service the existing drainage area and planned future growth. The trunk storm sewer is located between Victoria Crescent and the existing outfall at Irvine Creek, within the Study Area.

The attached Notice of Completion, which is also advertised on the Township's website and in the Wellington Advertiser Newspaper, provides details of the Class EA and the associated Project File Report. An electronic copy of the Project File Report is attached to this Notice, on USB drive. Subject to additional comments or concerns received as a result of the attached Notice of Completion and upon receipt of necessary regulatory approvals, the Township intends to proceed with the design and implementation of the project, which is to construct a new trunk storm sewer from Victoria Crescent to the existing outfall at Irvine Creek along a new alignment, and to decommission and abandon the existing trunk storm sewer in place.





As per the attached Notice, comments or concerns with the Class EA, should be addressed to the Township and Triton Engineering Services Limited by July 10, 2022.

This Notice has been circulated to appropriate government agencies, other stakeholders and residents in the vicinity of the Study Area. If you have any questions or concerns, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/sjp

Encl: Class EA Notice of Completion  
Project File Report (electronic copy on USB Drive)

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington



M6186A

Victoria Crescent Trunk Storm Sewer Evaluation Municipal Class EA

Summary of Correspondence Regarding the NOC

<b>Comment #</b>	<b>Respondent</b>	<b>Date</b>	<b>Comment</b>	<b>Response/Action</b>
1.	Elora Resident #1	06-13-2022	<ul style="list-style-type: none"><li>• Provided questions regarding the timing of the project, the traceability of the decision matrix, cultural heritage landscape and associated consultations, social environment, economic environment, and documented evidence of deterioration.</li><li>• Provided clarification regarding the project background, specifically regarding the catchbasin on Victoria Crescent upstream of the trunk storm sewer and the views of owners of 190 and 200 Victoria Crescent regarding the project.</li></ul>	<ul style="list-style-type: none"><li>• Provided responses, referring to specific sections of the Project File Report where the information was presented and acknowledged clarifications regarding the background information.</li></ul>
2.	Elora Resident #2	06-22-2022	<ul style="list-style-type: none"><li>• Requested a copy of the Environmental Impact Assessment for the Project</li><li>• Requested a copy of the Checklist of Criteria for Evaluating Built Heritage Resources and Cultural Heritage Landscapes</li></ul>	<ul style="list-style-type: none"><li>• Provided responses, clarifying that the Scoped Environmental Impact Study will be completed during the next phase of the Project and provided reference to Appendix G of the Project File Report for a copy of the completed Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes checklist.</li></ul>
3.	Elora Resident #1	06-27-2022	<ul style="list-style-type: none"><li>• Requested additional clarifications/information regarding the project background, development of alternative solutions, decision matrix, cultural heritage landscape, and cost estimates.</li></ul>	<ul style="list-style-type: none"><li>• Provided responses, referring to previous consultation and correspondence that addressed similar/related comments, where applicable, and that some of the additional information requested (i.e., technical studies and detailed costs) is not typical to consider at the Class EA stage.</li></ul>



M6186A

Victoria Crescent Trunk Storm Sewer Evaluation Municipal Class EA

Summary of Correspondence Regarding the NOC

Comment #	Respondent	Date	Comment	Response/Action
4.	Grand River Conservation Authority (GRCA)	07-07-2022	<ul style="list-style-type: none"><li>• Indicated support of the recommendation provided in the Project File Report.</li><li>• Provided requirements for the Scoped EIS that will need to be completed to support the required permit for construction of the project.</li><li>• Provided that an erosion and sediment control plan and site restoration/landscaping plans will be required at the permitting stage.</li><li>• Provided advisory comments regarding consultation considerations for the next phase of the project.</li></ul>	<ul style="list-style-type: none"><li>• Responded to acknowledge receipt of the comments, indicating that the Terms of Reference for a Scoped Environmental Impact Study would be finalized in consultation with GRCA during the next phase of the project (detailed design).</li></ul>
5.	Ministry of the Environment, Conservation and Parks (MECP)	07-07-2022	<ul style="list-style-type: none"><li>• Provided instructions to continue consulting with Indigenous Communities, request to update various sections of the Project File Report, including the list of potential impacts from construction; updating Appendix L with responses to the Notice of Completion, and other minor changes, including acronyms and agency references.</li><li>• Also provided direction for considerations during detailed design and construction.</li></ul>	<ul style="list-style-type: none"><li>• Responded to acknowledge receipt of the comments, noting the considerations for the next phase of the project.</li><li>• The Project File Report was revised per MECP's comments and the Township's website was updated with a copy of the Final Project File Report.</li></ul>
6.	MTCS	07-08-2022	<ul style="list-style-type: none"><li>• Provided direction on the next phase of the project, specifically in regards to Archaeological Resources and Built Heritage Resources and Cultural Heritage Landscapes.</li><li>• Provided comments recommending revisions to the Project File Report and appendices for sections regarding the Cultural Heritage Environment.</li></ul>	<ul style="list-style-type: none"><li>• Responded to acknowledge receipt of the comments, noting considerations for the next phase of the project.</li><li>• The Project File Report was revised per MTCS's comments and the Township's website was updated with a copy of the Final Project File Report.</li></ul>



M6186A

Victoria Crescent Trunk Storm Sewer Evaluation Municipal Class EA

Summary of Correspondence Regarding the NOC

<b>Comment #</b>	<b>Respondent</b>	<b>Date</b>	<b>• Comment</b>	<b>• Response/Action</b>
7.	MECP	07-13-2022	<ul style="list-style-type: none"><li>• Provided comments related to source water protection.</li></ul>	<ul style="list-style-type: none"><li>• Responded to acknowledge receipt of the comments, noting considerations for the next phase of the project.</li><li>• The Project File Report was revised per MECP's comments and the Township's website was updated with a copy of the Final Project File Report.</li></ul>
8.	MTCS	07-21-2022	<ul style="list-style-type: none"><li>• Acknowledged receipt of responses to comments.</li><li>• Confirmed that MECP has no further comments.</li></ul>	<ul style="list-style-type: none"><li>• Added correspondence to the Project File Report.</li></ul>
9.	MECP	07-28-2022	<ul style="list-style-type: none"><li>• Acknowledged receipt of responses to comments.</li><li>• Confirmed that MECP has no further comments.</li></ul>	<ul style="list-style-type: none"><li>• Added correspondence to the Project File Report.</li></ul>



---

**From:** [REDACTED]  
**Sent:** June 13, 2022 11:05 AM  
**To:** pzeigler@tritoneng.on.ca  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca> [REDACTED]  
**Subject:** Victoria Storm Trunk Sewer

You don't often get email from [REDACTED] [Learn why this is important](#)

Hello Paul,

Re: Victoria Storm Trunk Sewer

I am co-owner of 200 Victoria Crescent in Elora. I will be taking the opportunity to provide comments on the proposed solution for the Victoria Storm Trunk Sewer.

Before doing so, may I have your input on the questions herein please? Your reply will assist me in preparing my response on an informed basis.

### **The Announced Storm Water Management Study**

Why is this project being advanced now before the results of the recently announced storm water management study are known? Will best practices that will presumably be identified in that study be applied to the evaluation of the alternatives within your report?

### **The Decision Matrix Traceability**

I have the following general questions:



1. Who designed the matrix?
2. Has it been approved by the Township Council (when, if so)?
3. Who completes the matrix – how many Triton staff and what is the review process within Triton?
4. What is the review process with Township staff therein?
5. How are the weightings of the environment criteria assigned?
6. May I see the underlying analysis therein?
7. How are the impact criteria weightings assigned?
8. May I see the underlying analysis therein?

### **Cultural Heritage Landscape and Consultations**

I understand that a consultant has advised that there is no heritage/cultural impact to the replacement of a storm trunk sewer and that your report relies on that assertion. It seems to me this should not be viewed as a replacement. It is an opportunity to redirect flow into the Irvine Gorge and that must be a separate consideration in and of itself. Seemingly this would have significant impact on the thousands of people who access the Gorge via the Township's access point a few metres away and who travel along the boundary walls. So, significantly differentiated weightings might apply.

May I have clarification as to the considerations that were taken regarding the fact that two of the alternatives would remove the directing of storm water into the Irvine Gorge (at least at its current location)? In short, was the analysis a zero-sum analysis with all options being treated equally? Access? Enjoyment? Safety? May I see that analysis please?

I note public notice was duly delivered. May I ask if efforts were made to identify and reach out to organizers of recreational user groups in this regard - slackliners, ice climbers, rafters, photographers, etc. and which groups if so?

### **Social Environment**

Have the safety and privacy concerns of the property owners been considered? May I see the analysis therein that speaks to the impact on them of opening up landscaping and screening that is currently in place?

### **Economic Environment**

May I see a cost analysis of each alternative please? I would like sufficient detail to understand the comparative analysis and also to understand what comprises capital costs.

Did your analysis consider the economic impact on the property owners? And the township – easements, etc.?

### **Documented Evidence of Deterioration**

I have three questions here – and two clarifications regarding representations in the report.

The questions:

1. Am I correct that the deterioration is primarily at the head of the storm trunk sewer due to the gas line crossing the sewer line?
2. Am I correct that the line as it exists would be sufficient if it only had to support the run off entering the depression in front of 190/200 Victoria and not bear the redirection of storm water from further upstream?
3. The report indicates that efforts have been made to establish a registered easement of the currently unregistered easement. I am unaware of this. Would you please provide details as to timing and which representatives/owners have been involved?

The clarifications:

1. The last paragraph of 3.1 appears to contain a misrepresentation. Specifically, the concern of the owners of 200 Victoria Crescent in 2013 was that the grate to allow gutter entrance into the storm trunk sewer was on the sidewalk (quickly becoming blocked with leaves etc. allowing water to run onto the property). That was a flaw in



initial design issue, resolved with the placement of a grate on the roadway. There have been no issues in the 9 years since this simple change was made.

2. The report creates the impression that the owners of 190/200 Victoria Crescent were requesting that the existing storm trunk sewer not be replaced or repaired in the interest of tree protection – and that the proposed solution addresses that concern. It does not.

Thank you in advance for sharing the requested information. It will be helpful in my preparation of an informed response to the study material that has been provided to date. Kind regards, [REDACTED]



**From:** Adam Gilmore <AGilmore@centrewellington.ca>  
**Date:** June 21, 2022 at 10:50:58 AM EDT  
**To:** Paul Ziegler <PZiegler@tritoneng.on.ca>  
**Cc:** [REDACTED] Dan Wilson <dwilson@centrewellington.ca>, Colin Baker <CBaker@centrewellington.ca>, Brandon Buehler <BBuehler@centrewellington.ca>  
**Subject:** RE: Victoria Storm Trunk Sewer

Hello [REDACTED] ,

My name is Adam Gilmore, I'm the Manager of Engineering here at the Township. I don't believe we have met before.

To add to the letter response provided by Triton this morning, we would be happy to meet with you if you have any further questions about the Municipal Class EA study. Please let me know if you would like to meet and we can set something up.

Kind regards,  
Adam

Adam Gilmore, M.A.Sc., P.Eng. | Manager of Engineering

Township of Centre Wellington | 1 MacDonald Square, Elora, ON N0B 1S0  
519.846.9691 x301 [centrewellington.ca](http://centrewellington.ca)

**Office located at:** 7444 Wellington Road 21, Elora, ON N0B 1S0

---

**From:** Paul Ziegler <PZiegler@tritoneng.on.ca>  
**Sent:** June 21, 2022 10:25 AM  
**To:** [REDACTED]  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; [REDACTED]  
**Subject:** RE: Victoria Storm Trunk Sewer

Hi [REDACTED], Please see attached response to your email.

Paul



Paul Ziegler, C.E.T.



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** [REDACTED]  
**Sent:** Monday, June 13, 2022 1:47 PM  
**To:** Paul Ziegler <[PZiegler@tritoneng.on.ca](mailto:PZiegler@tritoneng.on.ca)>  
**Subject:** Fwd: Victoria Storm Trunk Sewer

Paul, resubmitting below to the corrected email address. My apologies for the mistype in the original email address. Kind regards, [REDACTED]

----- Forwarded message -----

**From:** [REDACTED]  
**Date:** Mon, Jun 13, 2022 at 11:05 AM  
**Subject:** Victoria Storm Trunk Sewer  
**To:** <[pzeigler@tritoneng.on.ca](mailto:pzeigler@tritoneng.on.ca)>  
**Cc:** Adam Gilmore <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>, [REDACTED]

Hello Paul,

Re: Victoria Storm Trunk Sewer

I am co-owner of 200 Victoria Crescent in Elora. I will be taking the opportunity to provide comments on the proposed solution for the Victoria Storm Trunk Sewer.

Before doing so, may I have your input on the questions herein please? Your reply will assist me in preparing my response on an informed basis.

### **The Announced Storm Water Management Study**

Why is this project being advanced now before the results of the recently announced storm water management study are known? Will best practices that will presumably be identified in that study be applied to the evaluation of the alternatives within your report?

### **The Decision Matrix Traceability**

I have the following general questions:

1. Who designed the matrix?
2. Has it been approved by the Township Council (when, if so)?
3. Who completes the matrix – how many Triton staff and what is the review process within Triton?
4. What is the review process with Township staff therein?
5. How are the weightings of the environment criteria assigned?
6. May I see the underlying analysis therein?
7. How are the impact criteria weightings assigned?
8. May I see the underlying analysis therein?



## **Cultural Heritage Landscape and Consultations**

I understand that a consultant has advised that there is no heritage/cultural impact to the replacement of a storm trunk sewer and that your report relies on that assertion. It seems to me this should not be viewed as a replacement. It is an opportunity to redirect flow into the Irvine Gorge and that must be a separate consideration in and of itself. Seemingly this would have significant impact on the thousands of people who access the Gorge via the Township's access point a few metres away and who travel along the boundary walls. So, significantly differentiated weightings might apply.

May I have clarification as to the considerations that were taken regarding the fact that two of the alternatives would remove the directing of storm water into the Irvine Gorge (at least at its current location)? In short, was the analysis a zero-sum analysis with all options being treated equally? Access? Enjoyment? Safety? May I see that analysis please?

I note public notice was duly delivered. May I ask if efforts were made to identify and reach out to organizers of recreational user groups in this regard - slackliners, ice climbers, rafters, photographers, etc. and which groups if so?

## **Social Environment**

Have the safety and privacy concerns of the property owners been considered? May I see the analysis therein that speaks to the impact on them of opening up landscaping and screening that is currently in place?

## **Economic Environment**

May I see a cost analysis of each alternative please? I would like sufficient detail to understand the comparative analysis and also to understand what comprises capital costs.

Did your analysis consider the economic impact on the property owners? And the township – easements, etc.?

## **Documented Evidence of Deterioration**

I have three questions here – and two clarifications regarding representations in the report.

The questions:

1. Am I correct that the deterioration is primarily at the head of the storm trunk sewer due to the gas line crossing the sewer line?
2. Am I correct that the line as it exists would be sufficient if it only had to support the run off entering the depression in front of 190/200 Victoria and not bear the redirection of storm water from further upstream?
3. The report indicates that efforts have been made to establish a registered easement of the currently unregistered easement. I am unaware of this. Would you please provide details as to timing and which representatives/owners have been involved?

The clarifications:

1. The last paragraph of 3.1 appears to contain a misrepresentation. Specifically, the concern of the owners of 200 Victoria Crescent in 2013 was that the grate to allow gutter entrance into the storm trunk sewer was on the sidewalk (quickly becoming blocked with leaves etc. allowing water to run onto the property). That was a flaw in initial design issue, resolved with the placement of a grate on the roadway. There have been no issues in the 9 years since this simple change was made.



2. The report creates the impression that the owners of 190/200 Victoria Crescent were requesting that the existing storm trunk sewer not be replaced or repaired in the interest of tree protection – and that the proposed solution addresses that concern. It does not.

Thank you in advance for sharing the requested information. It will be helpful in my preparation of an informed response to the study material that has been provided to date. Kind regards,

\_\_\_\_\_





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

June 20, 2022

██████████  
200 Victoria Crescent  
ELORA, Ontario  
N0B 1S0

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear ██████████,

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your email dated June 13, 2022 presenting your questions regarding the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA"). We have noted your questions listed in your email and can provide the following responses:

### **The Announced Storm Water Management Study**

*"Why is this project being advanced now before the results of the recently announced storm water management study are known? Will best practices that will presumably be identified in that study be applied to the evaluation of the alternatives within your report?"*

#### **Response**

As per Section 3.1 and Appendix B of the Project File Report for the Class EA, Triton completed a technical servicing review of the adequacy of the storm outlet discharging to Irvine Creek from the Victoria Crescent trunk storm sewer. The review identifies short and long-range planning recommendations to improve stormwater management (SWM) infrastructure contributing to this outlet, including recommendations for the trunk storm sewer.

The purpose of the SWM Master Plan is to understand how the existing stormwater management infrastructure is functioning, identify capacity constraints, evaluate opportunities to improve water quality, and inform short and long-range planning to improve the Township's stormwater management infrastructure. The SWM Master Plan will consider information presented within and the results of the Class EA in its collection of background information and review of existing conditions.



## **The Decision Matrix Traceability**

- “1. Who designed the matrix?*
- 2. Has it been approved by the Township Council (when, if so)?*
- 3. Who completes the matrix – how many Triton staff and what is the review process within Triton?*
- 4. What is the review process with Township staff therein?*
- 5. How are the weightings of the environment criteria assigned?*
- 6. May I see the underlying analysis therein?*
- 7. How are the impact criteria weightings assigned?*
- 8. May I see the underlying analysis therein?”*

### Response

The Class EA, including the decision matrix, was completed by Triton, in partnership with the Township. The Class EA decision making process was completed in accordance with Schedule ‘B’ of the Municipal Class Environmental Assessment (MCEA) Study process (October 2000, as amended). Refer to Section 6.0 of the Project File Report for details regarding the evaluation of alternative solutions. A summary of the alternatives evaluation decision matrix is provided in Table 3 of the Project File Report and the detailed decision matrix is provided in Appendix I of the Project File Report.

## **Cultural Heritage Landscape and Consultations**

*“I understand that a consultant has advised that there is no heritage/cultural impact to the replacement of a storm trunk sewer and that your report relies on that assertion. It seems to me this should not be viewed as a replacement. It is an opportunity to redirect flow into the Irvine Gorge and that must be a separate consideration in and of itself. Seemingly this would have significant impact on the thousands of people who access the Gorge via the Township’s access point a few metres away and who travel along the boundary walls. So, significantly differentiated weightings might apply.*

*May I have clarification as to the considerations that were taken regarding the fact that two of the alternatives would remove the directing of storm water into the Irvine Gorge (at least at its current location)? In short, was the analysis a zero-sum analysis with all options being treated equally? Access? Enjoyment? Safety? May I see that analysis please?*

*I note public notice was duly delivered. May I ask if efforts were made to identify and reach out to organizers of recreational user groups in this regard - slackliners, ice climbers, rafters, photographers, etc. and which groups if so?”*

### Response

As described in Section 3.3 of the Project File Report, five alternative solutions were considered. Alternatives 4A and 4B include the decommissioning and abandonment of the existing trunk storm sewer and outlet structure and installation of new stormwater infrastructure, including a new trunk storm sewer and new outlet structure to be established through the bank of Irvine Creek in a new location. Refer to Section 6.0 of the Project File Report for details regarding the evaluation of these alternative solutions. A summary of the alternatives evaluation decision matrix is provided in Table 3 of the Project File Report and the detailed decision matrix is provided in Appendix I of the Project



File Report. It should be noted that the preferred alternative will not impact the trail network given that the outlet structure underlying the trail does not need to be replaced, and access should be maintained during construction.

Details of the consultation program for the Class EA are provided in Section 7 of the Project File Report. The Notice of Commencement, Notice of Public Information Centre and Notice of Completion were advertised to the public in the free press weekly newspaper (Wellington Advertiser) that is distributed throughout Wellington County. These notices were also posted on the Township's website. Both methods of advertisement served as public information and to solicit feedback from potentially interested stakeholders and encourage participation in the decision-making process. Copies of the distribution lists for the Notice of Commencement, Notice of Public Information Centre and Notice of Completion are provided in Appendices J, K, and L, respectively, of the Project File Report.

Further, as per Section 7.3 of the Project File Report, a Public Information Centre (PIC) was held on November 29, 2017 to present details of the Class EA to interested stakeholders and receive feedback for consideration in the Class EA. PIC presentation materials and related correspondence are provided in Appendix K of the Project File Report.

As per Section 7.4 of the Project File Report, and as identified in the Notice of Completion, the Project File Report has been filed for public review on the Township's website and hardcopy at the Township office.

## **Social Environment**

*"Have the safety and privacy concerns of the property owners been considered? May I see the analysis therein that speaks to the impact on them of opening up landscaping and screening that is currently in place?"*

### **Response**

Please refer to Section 6.0 of the Project File Report for details regarding the evaluation of alternative solutions. A summary of the evaluation decision matrix, including impact to property and the social environment, is provided in Table 3 of the Project File Report.

## **Economic Environment**

*"May I see a cost analysis of each alternative please? I would like sufficient detail to understand the comparative analysis and also to understand what comprises capital costs.*

*Did your analysis consider the economic impact on the property owners? And the township – easements, etc.?"*

### **Response**

Please refer to Section 5.5 and Appendix I of the Project File Report, which provides details regarding the EA Study-level estimated costs associated with the implementation of each of the alternative solutions considered.



## Documented Evidence of Deterioration

### *“Questions:*

- 1. Am I correct that the deterioration is primarily at the head of the storm trunk sewer due to the gas line crossing the sewer line?*
- 2. Am I correct that the line as it exists would be sufficient if it only had to support the run off entering the depression in front of 190/200 Victoria and not bear the redirection of storm water from further upstream?*
- 3. The report indicates that efforts have been made to establish a registered easement of the currently unregistered easement. I am unaware of this. Would you please provide details as to timing and which representatives/owners have been involved?*

### *Clarifications:*

- 1. The last paragraph of 3.1 appears to contain a misrepresentation. Specifically, the concern of the owners of 200 Victoria Crescent in 2013 was that the grate to allow gutter entrance into the storm trunk sewer was on the sidewalk (quickly becoming blocked with leaves etc. allowing water to run onto the property). That was a flaw in initial design issue, resolved with the placement of a grate on the roadway. There have been no issues in the 9 years since this simple change was made.*
- 2. The report creates the impression that the owners of 190/200 Victoria Crescent were requesting that the existing storm trunk sewer not be replaced or repaired in the interest of tree protection – and that the proposed solution addresses that concern. It does not. “*

### Response

As per Section 3.1 and Appendices B and C of the Project File Report, the trunk storm sewer shows evidence of deterioration between Victoria Crescent and its connection to the outlet structure. Further, as identified in Section 3.2 of the Project File Report, the Problem/Opportunity Statement identifies that this aging infrastructure in extremely poor condition has insufficient cover and does not meet the required sizing and grade requirements to provide service to the overall contributing catchment area.

In accordance with Sections 3.1 and 5.3 of the Project File Report, it is noted that on-Site meetings were held, between Township staff, Triton, and the owners of 190 and 200 Victoria Crescent in 2009 and 2014 to discuss the condition of the trunk sewer and the need for its replacement and the proposed route for the sewer reconstruction. The Class EA schedule for the Project had not been decided at the time of the meetings; however, following the last meeting, it was evident that due to the residents' concerns to their private property, a range of alternatives and supporting technical studies would be required for the Project, in accordance with a Schedule “B” undertaking of the Class EA process.

We acknowledge your clarifications and comments. In accordance with Section 10.0 of the Project File Report, *“the Proponent will consider and address comments received during the Project File public review period and incorporate a summary of the correspondence in the final Project File Report.”*



If you have other questions, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED



Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington  
\_\_\_\_\_, 200 Victoria Crescent Co-Owner





-----Original Message-----

From: [REDACTED]

Sent: Wednesday, June 22, 2022 11:53 AM

To: Paul Ziegler <PZiegler@tritoneng.on.ca>

Cc: Dan Wilson <dwilson@centrewellington.ca>; 'Ian MacRae' <ian.d.macrae@gmail.com>; [REDACTED]  
[REDACTED]

Subject: Request For a Copy of the Report of the Scoped Environmental Impact Study found in Appendix M and Dated November 2017& Other Documents

Morning Paul,

As I read the Appenices to Victoria Crescent Storm Sewer Project File Report, dated June 9, 2022, I find in Appendix M that Aboud & Associates submitted a requested fee proposal for a Propopsed Scoped Environmental Impact Study.

Please forward me an electronic copy of this Report to enable me to be fully informed prior to submitting a reply to the Project File Report by the due date of July 10, 2022.

In addition, please provide me with a copy of the completed checklist of Criteria for Evaluating Potential Built Heritage Resources and Cultural Heritage Landscapes to comply with Joseph Muller's [MTCS] recommendation in his email dated Janujary 9, 2018.

Thanks  
[REDACTED]



-----Original Message-----

From: Paul Ziegler

Sent: Thursday, June 23, 2022 10:49 AM

To: [REDACTED]

Cc: 'Adam Gilmore' <AGilmore@centrewellington.ca>; Brandon Buehler <BBuehler@centrewellington.ca>

Subject: RE: Request For a Copy of the Report of the Scoped Environmental Impact Study found in Appendix M and Dated November 2017& Other Documents

Hi [REDACTED]

1. Consistent with Section 11.0 of the Project File Report,

"Additional anticipated studies to support the design, application for permitting/approvals, and implementation of Alternative 3 include the following:

- Stage II Archaeological Assessment
- Cultural Heritage Resource Assessment
- Scoped Environmental Impact Study (EIS), refer to Appendix M for the expected requirements as per Aboud, based on consultation with GRCA."

Therefore, the proposal for the Scoped Environmental Impact Study dated November 21, 2017 by Aboud & Associates Inc., included in Appendix M of the Project File Report, will be used as/to develop the Terms of Reference for the Scoped EIS that will be completed during the next phase of the project, which includes detailed design, permitting/approvals and implementation of Alternative 3.

2. A copy of the completed Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes - A Checklist for the Non-Specialist is provided in Appendix G of the Project File Report.

Paul

Paul Ziegler, C.E.T.

Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



-----Original Message-----

From: [REDACTED]

Sent: Wednesday, June 22, 2022 11:53 AM

To: Paul Ziegler <PZiegler@tritoneng.on.ca>

Cc: Dan Wilson <dwilson@centrewellington.ca>; 'Ian MacRae' <ian.d.macrae@gmail.com>; [REDACTED]  
[REDACTED]

Subject: Request For a Copy of the Report of the Scoped Environmental Impact Study found in Appendix M and Dated November 2017& Other Documents

Morning Paul,

As I read the Appenices to Victoria Crescent Storm Sewer Project File Report, dated June 9, 2022, I find in Appendix M that Aboud & Associates submitted a requested fee proposal for a Propopsed Scoped Environmental Impact Study.

Please forward me an electronic copy of this Report to enable me to be fully informed prior to submitting a reply to the Project File Report by the due date of July 10, 2022.

In addition, please provide me with a copy of the completed checklist of Criteria for Evaluating Potential Built Heritage Resources and Cultural Heritage Landscapes to comply with Joseph Muller's [MTCS] recommendation in his email dated Janujary 9, 2018.

Thanks  
[REDACTED]



---

**From:** [REDACTED]  
**Sent:** Monday, June 27, 2022 10:05 AM  
**To:** Paul Ziegler <PZiegler@tritoneng.on.ca>; Adam Gilmore <AGilmore@centrewellington.ca>  
**Subject:** Response to questions raised re Victoria Storm Trunk Sewer Report

Hi Paul, thank you for taking the time to respond to questions raised in my June 13 email. I did read the report prior to raising those questions. In reading your reply, there are still matters to be addressed before I can formally submit comments.

Specifically:

- Is "technical service review" a defined term and/or practice?
- If so, what are the criteria to differentiate from other projects wherein new routings are recommended?
- Were the four routing options the only options considered?
- The planned study - as you know, in every exchange to date I (and my neighbours) have asked about "best practice" considerations, please present the case for foreclosing on implementing recommendations that will follow from that study by proceeding with this storm trunk sewer as there does not appear to be an immediate issue with the current routing (notwithstanding the issues noted within the report - which are not new and which do not impede current storm water flow).
- Decision matrix:- the matrix appears to be subjective, I asked to see the underlying analysis regarding rankings and weightings (this is not evident within the report). May I please see that analysis?
- Cultural, heritage, landscape: I conclude that you did not consult with the known and impact user groups I cited. Please correct my understanding if I am wrong.
- Please provide a comparative line-item cost summary for the four alternatives in support of the figures cited to Council at its May 30th meeting.
- In particular, please indicate what is included in the \$165,000 cost of the preferred solution pertaining to 1) construction, 2) easement agreements, 3) legal support for property owners, 4) landscaping, 5) testing of foundation impact (190 and 200 Victoria) and 6) indemnification (trees and foundations).
- Please also indicate the cost of filling in the existing trunk line with cement.
- Is that included within the \$165,000 figure cited for the preferred solution?
- What environmental studies have been performed in respect of long-term concrete degradation?

Once again, thank you in advance for expanding on the report in the above-noted areas. Kind regards,

[REDACTED]



**From:** Paul Ziegler  
**Sent:** Thursday, June 30, 2022 1:35 PM  
**To:** [REDACTED] Adam Gilmore  
**Cc:** Brandon Buehler  
**Subject:** RE: Response to questions raised re Victoria Storm Trunk Sewer Report  
**Attachments:** M6186A - Responses to [REDACTED] Questions Rcvd 20220627.pdf

Hi [REDACTED], Please see attached response.

Paul

Paul Ziegler, C.E.T.



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** [REDACTED]  
**Sent:** Monday, June 27, 2022 10:05 AM  
**To:** Paul Ziegler <PZiegler@tritoneng.on.ca>; Adam Gilmore <AGilmore@centrewellington.ca>  
**Subject:** Response to questions raised re Victoria Storm Trunk Sewer Report

Hi Paul, thank you for taking the time to respond to questions raised in my June 13 email. I did read the report prior to raising those questions. In reading your reply, there are still matters to be addressed before I can formally submit comments.

Specifically:

- Is "technical service review" a defined term and/or practice?
- If so, what are the criteria to differentiate from other projects wherein new routings are recommended?
- Were the four routing options the only options considered?
- The planned study - as you know, in every exchange to date I (and my neighbours) have asked about "best practice" considerations, please present the case for foreclosing on implementing recommendations that will follow from that study by proceeding with this storm trunk sewer as there does not appear to be an immediate issue with the current routing (notwithstanding the issues noted within the report - which are not new and which do not impede current storm water flow).
- Decision matrix:- the matrix appears to be subjective, I asked to see the underlying analysis regarding rankings and weightings (this is not evident within the report). May I please see that analysis?
- Cultural, heritage, landscape: I conclude that you did not consult with the known and impact user groups I cited. Please correct my understanding if I am wrong.
- Please provide a comparative line-item cost summary for the four alternatives in support of the figures cited to Council at its May 30th meeting.
- In particular, please indicate what is included in the \$165,000 cost of the preferred solution pertaining to 1) construction, 2) easement agreements, 3) legal support for property owners, 4) landscaping, 5) testing of foundation impact (190 and 200 Victoria) and 6) indemnification (trees and foundations).



- Please also indicate the cost of filling in the existing trunk line with cement.
- Is that included within the \$165,000 figure cited for the preferred solution?
- What environmental studies have been performed in respect of long-term concrete degradation?

Once again, thank you in advance for expanding on the report in the above-noted areas. Kind regards,

\_\_\_\_\_





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

June 30, 2022

200 Victoria Crescent  
ELORA, Ontario  
N0B 1S0

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear [REDACTED],

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your email dated June 27, 2022 presenting your questions regarding the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA"). We have noted your questions listed in your email and can provide the following responses, which supplements the information provided in our letter to you dated June 21, 2022:

### **Question 1**

*"Is 'technical service review' a defined term and/or practice? If so, what are the criteria to differentiate from other projects wherein new routings are recommended?"*

### **Response**

Please refer to previous consultation and correspondence regarding to similar/related comments, which we have provided responses to the best of our knowledge. There is no additional information to share in this regard.

### **Question 2**

*"Were the four routing options the only options considered?"*

### **Response**

Consistent with previous responses to similar questions/comments for this Class EA project, the alternative solutions that have been considered are based on those that are reasonable and feasible to address the Problem/Opportunity Statement. There is no additional information to share in this regard.



### **Question 3**

*“The planned study - as you know, in every exchange to date I (and my neighbours) have asked about "best practice" considerations, please present the case for foreclosing on implementing recommendations that will follow from that study by proceeding with this storm trunk sewer as there does not appear to be an immediate issue with the current routing (notwithstanding the issues noted within the report - which are not new and which do not impede current storm water flow).”*

#### **Response**

Consistent with previous consultation and correspondence, please refer to Sections 3.1 – Project Background and 3.2 – Problem/Opportunity Statement of the Project File Report. There is no additional information to share in this regard.

### **Question 4**

*“Decision matrix:- the matrix appears to be subjective, I asked to see the underlying analysis regarding rankings and weightings (this is not evident within the report). May I please see that analysis?”*

#### **Response**

Please refer to previous consultation and correspondence regarding this comment, which includes our responses to the best of our knowledge. There is no additional information to share in this regard.

### **Question 5**

*“Cultural, heritage, landscape: I conclude that you did not consult with the known and impact user groups I cited. Please correct my understanding if I am wrong.”*

#### **Response**

Please refer to previous consultation and correspondence, which includes our responses to similar/related comments, to the best of our knowledge. There is no additional information to share in this regard.

### **Question 6**

*“Please provide a comparative line-item cost summary for the four alternatives in support of the figures cited to Council at its May 30th meeting.*

*In particular, please indicate what is included in the \$165,000 cost of the preferred solution pertaining to 1) construction, 2) easement agreements, 3) legal support for property owners, 4) landscaping, 5) testing of foundation impact (190 and 200 Victoria) and 6) indemnification (trees and foundations).*

*Please also indicate the cost of filling in the existing trunk line with cement.*

*Is that included within the \$165,000 figure cited for the preferred solution?”*

#### **Response**

Consistent with previous consultation and correspondence, which includes our responses to similar/related comments, to the best of our knowledge, please refer to Section 5.5 and Appendix I of the Project File Report, which provides details regarding the EA Study-level estimated costs



associated with the implementation of each of the alternative solutions considered. Additional information is not known at this time and is not typical to consider at the Class EA stage.

**Question 7**

*“What environmental studies have been performed in respect of long-term concrete degradation?”*

**Response**

Please refer to previous consultation and correspondence regarding CCTV inspection of the concrete trunk storm sewer. Additional information is not known at this time and is not typical to consider at the Class EA stage.

If you have other questions, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED



Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington



---

**From:** Adam Gilmore <AGilmore@centrewellington.ca>  
**Sent:** Tuesday, July 5, 2022 10:30 AM  
**To:** Dan Wilson; Colin Baker  
**Cc:** Brandon Buehler; Ryan Maiden  
**Subject:** FW: Proposed July 11 meeting

Hi Dan and Colin,

See below as FYI. The [REDACTED] and [REDACTED] have rejected our meeting offer.

Thanks,  
Adam

Adam Gilmore, M.A.Sc., P.Eng. | Manager of Engineering

Township of Centre Wellington | 1 MacDonald Square, Elora, ON N0B 1S0  
519.846.9691 x301 centrewellington.ca

Office located at: 7444 Wellington Road 21, Elora, ON N0B 1S0

-----Original Message-----

From: [REDACTED]  
Sent: July 5, 2022 10:24 AM  
To: [REDACTED] ; Adam Gilmore <AGilmore@centrewellington.ca>  
Cc: [REDACTED]  
Subject: Re: Proposed July 11 meeting

[You don't often get email from [REDACTED]. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification> ]

The [REDACTED] agree.

On 2022-07-05 10:16 a.m., [REDACTED] wrote:

> Hi Adam,  
> As parties to an unwanted negotiation with the Township regarding our  
> property, we have been disadvantaged by failures to adequately respond  
> and disclose on the part of Township representatives. We will not be  
> attending meetings unless we are clear on the agenda/objective and  
> have an opportunity to review material in advance. We also reserve the  
> right to representation by counsel. We do not intend to attend on July  
> 11th. Kind regards, [REDACTED] and [REDACTED]



**From:** Ben Kissner <bkissner@grandriver.ca>  
**Sent:** Thursday, July 7, 2022 3:08 PM  
**To:** Shari Page <spage@tritoneng.on.ca>  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>; Paul Ziegler <PZiegler@tritoneng.on.ca>  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good afternoon,

GRCA has completed our review of the EA and the preferred alternative for the proposed work to improve the trunk storm sewer. I have attached the comments, and if you have any questions please contact me and I will assist however I can.

Regards,  
Ben

**Ben Kissner, M.Sc., MCIP, RPP**  
Resource Planner  
Grand River Conservation Authority

400 Clyde Road, PO Box 729  
Cambridge, ON N1R 5W6  
Office: 519-621-2763 ext. 2237  
Toll-free: 1-866-900-4722  
Fax: 519-621-4844

[www.grandriver.ca](http://www.grandriver.ca) | [Connect with us on social](#)

---

**From:** Shari Page <spage@tritoneng.on.ca>  
**Sent:** June 9, 2022 11:55 AM  
**To:** Ben Kissner <bkissner@grandriver.ca>  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.





Administration Centre: 400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6  
Phone: 519-621-2761 Toll free: 1-866-900-4722 Fax: 519-621-4844 [www.grandriver.ca](http://www.grandriver.ca)

July 7, 2022

Via email

Victoria Crescent Trunk Storm Sewer EA

Adam Gilmore  
Manager of Engineering, Township of Centre Wellington  
1 MacDonald Square,  
Elora, ON N0B 1S0

Dear Mr. Gilmore,

**Re:** Victoria Crescent Trunk Storm Sewer EA

Grand River Conservation Authority (GRCA) staff has reviewed the above-noted Environmental Assessment prepared to review the alternatives for the existing trunk storm sewer that is in need to repair or replacement.

**Documents Reviewed by Staff**

Staff have reviewed the following documents submitted with this application:

Triton Engineering Associates Ltd. 2022. Project File Report. Schedule B Municipal Class Environmental Assessment Replacement of Trunk Storm Sewer Victoria Crescent, Elora.

**GRCA Comments**

GRCA has reviewed the completed EA and we provide the following comments:

1. GRCA supports the recommendation provided in the report, the preferred alternative is supported.
2. The GRCA requests the completion of a Scoped EIS that fully addresses GRCA policies for the administration of Ontario Regulation 150-06 in support of the required permit if the project proceeds to construction.
3. The EIS report should consider and integrate the findings and recommendations of the slope stability assessment. The EIS report should include or make reference to detailed construction plans. Also, the need for water diversion and/or dewatering plans should be confirmed in the EIS report.
4. A detailed erosion and sediment control plan and site restoration/landscaping plans will be required at the permitting stage.



### **Advisory Comments**

5. It is recommended that Fisheries and Oceans Canada (DFO) and/or Ministry of Environment Conservation and Parks (MECP) be consulted to confirm permitting requirements under the federal Species At Risk Act and provincial Endangered Species Act, respectively. No in water work is recommended between October 1 and June 30.
6. Please be advised that the GRCA owns land (James Street Park) which could potentially be impacted by the preferred alternative. Consultation with GRCA property staff is recommended if an alternate route is to be considered.

Should you have any questions, please contact Ben Kissner [bkissner@grandriver.ca](mailto:bkissner@grandriver.ca) or 519-621-2763 ext. 2237.

Sincerely,

A handwritten signature in cursive script, appearing to read "F. Natolochny".

Fred Natolochny, MCIP, RPP  
Supervisor of Resource Planning - North & South, Resource Planning  
Grand River Conservation Authority

cc: Paul Ziegler, Triton Engineering Services Limited.





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

July 14, 2022

Fred Natolochny, MCIP, RPP  
Supervisor of Resource Planning – North & South, Resource Planning  
Grand River Conservation Authority  
400 Clyde Road, P.O. Box 729  
CAMBRIDGE, Ontario  
N1R 5W6

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear Fred,

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your letter dated July 7, 2022, received by email, presenting your comments regarding the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA"). We have noted your comments provided in your letter and can provide the following responses:

### **GRCA Comments**

#### **Comment 1**

*GRCA supports the recommendation provided in the report, the preferred alternative is supported.*

#### **Response**

Noted.



## **Comment 2**

*The GRCA requests the completion of a Scoped EIS that fully addresses GRCA policies for the administration of Ontario Regulation 150-06 in support of the required permit if the project proceeds to construction.*

### **Response**

Noted. The Terms of Reference for the Scoped EIS will be finalized in consultation with GRCA during the next phase of the project (detailed design).

## **Comment 3**

*The EIS report should consider and integrate the findings and recommendations of the slope stability assessment. The EIS report should include or make reference to detailed construction plans. Also, the need for water diversion and/or dewatering plans should be confirmed in the EIS report.*

### **Response**

Noted. Refer to Response to Comment 2.

## **Comment 4**

*A detailed erosion and sediment control plan and site restoration/landscaping plans will be required at the permitting stage.*

### **Response**

Noted.

## **Advisory Comments**

## **Comment 5**

*It is recommended that Fisheries and Oceans Canada (DFO) and/or Ministry of Environment Conservation and Parks (MECP) be consulted to confirm permitting requirements under the federal Species at Risk Act and provincial Endangered Species Act, respectively. No in water work is recommended between October 1 and June 30.*

### **Response**

Noted.



**Comment 6**

*Please be advised that the GRCA owns land (James Street Park) which could potentially be impacted by the preferred alternative. Consultation with GRCA property staff is recommended if an alternate route is to be considered.*

**Response**

Noted.

If you have further Comments, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

A handwritten signature in blue ink, appearing to read 'DJS' with a stylized flourish.

Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington  
Ben Kissner, Grand River Conservation Authority



---

**From:** Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>

**Sent:** July 7, 2022 4:38 PM

**To:** Adam Gilmore <AGilmore@centrewellington.ca>; pziegler@tritoneng.on.ca

**Cc:** Shari Page <spage@tritoneng.on.ca>; Potter, Katy (MECP) <Katy.Potter@ontario.ca>

**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

You don't often get email from [joan.delvillarcuicas@ontario.ca](mailto:joan.delvillarcuicas@ontario.ca). [Learn why this is important](#)

Good afternoon,

Thank you for circulating the Notice of Completion and providing the ministry with an opportunity to comment on the Project file Report for the Township of Centre Wellington Class EA, Replacement of Trunk Storm Sewer, Victoria Crescent in Elora, Ontario. Please find attached our comments for your consideration.

Please note, comments from our Source Water Protection Unit will be sent separately next week.

Should you or any members of your project team have any questions regarding the material above, please contact me.

Regards,

**Joan Del Villar Cuicas** (she/her)

Regional Environmental Planner (A)

Project Review Unit | Environmental Assessment Branch



---

**From:** Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>

**Sent:** Thursday, June 9, 2022 11:44 AM

**To:** EA Notices to WCRegion (MECP) <[eanotification.wcregion@ontario.ca](mailto:eanotification.wcregion@ontario.ca)>

**Cc:** Adam Gilmore <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' (<[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>)

**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



**Ministry of the Environment,  
Conservation and Parks**

**Ministère de l'Environnement,  
de la Protection de la nature  
et des Parcs**

Environmental Assessment  
Branch

Direction des évaluations  
environnementales

1<sup>st</sup> Floor  
135 St. Clair Avenue W  
Toronto ON M4V 1P5  
**Tel.:** 416 314-8001  
**Fax.:** 416 314-8452

Rez-de-chaussée  
135, avenue St. Clair Ouest  
Toronto ON M4V 1P5  
**Tél. :** 416 314-8001  
**Téléc. :** 416 314-8452

July 7, 2022

Adam Gilmore  
Manager of Engineering  
Township of Centre Wellington  
Email: [agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca)

(Via Email Only)

Paul Ziegler  
Project Manager  
Triton Engineering Services Limited  
Email: [pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

**Re: Replacement of Trunk Storm Sewer Victoria Crescent, Elora, Ontario  
Township of Centre Wellington  
Municipal Class Environmental Assessment – Schedule B  
Project File Report  
Project Review Unit Comments**

Dear Adam Gilmore and Paul Ziegler,

This letter is in response to the Notice of Study Completion provided for the Project File Report (Report) of the above-noted Class Environmental Assessment (EA) project. Our understanding is that in order to address the severe deterioration of stormwater infrastructure namely the trunk storm sewer located between Victoria Crescent and the outlet to Irvine Creek, in the former village of Elora. The Township of Centre Wellington (the proponent) has determined that the preferred alternative is to construct a new trunk storm sewer along a new alignment following the southerly limit of 200 Victoria Crescent and connecting to the existing outlet structure.



The Ministry of the Environment, Conservation and Parks (ministry) provides the following comments for your consideration.

### **General**

1. The acronym MOECC is outdated. Please update the acronym MOECC to MECP in the tables included in Appendix I: *Decision Matrix for the Evaluation of Alternatives*.
2. Consultation records should be updated with the Notice of Study Completion circulation and with any follow-up correspondence.

### **Class EA Process**

3. Section 5.4.1 of the Report states, "*It is more appropriate to complete an HIA for this Class EA once a preferred alternative is selected and a design has been established*". Please note that in the event that the results of the Heritage Impact Assessment significantly change the context of the project, such as impacting the evaluation of which alternative is the preferred solution, then a revision to the Project File may be required in accordance with section A.4.1.1 of the Municipal Class EA document (available online here: <https://municipalclassea.ca/manual/page30.html>).

### **Potential Impact**

4. Table 6-8. Evaluation of alternatives *table* indicates that Alternative 3, the preliminary preferred alternative, will result in construction impacts. The ministry recommends that Section 9 *Potential Impacts and mitigation* be expanded to include a summary of the potential impacts identified during the EA and the potential mitigation measures for the activities associated with the proposed work.

### **Air Quality and Odour**

5. Table 3 – *Summary of Alternatives Evaluation Decision Matrix* identifies potential dust impacts during construction. Please note that the ministry recommends that non-chloride dust suppressants be applied during construction. For a comprehensive list of fugitive dust prevention and control measures, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#) report prepared for Environment Canada. March 2005.

### **Excess Materials Management**

6. All waste generated during construction must be disposed of in accordance with ministry requirements.
7. In December 2019, the ministry released a new regulation under the Environmental Protection Act, titled *On-Site and Excess Soil Management* (O. Reg. 406/19) to support improved management of excess construction soil. The regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit [www.ontario.ca/page/handling-excess-soil](http://www.ontario.ca/page/handling-excess-soil). The Report should indicate that activities



involving the management of excess soil, including open-cut construction, should be completed in accordance with O. Reg. 406/19 and the ministry's current guidance document titled "[Management of Excess Soil – A Guide for Best Management Practices](#)" (2014).

### **Species at Risk**

8. Section 8.1 Project Implementation of the Report mentions that an approval might be required by the Ministry of Natural Resources and Forestry (NDMNRF) under the Endangered Species Act/Species at Risk Act. This section should be revised, as the Ministry of the Environment, Conservation and Parks is responsible for Ontario's Species at Risk program.
9. Further to Section 5.1.3 of the Report, please note that it is the responsibility of the proponent to ensure that Species at Risk (SAR) are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the Endangered Species Act (ESA). As is noted in the Report, if the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact [SAROntario@ontario.ca](mailto:SAROntario@ontario.ca) to undergo a formal review under the ESA.

### **Indigenous Consultation**

10. The ministry recommends that proponents follow up on letters/notices to identified communities with phone calls or by offering to provide separate engagement sessions. These efforts can help build on relationships in order to better identify and address concerns as early as possible in the Class EA process.
11. Section 5.4.2 *Archaeological Significance* of the Report indicates that a stage 2 Archeological Assessment (AA) is anticipated to be required as part of detailed design. The ministry recommends that the proponent continue to update identified communities regarding progress of the AA and provide them with any associated reports.
12. Please continue reaching out to communities if there are any substantial changes to the project/process or if the proponent is applying for subsequent permits from the ministry that may be of interest or concern to communities. We recommend that the proponent include the record of consultation with any subsequent applications to the ministry to help in our review of those applications.

### **Surface Water**

13. The ministry agrees that an Environmental Compliance Approval for Sewage Works may be required. A pre-consultation on this process is also available upon request from the



ministry's Technical Support Staff and Engineers from the Approvals and Permissions Branch.

---

Thank you for circulating this Project File Report for the ministry's consideration. Please document this Project Review Unit Comments in the Report. We look forward to receiving a written response from the Township of Centre Wellington to address our comments provided above.

Should you or any members of your project team have any questions regarding the material above, please contact me at [joan.delvillarcuicas@ontario.ca](mailto:joan.delvillarcuicas@ontario.ca).

Sincerely,



Joan Del Villar Cuicas  
Regional Environmental Planner  
Project Review Unit, Environmental Assessment Branch  
Ontario Ministry of the Environment, Conservation and Parks

cc Katy Potter, Supervisor, Environmental Assessment Services, MECP  
Shari Page, Triton Engineering Services Limited





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

July 14, 2022

Joan Del Villar Cuicas  
Regional Environmental Planner  
Project Review Unit, Environmental Assessment Branch  
Ontario Ministry of the Environment, Conservation and Parks  
1<sup>st</sup> Floor, 135 St. Clair Avenue W  
TORONTO, Ontario  
M4V 1P5

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear Joan,

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your letter dated July 7, 2022, received by email, presenting your comments regarding the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA"). We have noted your comments provided in your letter and can provide the following responses:

## ***General***

### **Comment 1**

*The acronym MOECC is outdated. Please update the acronym MOECC to MECP in the tables included in Appendix I: Decision Matrix for the Evaluation of Alternatives.*

### **Response**

MOECC has been replaced with MECP in Appendix I.



## **Comment 2**

*Consultation records should be updated with the Notice of Study Completion circulation and with any follow-up correspondence.*

### **Response**

Appendix L has been updated with templates of the letters that were circulated to the distribution list as well as all correspondence received during the comment period in response to the Notice of Completion.

## **Class EA Process**

## **Comment 3**

*Section 5.1.1 of the Report states, “it is more appropriate to complete an HIA for this Class EA once a preferred alternative is selected and a design has been established”. Please note that in the event that the results of the Heritage Impact Assessment significantly change the context of the project, such as impacting the evaluation of which alternative is the preferred solution, then a revision to the Project File may be required in accordance with section A.4.1.1 of the Municipal Class EA document (available online here: <https://municipalclassea.ca/manual/page30.html>).*

### **Response**

Noted.

## **Potential Impact**

## **Comment 4**

*Table 6-8. Evaluation of alternatives table indicates that Alternative 3, the preliminary preferred alternative, will result in construction impacts. The ministry recommends that Section 9 Potential Impacts and Mitigation be expanded to include a summary of the potential impacts identified during the EA and the potential mitigation measures for the activities associated with the proposed works.*

### **Response**

Section 9 of the Project File Report has been updated to include a list of potential impacts during construction of Alternative 3, as follows:

Summary of potential impacts during construction:

- Increase in noise during normal working hours from construction equipment
- Localized decrease in ambient air quality
- Increase in dust emissions
- Spills associated with construction, potentially impacting groundwater, surface water
- Removal of riparian vegetation and associated habitat
- Disturbance of breeding bird and terrestrial habitat
- Traffic disruption/lane/road closure on Victoria Crescent
- Soil erosion and sedimentation
- Generation of excess construction soil
- Potential impacts to cultural heritage resources



Mitigation measures to reduce potential impacts:

- Ensure construction activities is during work hours and in accordance with the Township's noise by-law
- Ensure equipment is maintained in good operating condition to prevent unnecessary emissions
- Implement dust control and prevention measures (i.e., the application of non-chloride dust suppressants).
- Prepare a Spill prevention and contingency plan
- Revegetation and additional mitigation measures to reduce potential impacts to be developed in consultation with the appropriate agencies during detailed design and permitting
- Abide by applicable regulations, stockpile construction materials such that habitat and limits of disturbance are minimized
- Minimize limit of disturbance and disruptions to access as best feasible
- Provide advance notification of traffic disruption to emergency, waste and transportation services; properties within the neighbourhood; and post on Township website/social media
- Install, inspect and maintain sediment and erosion control measures to minimize impacts on surrounding properties and within the regulated area
- Activities involving the management of excess soil, including open cut construction, will be completed in accordance with O.Reg. 406/19 and the ministry's current guidance document (Management of Excess Soil – A guide for Best Management Practices, 2014).
- Compliance with the recommendations of the Stage 2 archaeological assessment report.
  - If archaeological resources are impacted by construction of the project, all activities impacting archeological resources will cease immediately and MTCS will be notified via email at [archaeology@ontario.ca](mailto:archaeology@ontario.ca). A licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.
  - If human remains are encountered, all activities must cease immediately, and the local police and coroner will be contacted. In situations where human remains are associated with archaeological resources, MTCS will be notified via email at [archaeology@ontario.ca](mailto:archaeology@ontario.ca) to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.
  - Recommended technical cultural heritage studies will be completed as early as possible during detailed design.

It should be noted that other potential impacts and/or mitigation measures may be identified through studies that will be completed to support the detailed design and implementation of the project.

## ***Air Quality and Odour***

### **Comment 5**

*Table 3 – Summary of Alternatives Evaluation Decision Matrix identifies potential dust impacts during construction. Please note that the ministry recommends that non-chloride dust suppressants be applied during construction. For a comprehensive list of fugitive dust prevention and control measures, refer to [Cheminfo Services Inc. Best Practices for the Reduction of Air Emissions from Construction and Demolition Activities](#) report prepared for Environment Canada. March 2005.*

### **Response**

Noted.



## **Excess Materials Management**

### **Comment 6**

*All waste generated during construction must be disposed of in accordance with ministry requirements.*

#### **Response**

Noted and will be included in the specifications for the final design.

### **Comment 7**

*In December 2019, the ministry released a new regulation under the Environmental Protection Act, titled On-Site and Excess Soil Management (O. Reg. 406/19) to support improved management of excess construction soil. The regulation is being phased in over time, with the first phase in effect on January 1, 2021. For more information, please visit [www.ontario.ca/page/handling-excess-soil](http://www.ontario.ca/page/handling-excess-soil). The Report should indicate that activities involving the management of excess soil, including open-cut construction, should be completed in accordance with O. Reg. 406/19 and the ministry's current guidance document titled "Management of Excess Soil – A Guide for Pest Management Practices" (2014).*

#### **Response**

Noted, Section 9 of the Revised Project File Report has been updated. Refer to Response to Comment 4.

## **Species at Risk**

### **Comment 8**

*Section 8.1 Project Implementation of the Report mentions that an approval might be required by the Ministry of Natural Resources and Forestry (NDMNRF) under the Endangered Species Act/Species at Risk Act. This section should be revised, as the Ministry of the Environment, Conservation and Parks is responsible for Ontario's Species at Risk program.*

#### **Response**

Section 8.1 of the Project File Report has been revised accordingly.

### **Comment 9**

*Further to Section 5.1.3 of the Report, please note that it is the responsibility of the proponent to ensure that Species at Risk (SAR) are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the proposed activities to be carried out on the site. If the proposed activities cannot avoid impacting protected species and their habitats, then the proponent will need to apply for an authorization under the Endangered Species Act (ESA). As noted in the Report, if the proponent believes that their proposed activities are going to have an impact or are uncertain about the impacts, they should contact [SAROntario@ontario.ca](mailto:SAROntario@ontario.ca) to undergo a formal review under the ESA.*

#### **Response**

Noted.



## ***Indigenous Consultation***

### **Comment 10**

*The ministry recommends that the proponents follow up on letters/notices to identified communities with phone calls or by offering to provide separate engagement sessions. These efforts can help build on relationships in order to better identify and address concerns as early as possible in the Class EA process.*

#### **Response**

Noted. We will contact each identified community via email and phone call as a follow-up on the letters/notices that have been circulated for the Class EA. The revised Project File Report has been updated to document the additional consultation efforts/follow-up.

### **Comment 11**

*Section 5.4.2 Archaeological Significance of the Report indicates that a Stage 2 Archaeological Assessment (AA) is anticipated to be required as part of the detailed design. The ministry recommends that the proponent continue to update identified communities regarding progress of the AA and provide them with any associated reports.*

#### **Response**

Noted. The Stage 2 AA Report and associated correspondence with the Ministry of Heritage, Sport, Tourism, and Culture Industries will be shared with the identified communities.

### **Comment 12**

*Please continue reaching out to communities if there are any substantial changes to the project/process or if the proponent is applying for subsequent permits from the ministry that may be of interest or concern to communities. We recommend that the proponent include the record of consultation with any subsequent applications to the ministry to help in our review of those applications.*

#### **Response**

Noted.

## ***Surface Water***

### **Comment 13**

*The ministry agrees that an Environmental Compliance Approval for Sewage Works may be required. A pre-consultation on this process is also available upon request from the ministry's Technical Support Staff and Engineers from the Approvals and Permissions Branch.*

#### **Response**

Noted.



If you have other Comments, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED

A handwritten signature in blue ink, appearing to read 'P. Ziegler', with a stylized flourish at the end.

Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington  
Katy Potter, Supervisor, Environmental Assessment Services, MECP  
Shari Page, Triton Engineering Services Limited



Begin forwarded message:

**From:** "Harvey, Joseph (MTCS)" <Joseph.Harvey@ontario.ca>  
**Date:** July 8, 2022 at 11:41:32 PM EDT  
**To:** agilmore@centrewellington.ca  
**Cc:** "Barboza, Karla (MTCS)" <Karla.Barboza@ontario.ca>, Shari Page <spage@tritoneng.on.ca>, "Del Villar Cuicas, Joan (MECP)" <Joan.DelVillarCuicas@ontario.ca>, Paul Ziegler <PZiegler@tritoneng.on.ca>  
**Subject:** RE: File 0005107: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Adam Gilmore,

Please find attached MTCS's comments on the Project File Report prepared in support of the above referenced undertaking. Please do not hesitate to contact me with any questions or concerns.

Regards,

**Joseph Harvey | Heritage Planner**  
**Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit**  
Ministry of Tourism, Culture, and Sport  
613.242.3743  
[Joseph.Harvey@ontario.ca](mailto:Joseph.Harvey@ontario.ca)

---

**From:** Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>  
**Sent:** June 9, 2022 11:50 AM  
**To:** Minkin, Dan (MHSTCI) <[Dan.Minkin@ontario.ca](mailto:Dan.Minkin@ontario.ca)>  
**Cc:** Adam Gilmore <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' (<[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page

Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



**Ministry of Tourism, Culture and Sport**

Programs and Services Branch  
400 University Ave, 5<sup>th</sup> Flr  
Toronto, ON M7A 2R9  
Tel: 613.242.3743

**Ministère du Tourisme, Culture et Sport**

Direction des programmes et des services  
400, av. University, 5e étage  
Toronto, ON M7A 2R9  
Tél: 613.242.3743



July 8, 2022

EMAIL ONLY

Adam Gilmore, M.A.Sc., P.Eng.  
Manager of Engineering  
Township of Centre Wellington  
1 MacDonald Square  
Elora, ON N0B 1S0  
[agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca)

**MTCS File : 0005107**  
**Proponent : Centre Wellington**  
**Subject : Schedule B MCEA - Notice of Completion**  
**Project : Replacement of Trunk Storm Sewer**  
**Location : Centre Wellington**

Dear Adam Gilmore:

Thank you for providing the Ministry of Tourism Culture and Sport (MTCS) with the Notice of Completion for the above-referenced project.

Under the EA process, the proponent is required to determine a project's potential impact on known (previously recognized) and potential cultural heritage resources.

**Project Summary**

The Township of Centre Wellington is undertaking a Schedule B Municipal Class Environmental Assessment (MCEA) Study to establish a preferred alternative for replacing aging stormwater infrastructure within the Study Area. Alternative 3, which is to construct a new trunk storm sewer along a new alignment following the southerly limit of 200 Victoria Crescent and connecting to the existing outlet structure, is the confirmed and recommended preferred alternative solution.

**Project Comments**

We have reviewed the above referenced notice and Project File Report (PFR) (dated June, 2022 prepared by Triton Engineering Services Limited) and have the following comments:

*Archaeological Resources*

- Stage 1 archaeological assessment (Project Information Form (PIF) P057-0836-2016) has been undertaken for the Alternative 3 area and entered into the Ontario Public Register of Archaeological Reports. The Stage 1 archaeological assessment report recommends a Stage 2 archaeological assessment be undertaken for the entire study area.
- Please note that archaeological concerns have not been addressed until reports have been entered into the Ontario Public Register of Archaeological Reports where those reports recommend that:
  1. the archaeological assessment of the project area is complete and
  2. all archaeological sites identified by the assessment are either of no further cultural heritage value or interest (as per Section 48(3) of the *Ontario Heritage Act*) or that



mitigation of impacts has been accomplished through an avoidance and protection strategy.

- Approval authorities (such as the municipality and or the Ministry of the Environment, Conservation and Parks) typically wait to receive the ministry's review letter for an archaeological assessment report before issuing a decision on the application as it can be used, for example, to document that due diligence has been undertaken.
- MTCS recommends that further archaeological assessment(s) be completed as soon as possible during detailed design and prior to any ground disturbing activities.
- Should additional land outside of the current Alternative 3 study area be included (or impacted) as part of the proposed project, MTCS recommends that archaeological assessment be conducted as soon as possible during detailed design.

#### *Built Heritage Resources and Cultural Heritage Landscapes*

The MTCS checklist: [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) has been completed and included in Appendix G of the PFR. The checklist indicates that the project area contains properties identified, designated, or otherwise protected under the *Ontario Heritage Act* as being of Cultural Heritage Value or Interest. It is not clear whether there could be any potential built heritage resources and/or cultural heritage landscapes within the larger study area.

The property at 190 Victoria Crescent is designated under Part IV of the *Ontario Heritage Act*. MTCS concurs, that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts to the property.

The property at 200 Victoria Crescent is listed on the municipal heritage register. MTCS concurs that a Cultural Heritage Evaluation Report (CHER) should be undertaken by a qualified person to determine the cultural heritage value or interest of the property. If the property is determined to be of cultural heritage value or interest MTCS recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, be completed to assess potential project impacts.

All CHERs and HIAs should be completed as soon as possible during detailed design and prior to any ground disturbing activities. Please send the draft CHERs and HIAs to MTCS, the municipal heritage committee and heritage planner for review and comment and make them available to local organizations or individuals who have expressed interest in review.

We have included some additional comments in the attached table to assist in documenting cultural heritage due diligence in the PFR.

#### **Environmental Assessment Reporting**

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects.



Thank you for consulting MTCS on this project. We look forward to reviewing any additional technical cultural heritage studies completed in support of this undertaking. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Joseph Harvey  
Heritage Planner  
joseph.harvey@Ontario.ca

Copied to: Paul Ziegler, Project Manager, Triton Engineering Services Limited  
Shari Page, Triton Engineering Services Limited  
Joan Del Villar Cuicas, Environmental Resource Planner & EA Coordinator, MECP  
Karla Barboza, Team Lead, Heritage Planning Unit, MTCS

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS (at [archaeology@ontario.ca](mailto:archaeology@ontario.ca)) if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately, and the local police and coroner must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified (at [archaeology@ontario.ca](mailto:archaeology@ontario.ca)) to ensure that the site is not subject to unlicensed alterations which would be a contravention of *the Ontario Heritage Act*.



Item	Document Section	Given Text	MTCS Comments
1.	5.4 Cultural Environment  p. 24	<p>5.4 Cultural Environment</p> <p>5.4.1 Heritage Significance Consistent with the Class EA planning requirements, the cultural environment as it relates to heritage significance was considered in the evaluation of alternatives. The MTCS Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes checklist was completed to determine whether the Study Area is located within an area that is recognized as having cultural heritage value, built heritage resource(s) or cultural heritage landscape(s). With assistance from the Township's Planning and Development Department, the screening checklist was completed and resulted in the requirement for a qualified person(s) to complete a Cultural Heritage Evaluation Report (CHER) due to the Study Area having "identified, designated or otherwise protected [property] under the Ontario Heritage Act as being of cultural heritage value". A copy of the completed checklist is included in Appendix G.</p> <p>The Project Study Area lies within a Heritage Area, as shown on the Land Use Plan, Schedule A-1, which is included in Appendix D. Consistent with Section C.2.11, "Public Works Within Heritage Areas", of the Official Plan (2013), the impacts on the heritage of the area, if any, will be evaluated to "determine potential public safety considerations, identify alternatives, and implement any remedial measures to eliminate or reduce any adverse impacts."</p>	<p>Section 5.4 should be revised to reflect the current legislative framework and terminology. Cultural heritage resources include archaeological resources, built heritage resources and cultural heritage landscapes. MTCS offers the following suggestion of how the description of existing conditions in section 5.4 should be articulated:</p> <p>5.4 Cultural <b>Heritage</b> Environment</p> <p><b>Cultural heritage resources include archaeological resources, built heritage resources and cultural heritage landscapes.</b></p> <p>5.4.1 <b>Built Heritage Significance Resources and Cultural Heritage Landscapes</b></p> <p>Consistent with the Class EA planning requirements, the cultural <b>heritage</b> environment <del>as it relates to heritage significance</del> was considered in the evaluation of alternatives. The MTCS Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes checklist was completed to determine whether the Study Area <del>is located within an area that is recognized as having cultural heritage value,</del> <b>contains known or potential</b> built heritage resource(s) or cultural heritage landscape(s). With assistance from the Township's Planning and Development Department, the screening checklist was completed and <del>resulted in the requirement for a qualified person(s) to complete a Cultural Heritage Evaluation Report (CHER) due to the Study Area having "identified, designated or otherwise protected [property] under the Ontario Heritage Act as being of cultural heritage value".</del> <b>identified known and potential built heritage resources. The study area lies within a Heritage Area as identified in the Town's Official Plan.</b> A copy of the completed checklist is included in Appendix G.</p>



Item	Document Section	Given Text	MTCS Comments
		<p>The Township maintains a Heritage Register, which lists heritage properties having a designated status under the Ontario Heritage Act, as well as those that are not designated but hold cultural heritage interest (i.e., listed status). The trunk storm sewer and immediate upstream storm sewer system is located within a neighbourhood where private property owners are known to express pride in the heritage value of their properties through procurement of a designated or listed status on the Township's Heritage Register.</p> <p>The trunk sewer lies on private properties of 190 and 200 Victoria Crescent, which are both on the Heritage Register with a status of designated and listed, respectively. A copy of the designation bylaw and a summary of the heritage details for 190 Victoria Crescent is included in Appendix G. A summary of the heritage details for 200 Victoria Crescent are presented in Appendix G. In addition to 190 and 200 Victoria Crescent, other properties within the Project Study Area also appear on the Heritage Register. Figure 10 provides an illustrative summary of the heritage designation status of each of the properties within the Project Study Area.</p> <p>Further to a desktop review of the Township's Heritage Register, Triton consulted with Heritage Professional, Richard Unterman, Hons. B.A., M.A. (Cons. Stud.), Dipl. Rest. Tech., of Unterman McPhail Associates Heritage Resource Management Consultants, to discuss the Class EA in detail with respect to cultural heritage features within the Project Study Area. As per Mr. Unterman, from a heritage standpoint, storm sewer infrastructure itself holds no heritage cultural value; and</p>	<p><del>The Project Study Area lies within a Heritage Area, as shown on the Land Use Plan, Schedule A 1, which is included in Appendix D. Consistent with Section C.2.11, "Public Works Within Heritage Areas", of the Official Plan (2013), the impacts on the heritage of the area, if any, will be evaluated to "determine potential public safety considerations, identify alternatives, and implement any remedial measures to eliminate or reduce any adverse impacts."</del></p> <p><del>The Township maintains a Heritage Register, which lists heritage properties having a designated status under the Ontario Heritage Act, as well as those that are not designated but hold cultural heritage interest (i.e., listed status). The trunk storm sewer and immediate upstream storm sewer system is located within a neighbourhood where private property owners are known to express pride in the heritage value of their properties through procurement of a designated or listed status on the Township's Heritage Register.</del></p> <p><b>The screening also identified 2 known (previously recognized) heritage properties within the Alternative 3 Study Area (preferred alternative). The proposed trunk sewer (Alternative 3) will lie on private properties of 190 and 200 Victoria Crescent, which are both on the municipal heritage register with a status of designated and listed under the <i>Ontario Heritage Act</i>, respectively. A copy of the designation bylaw and a summary of the heritage details for 190 Victoria Crescent is included in Appendix G. A summary of the heritage details for 200 Victoria Crescent are presented in Appendix G.</b></p> <p><del>The trunk sewer lies on private properties of 190 and 200 Victoria Crescent, which are both on the Heritage Register with a status of designated and listed, respectively. A copy of the designation bylaw and a summary of the heritage details for 190 Victoria Crescent is included in Appendix G. A summary of the heritage details for 200 Victoria Crescent are presented in Appendix G. In addition to 190 and 200 Victoria Crescent,</del></p>



Item	Document Section	Given Text	MTCS Comments
		<p>work within the road right of way or easement would have no heritage value concerns itself. Further, through discussion with Mr. Unterman, it was determined that preparation of a CHER, as required based on the screening checklist, would expectedly conclude that a Heritage Impact Assessment (HIA) should be completed for the Project, given that the Project Study Area is within a community with identified designated and listed heritage properties; however, it would not be appropriate to complete an HIA until a preferred alternative is selected.</p> <p>It is more appropriate to complete an HIA for this Class EA once a preferred alternative is selected and a design has been established. The heritage attributes that may experience impacts based on the design to be implemented will be assessed to develop measures to avoid, eliminate or mitigate impacts. Completion of an HIA prior to the selection of a preferred alternative will be preliminary as the final design for implementation of each of the alternatives is not developed at this stage and an evaluation to avoid, eliminate or mitigate impacts will not be specific to the design that will ultimately be implemented. A copy of the emails regarding correspondence with Mr. Unterman are included in Appendix G.</p> <p>Further discussion with the Township's Planning and Development Department identified that local residents, known as The Elora Victoria Crescent Neighbourhood Heritage Conservation District Study Subcommittee, completed a Heritage Conservation District Study for the Victoria Crescent Neighbourhood in May 2010. The Study was not completed by a Heritage Professional;</p>	<p>other properties within the Project Study Area also appear on the Heritage Register. Figure 10 provides an illustrative summary of the heritage designation status of each of the properties within the Project Study Area.</p> <p><b>Richard Unterman of Unterman McPhail Associates was also consulted to discuss this Class EA and recommended that a CHER and HIA be completed once the preferred alternative was selected.</b></p> <p><b>Therefore, a CHER for the property at 200 Victoria Crescent will be completed by a qualified heritage consultant. If the property was found to be of cultural heritage value or interest, then an HIA will be completed by a qualified heritage consultant.</b></p> <p><b>An HIA for the property at 190 Victoria Crescent will be completed by a qualified consultant.</b></p> <p><b>All CHERs and HIAs will be completed as soon as possible during detailed design and prior to any ground disturbing activities. All draft CHER and HIA will be submitted to MTCS, municipal heritage committee and heritage planner for review and comment and will be made available to local organizations or individuals who have expressed interest in review.</b></p> <p>See also comments in cover letter.</p> <p>Further to a desktop review of the Township's Heritage Register, Triton consulted with Heritage Professional, Richard Unterman, Hons. B.A., M.A. (Cons. Stud.), Dipl. Rest. Tech., of Unterman McPhail Associates Heritage Resource Management Consultants, to discuss the Class EA in detail with respect to cultural heritage features within the Project Study Area. As per Mr. Unterman, from a heritage standpoint, storm sewer infrastructure itself holds no heritage cultural value; and work within the road right of way or easement would have no heritage value concerns itself. Further, through discussion with Mr. Unterman, it was determined that preparation of a</p>



Item	Document Section	Given Text	MTCS Comments
		<p>however, it was peer reviewed, by the University of Waterloo, at the request of the Township. As a result of insufficient funding, the Study never went through to obtain a Heritage Conservation District status under the Ontario Heritage Act and therefore, the neighbourhood as a whole, is not protected by designation by-law (refer to email correspondence with the Township's Planning Department, in Appendix G.</p> <p>A Historic Building, the St. John's the Evangelist Anglican Church is located at 36 Henderson Street, at the northeast corner of Henderson Street and Smith Street. This Church is included in the Grand River Watershed Heritage River Inventory (dated March 13, 2013), and is considered to be a cultural feature and value that supports the Grand River as a Canadian Heritage River.</p> <p>5.4.2 Archaeological Significance</p> <p>Consistent with MTCS requirements, the Criteria for Evaluating Archeological Potential checklist was used to determine if the Project Study Area has the potential to contain archaeological resources. Due to the Project Study Area being recognized for its cultural heritage value, archaeological assessment of the Study Area is required, according to the Criteria for Evaluation Archeological Potential checklist, presented in Appendix H.</p> <p>A Stage 1 Archaeological Assessment was completed by ASI Archaeological &amp; Cultural Heritage Services. Stage 1 Archaeological Assessments include a background study of historical data and property</p>	<p><del>CHER, as required based on the screening checklist, would expectedly conclude that a Heritage Impact Assessment (HIA) should be completed for the Project, given that the Project Study Area is within a community with identified designated and listed heritage properties; however, it would not be appropriate to complete an HIA until a preferred alternative is selected.</del></p> <p><del>It is more appropriate to complete an HIA for this Class EA once a preferred alternative is selected and a design has been established. The heritage attributes that may experience impacts based on the design to be implemented will be assessed to develop measures to avoid, eliminate or mitigate impacts. Completion of an HIA prior to the selection of a preferred alternative will be preliminary as the final design for implementation of each of the alternatives is not developed at this stage and an evaluation to avoid, eliminate or mitigate impacts will not be specific to the design that will ultimately be implemented. A copy of the emails regarding correspondence with Mr. Unterman are included in Appendix G.</del></p> <p><del>Further discussion with the Township's Planning and Development Department identified that local residents, known as The Elora Victoria Crescent Neighbourhood Heritage Conservation District Study Subcommittee, completed a Heritage Conservation District Study for the Victoria Crescent Neighbourhood in May 2010. The Study was not completed by a Heritage Professional; however, it was peer reviewed, by the University of Waterloo, at the request of the Township. As a result of insufficient funding, the Study never went through to obtain a Heritage Conservation District status under the Ontario Heritage Act and therefore, the neighbourhood as a whole, is not protected by designation by-law (refer to email correspondence with the Township's Planning Department, in Appendix G.</del></p> <p><del>A Historic Building, the St. John's the Evangelist Anglican Church is located at 36 Henderson Street, at the northeast corner of Henderson Street and Smith Street. This Church is included in the Grand</del></p>



Item	Document Section	Given Text	MTCS Comments
		<p>inspection of the study area to determine the archaeological potential of the properties that may be disturbed as a result of Project implementation. The Stage 1 Archaeological Assessment for this Class EA covered approximately 800 m2 at the existing location of the trunk sewer on private properties of 190 and 200 Victoria Crescent and the Irvine Promenade Trail at the existing outlet structure. The limits of the study area considered for the Stage 1 Archaeological Assessment are presented on Figure 6 of ASI's Stage 1 Archaeological Assessment Report, dated November 22, 2016, which is included in Appendix H. These limits represent the expected limits of disturbance for Alternatives 2 and 3.</p> <p>The following areas of archaeological potential were identified as a result of the Stage 1 assessment:</p> <ul style="list-style-type: none"> <li>• There are four previously registered archaeological sites located within one kilometer of the study area</li> <li>• Houses 190 and 200 Victoria Crescent appear on the Township's Heritage Register as having "designated" and "listed" status.</li> <li>• There is a potential for the identification of Indigenous and Euro-Canadian resources, which is dependent on the extent of disturbance to the soils to-date</li> <li>• Property inspection of the study area, which consists of a lawn and wooded area, identified the entire study area to retain archaeological potential.</li> </ul> <p>As a result of the findings, a Stage 2 archaeological assessment (property assessment) by test-pit survey at</p>	<p><del>River Watershed Heritage River Inventory (dated March 13, 2013), and is considered to be a cultural feature and value that supports the Grand River as a Canadian Heritage River.</del></p> <p>5.4.2 Archaeological <b>Resources</b> Significance</p> <p>Consistent with MTCS requirements, the Criteria for Evaluating Archeological Potential checklist was used to determine if the Project Study Area has the potential to contain archaeological resources. Due to the Project Study Area being recognized for its cultural heritage value, archaeological assessment of the Study Area is required, according to the Criteria for Evaluation Archeological Potential checklist, presented in Appendix H.</p> <p>A Stage 1 Archaeological Assessment (<b>Project Information Form (PIF) P057-0836-2016</b>) <del>(</del> was completed by ASI Archaeological &amp; Cultural Heritage Services. <del>ASI's Archaeological Assessment Report, (dated November 22, 2016),</del> <b>was and entered into the Ontario Public Register of Archaeological Reports.</b> <del>submitted to MHSTCI on December 12, 2016, as a condition of licensing in accordance with the Ontario Heritage Act. The MHSTCI MTCS provided clearance for the Archaeological Assessment Report on December 28, 2016 and as such, the report was entered into the Ontario Public Register of Archaeological Reports. A copy of the letter from MHSTCI MTCS to ASI informing that the report is compliant with the OHA and Standards and Guidelines for Consultant Archaeologist, including entry into the register is provided in Appendix H.</del></p> <p>Stage 1 Archaeological Assessments include a background study of historical data and property inspection of the study area to determine the archaeological potential of the properties that may be disturbed as a result of Project implementation. The Stage 1 Archaeological Assessment for this Class EA covered approximately 800 m2 at the existing location of the trunk sewer on private properties of 190 and 200 Victoria Crescent and the</p>



Item	Document Section	Given Text	MTCS Comments
		<p>five-meter intervals was recommended and is required to be completed prior to any proposed impacts within the study area. A Stage 2 assessment will determine the presence of any archaeological resources and whether there is significant cultural heritage value requiring additional assessment. Additionally, any work outside of the study area considered in the Stage 1 archaeological assessment will require an additional Stage 1 assessment to be completed.</p> <p>ASI's Archaeological Assessment Report, dated November 22, 2016, was submitted to MHSTCI on December 12, 2016, as a condition of licensing in accordance with the Ontario Heritage Act. The MHSTCI provided clearance for the Archaeological Assessment Report on December 28, 2016 and as such, the report was entered into the Ontario Public Register of Archaeological Reports. A copy of the letter from MHSTCI to ASI granting clearance and entry into the register is provided in Appendix H.</p> <p>Consequent to completion of the Stage 1 archaeological assessment, additional alternatives (named 4A and 4B) were added to the Class EA and the Study Area was expanded. The additional alternatives were added as a result to comments received from the public requesting consideration of alternatives that do not require an easement on private properties of 190 and 200 Victoria Crescent. Since the limits of the study area for the Stage 1 archaeological assessment did not include the expected areas impact for Alternatives 4A and 4B, an additional Stage 1 archaeological assessment is required. It is expected that the Stage 1 archaeological assessment would</p>	<p>Irvine Promenade Trail at the existing outlet structure. The limits of the study area considered for the Stage 1 Archaeological Assessment are presented on Figure 6 of ASI's Stage 1 Archaeological Assessment Report, dated November 22, 2016, which is included in Appendix H. These limits represent the expected limits of disturbance for Alternatives 2 and 3.</p> <p>[Then include the outcomes and recommendations of the report, as in Executive Summary]</p> <p><del>The following areas of archaeological potential were identified as a result of the Stage 1 assessment:</del></p> <ul style="list-style-type: none"> <li><del>• There are four previously registered archaeological sites located within one kilometer of the study area</del></li> <li><del>• Houses 190 and 200 Victoria Crescent appear on the Township's Heritage Register as having "designated" and "listed" status.</del></li> <li><del>• There is a potential for the identification of Indigenous and Euro-Canadian resources, which is dependent on the extent of disturbance to the soils to date</del></li> <li><del>• Property inspection of the study area, which consists of a lawn and wooded area, identified the entire study area to retain archaeological potential.</del></li> </ul> <p><del>As a result of the findings, a Stage 2 archaeological assessment (property assessment) by test pit survey at five-meter intervals was recommended and is required to be completed prior to any proposed impacts within the study area. A Stage 2 assessment will determine the presence of any archaeological resources and whether there is significant cultural heritage value requiring additional assessment. Additionally, any work outside of the study area considered in the Stage 1 archaeological assessment will require an additional Stage 1 assessment to be completed.</del></p> <p>ASI's Archaeological Assessment Report, dated November 22, 2016, was submitted to MHSTCI on December 12, 2016, as a condition of licensing</p>



Item	Document Section	Given Text	MTCS Comments
		<p>result in the recommendation for a Stage 2 assessment to be completed due to the study area location within 1 km of previously registered archaeological sites as identified in the ASI Stage 1 Archaeological Assessment Report.</p> <p>A Stage 2 archaeological assessment will be completed to support the design of the preferred alternative, once confirmed.</p>	<p>in accordance with the Ontario Heritage Act. The MHSTCI provided clearance for the Archaeological Assessment Report on December 28, 2016 and as such, the report was entered into the Ontario Public Register of Archaeological Reports. A copy of the letter from MHSTCI to ASI granting clearance and entry into the register is provided in Appendix H.</p> <p><del>Consequent to completion of the Stage 1 archaeological assessment, additional alternatives (named 4A and 4B) were added to the Class EA and the Study Area was expanded. The additional alternatives were added as a result to comments received from the public requesting consideration of alternatives that do not require an easement on private properties of 190 and 200 Victoria Crescent. Since the limits of the study area for the Stage 1 archaeological assessment did not include the expected areas impact for Alternatives 4A and 4B, an additional Stage 1 archaeological assessment is required. It is expected that the Stage 1 archaeological assessment would result in the recommendation for a Stage 2 assessment to be completed due to the study area location within 1 km of previously registered archaeological sites as identified in the ASI Stage 1 Archaeological Assessment Report.</del></p> <p>A Stage 2 archaeological assessment will be completed <b>as soon as possible during detailed design and prior to any ground disturbing activities</b> to support the design of the preferred alternative., <del>once confirmed.</del></p>
2.	<p>6.0 Evaluation of Alternative Solutions</p> <p>Table 3 – Summary of Alternatives Evaluation Decision Matrix</p>	<p>Criteria</p> <ul style="list-style-type: none"> <li>• Cultural Environment</li> </ul> <p>Sub-component</p> <ul style="list-style-type: none"> <li>• Archaeology</li> </ul> <p>Description</p> <ul style="list-style-type: none"> <li>• Impacts to archaeological resources and cultural heritage landscapes</li> </ul>	<p>We recommend the following revision to better align with section 5.4 the current legislative framework and terminology:</p> <p>Environmental Component</p> <ul style="list-style-type: none"> <li>• Cultural <b><u>Heritage</u></b> Environment</li> </ul> <p>Sub-component</p> <ul style="list-style-type: none"> <li>• Archaeological <b><u>resources</u></b></li> <li>• <b><u>Built heritage resources and cultural heritage resources</u></b></li> </ul>



Item	Document Section	Given Text	MTCS Comments
	p. 31		<p>Description</p> <ul style="list-style-type: none"> <li>Impacts to archaeological resources and areas of archaeological potential <del>cultural heritage landscapes</del></li> <li><b>Potential Impacts to known or potential built heritage resources and Cultural Heritage landscapes</b></li> </ul>
3.	9.0 Potential Impacts and Mitigations  p. 35	<p>The potential impacts to the surrounding environmental factors which may arise as a result of the implementation of the Recommended Preferred Alternative would be considered short-term.</p> <p>The implementation of the Recommended Preferred Alternative has the potential to provide long-term improvements to existing conditions. The new trunk storm sewer along the new alignment to connect and discharge to the existing outlet will be designed to ensure the depth, sizing and grade requirements are in accordance with Township and MECP standards to adequately service the overall catchment (including proposed future development).</p> <p>The project is not expected to have a significant impact on climate change given that the new trunk storm sewer will be outletting to the existing outlet structure and will be servicing the same catchment area; however, in a more efficient capacity. Given that climate change has been linked to the increased frequency of extreme weather events, the project will allow the Town to be more resilient to extreme weather events because the existing trunk storm sewer is in extremely poor condition and is not able to service the overall contributing catchment area and risks failure.</p> <p>In addition to mitigation measures that will be identified through the additional studies to be completed to support</p>	<p>We recommend revising this section to include the following additional points addressing potential impacts to cultural heritage resources:</p> <ul style="list-style-type: none"> <li>Compliance with the recommendations of the Stage 2 archaeological assessment report is required.</li> <li>If archaeological resources are impacted by EA project work, notify the Ministry of Tourism, Culture and Sport (MTCS) at <a href="mailto:archaeology@ontario.ca">archaeology@ontario.ca</a>. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the <i>Ontario Heritage Act</i> and the Standards and Guidelines for Consultant Archaeologists.</li> <li>If human remains are encountered, all activities must cease immediately, and the local police and coroner must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified (at <a href="mailto:archaeology@ontario.ca">archaeology@ontario.ca</a>) to ensure that the site is not subject to unlicensed alterations which would be a contravention of the <i>Ontario Heritage Act</i>.</li> <li>Recommended technical cultural heritage studies (e.g, archaeological assessments, CHERs and HIAs) will be completed as early as possible during detailed design.</li> </ul>



Item	Document Section	Given Text	MTCS Comments
		<p>the design and implementation of the project, the following mitigation measures will be utilized to minimize impacts related to project implementation:</p> <ul style="list-style-type: none"> <li>• Sediment and erosion control measures will be installed and inspected to minimize impacts on surrounding properties and within the regulated area</li> <li>• Construction activities will be undertaken during the hours specified in the Township's Noise By-Law</li> </ul>	
4.	<p>Appendix I</p> <p>Decision Matrix for the evaluation of alternatives</p> <p>PDF 93</p>	<p>Criteria</p> <ul style="list-style-type: none"> <li>• Cultural Environment</li> </ul> <p>Sub-component</p> <ul style="list-style-type: none"> <li>• Archaeology</li> </ul> <p>Description</p> <ul style="list-style-type: none"> <li>• Impacts to archaeological resources and cultural heritage landscapes</li> </ul>	<p>See Comment 2</p> <p>We recommend the following revision:</p> <p>Criteria</p> <ul style="list-style-type: none"> <li>• Cultural <b><u>Heritage</u></b> Environment</li> </ul> <p>Sub-component</p> <ul style="list-style-type: none"> <li>• Archaeological <b><u>resources</u></b></li> <li>• <b><u>Built heritage resources and cultural heritage resources</u></b></li> </ul> <p>Description</p> <ul style="list-style-type: none"> <li>• Impacts to archaeological resources and areas of archaeological potential <del>cultural heritage landscapes</del></li> <li>• <b>Impacts to known or potential built heritage resources and Cultural Heritage landscapes</b></li> </ul>





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • GRAVENHURST • HARRISTON

July 14, 2022

Joseph Harvey  
Heritage Planner  
Ministry of Tourism, Culture and Sport  
Heritage, Tourism and Culture Division, Programs and Services Branch, Heritage Planning Unit  
400 University Ave, 5<sup>th</sup> Floor  
TORONTO, Ontario  
M7A 2R9

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear Joseph,

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your letter dated July 8, 2022, received by email, presenting your comments regarding the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA"). We have noted your comments provided in your letter and can provide the following responses:

### ***Archaeological Resources***

- Stage 1 archaeological assessment (Project Information Form (PIF) P057-0836-2016) has been undertaken for the Alternative 3 area and entered into the Ontario Public Register of Archaeological Reports. The Stage 1 archaeological assessment report recommends a Stage 2 archaeological assessment be undertaken for the entire study area.
- Please note that archaeological concerns have not been addressed until reports have been entered into the Ontario Public Register of Archaeological Reports where those reports recommend that:
  1. the archaeological assessment of the project area is complete and
  2. all archaeological sites identified by the assessment are either of no further cultural heritage value or interest (as per Section 48(3) of the *Ontario Heritage Act*) or that mitigation of impacts has been accomplished through an avoidance and protection strategy.
- Approval authorities (such as the municipality and or the Ministry of the Environment, Conservation and Parks) typically wait to receive the ministry's review letter for an



archaeological assessment report before issuing a decision on the application as it can be used, for example, to document that due diligence has been undertaken.

- MTCS recommends that further archaeological assessment(s) be completed as soon as possible during detailed design and prior to any ground disturbing activities.
- Should additional land outside of the current Alternative 3 study area be included (or impacted) as part of the proposed project, MTCS recommends that archaeological assessment be conducted as soon as possible during detailed design.

#### Response

Noted. A Stage 2 Archaeological Assessment will be completed early on during detailed design, and the recommendations and findings will be incorporated in the project. The associated report will be provided to MTCS review and entry into the Ontario Public Register of Archaeological Reports, and forwarded to approval authorities and Indigenous Communities for their records.

#### ***Built Heritage Resources and Cultural Heritage Landscapes***

- *The MTCS checklist: Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes has been completed and included in Appendix G of the PFR. The checklist indicates that the project area contains properties identified, designated, or otherwise protected under the Ontario Heritage Act as being of Cultural Heritage Value or Interest. It is not clear whether there could be any potential built heritage resources and/or cultural heritage landscapes within the larger study area.*
- *The property at 190 Victoria Crescent is designated under Part IV of the Ontario Heritage Act. MTCS concurs, that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts to the property.*
- *The property at 200 Victoria Crescent is listed on the municipal heritage register. MTCS concurs that a Cultural Heritage Evaluation Report (CHER) should be undertaken by a qualified person to determine the cultural heritage value or interest of the property. If the property is determined to be of cultural heritage value or interest MTCS recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, be completed to assess potential project impacts.*
- *All CHERs and HIAs should be completed as soon as possible during detailed design and prior to any ground disturbing activities. Please send the draft CHERs and HIAs to MTCS, the municipal heritage committee and heritage planner for review and comment and make them available to local organizations or individuals who have expressed interest in review.*

#### Response

Noted. A qualified consultant will undertake the recommended studies early on during detailed design and the associated draft reports will be provided to MTCS, municipal heritage committee and heritage planner, and all interested stakeholders for review and comment. The proponent will ensure that the associated recommendations and findings will be incorporated in the project.

- *We have included some additional comments in the attached table to assist in documenting cultural heritage due diligence in the PFR.*

#### Response

The Project File Report, including appendices, has been revised, consistent with MTCS comments.



## ***Environmental Assessment Reporting***

*All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects.*

### Response

Noted.

If you have other Comments, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED



Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington  
Joan Del Villar Cuicas, Environmental Resource Planner & EA Coordinator, MECP  
Karla Barboza, Team Lead, Heritage Planning Unit, MTCS



## Lindsay Scott

---

**From:** Harvey, Joseph (MTCS) <Joseph.Harvey@ontario.ca>  
**Sent:** Thursday, July 21, 2022 5:18 PM  
**To:** Lindsay Scott  
**Cc:** Adam Gilmore; Brandon Buehler; Paul Ziegler; Shari Page; Del Villar Cuicas, Joan (MECP); Barboza, Karla (MTCS)  
**Subject:** RE: File 0005107: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Lindsay Scott,

Thank you for providing us with your response. MTCS has no further concerns at this time.

Regards,

### Joseph Harvey | Heritage Planner

Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit

Ministry of Tourism, Culture, and Sport

613.242.3743

[Joseph.Harvey@ontario.ca](mailto:Joseph.Harvey@ontario.ca)

---

**From:** Lindsay Scott <lscott@tritoneng.on.ca>  
**Sent:** July 14, 2022 4:33 PM  
**To:** Harvey, Joseph (MTCS) <Joseph.Harvey@ontario.ca>  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; Brandon Buehler <BBuehler@centrewellington.ca>; Paul Ziegler <PZiegler@tritoneng.on.ca>; Shari Page <spage@tritoneng.on.ca>; Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>; Barboza, Karla (MTCS) <Karla.Barboza@ontario.ca>  
**Subject:** RE: File 0005107: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good Afternoon,

Please find attached responses to MTCS Comments received July 8, 2022.

A copy of the Final Project File Report is available on the Township's website, here:

<https://www.centrewellington.ca/en/living-here/environmental-assessments.aspx>

Regards,

Lindsay Scott, P.Eng.



Triton Engineering Services Limited

The Old Post – 39 Elora Street South, Unit 7, 8 & 9, P.O. Box 159, Harriston, ON N0G 1Z0

Tel - (519) 292-1611 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



---

**From:** "Harvey, Joseph (MTCS)" <[Joseph.Harvey@ontario.ca](mailto:Joseph.Harvey@ontario.ca)>  
**Date:** July 8, 2022 at 11:41:32 PM EDT  
**To:** [agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca)  
**Cc:** "Barboza, Karla (MTCS)" <[Karla.Barboza@ontario.ca](mailto:Karla.Barboza@ontario.ca)>, Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>, "Del Villar Cuicas, Joan (MECP)" <[Joan.DelVillarCuicas@ontario.ca](mailto:Joan.DelVillarCuicas@ontario.ca)>, Paul Ziegler <[PZiegler@tritoneng.on.ca](mailto:PZiegler@tritoneng.on.ca)>  
**Subject:** RE: File 0005107: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Adam Gilmore,

Please find attached MTCS's comments on the Project File Report prepared in support of the above referenced undertaking. Please do not hesitate to contact me with any questions or concerns.

Regards,

**Joseph Harvey | Heritage Planner**  
**Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit**  
Ministry of Tourism, Culture, and Sport  
613.242.3743  
[Joseph.Harvey@ontario.ca](mailto:Joseph.Harvey@ontario.ca)

---

**From:** Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>  
**Sent:** June 9, 2022 11:50 AM  
**To:** Minkin, Dan (MHSTCI) <[Dan.Minkin@ontario.ca](mailto:Dan.Minkin@ontario.ca)>  
**Cc:** Adam Gilmore <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' ([BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page

Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)



This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



Begin forwarded message:

**From:** "Lee, Erinn (MECP)" <Erinn.Lee2@ontario.ca>  
**Date:** July 13, 2022 at 2:41:32 PM ADT  
**To:** agilmore@centrewellington.ca, Paul Ziegler <PZiegler@tritoneng.on.ca>  
**Cc:** "Del Villar Cuicas, Joan (MECP)" <Joan.DelVillarCuicas@ontario.ca>, Shari Page <spage@tritoneng.on.ca>  
**Subject:** MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA

Good afternoon,

Please find attached MECP's comments related to source water protection for the Replacement of Trunk Storm Sewer, Victoria Crescent Municipal Class Environmental Assessment. These comments are provided on behalf of Joan Del Villar Cuicas during her absence this week. Any follow-up questions or responses should still be directed to Joan moving forward.

Thank you,

**Erinn Lee** ([she/her](#))  
Regional Environmental Planner | Ministry of the Environment, Conservation and Parks  
Project Review Unit, Environmental Assessment Branch  
135 St. Clair Ave W, Toronto, ON M4V 1P5  
P : 1 (416) 357-1511 E: [Erinn.Lee2@ontario.ca](mailto:Erinn.Lee2@ontario.ca)



Ministry of the Environment,  
Conservation and Parks

Ministère de l'Environnement, de la  
Protection de la nature et des Parcs

*Environmental Assessment Branch*

*Direction des évaluations  
environnementales*

1<sup>st</sup> Floor  
135 St. Clair Avenue W  
Toronto ON M4V 1P5  
Tel.: 416 314-8001  
Fax.: 416 314-8452

Rez-de-chaussée  
135, avenue St. Clair Ouest  
Toronto ON M4V 1P5  
Tél. : 416 314-8001  
Téléc. : 416 314-8452



July 13, 2022

Adam Gilmore, Manager of Engineering (BY EMAIL ONLY)  
Township of Centre Wellington  
[agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca)

Paul Ziegler, Project Manager (BY EMAIL ONLY)  
Triton Engineering Services Limited  
[pziegler@tritoneng.on.ca](mailto:pziegler@tritoneng.on.ca)

**Re: Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
Municipal Class Environmental Assessment – Schedule B  
MECP Project Review Unit Comments: Source Water Protection**

Dear Project Team,

This letter is in response to the Project File Report prepared for the Replacement of Trunk Storm Sewer, Victoria Crescent Municipal Class Environmental Assessment. The Ministry of the Environment, Conservation and Parks (MECP) provides the following comments on source water protection for your consideration. These comments are provided in addition to those previously provided by Joan Del Villar Cuicas.

#### General Drinking Water Source Protection Requirements

The *Clean Water Act, 2006* (CWA) aims to protect existing and future sources of drinking water. To achieve this, several types of vulnerable areas are delineated around surface water intakes and wellheads for every municipal residential drinking water system that is located in a source protection area. These vulnerable areas are known as a Wellhead Protection Areas (WHPAs), and surface water Intake Protection Zones (IPZs). Other vulnerable areas that can be delineated under the CWA for municipal drinking water systems include Significant Groundwater Recharge Areas (SGRAs) and Highly Vulnerable Aquifers (HVAAs). In addition, event-based modelling areas (EBAs) and Issues Contributing Areas (ICAs) may also occur, overlapping with one of the four above-named vulnerable areas.

The source protection information atlas (SPIA) is publicly available and can be used to locate delineated vulnerable areas in Ontario:

- <https://www.lioapplications.lrc.gov.on.ca/SourceWaterProtection/index.html?viewer=SourceWaterProtection.SWPViewer&locale=en-CA>
- <https://www.gisapplication.lrc.gov.on.ca/SourceWaterProtection/Index.html?site=SourceWaterProtection&viewer=SWPViewer&locale=en-US>



Projects that are subject to the *Environmental Assessment Act* that fall under a Class EA, or one of the Regulations, have the potential to impact sources of drinking water if they occur in designated vulnerable areas or in the vicinity of other at-risk drinking water systems (i.e. systems that are not municipal residential systems), and source protection plan policies could apply.

Specifically, projects that result from environmental assessments may include activities that, if located in a vulnerable area, may be considered a threat to sources of drinking water (i.e. have the potential to adversely affect the quality or quantity of drinking water sources) and could be subject to policies in a source protection plan. Where an activity poses a risk to drinking water, policies in the local source protection plan may impact how or where that activity is undertaken. Policies may prohibit certain activities, or they may require risk management measures for these activities. Municipal Official Plans, planning decisions, Waste Management Plans (where a plan includes a drinking water risk) and prescribed instruments must conform with policies that address significant risks to drinking water and must have regard for policies that address moderate or low risks.

Please note that where it has been determined that the project is within a vulnerable area, consideration of source protection must be clearly documented within the project file or environmental study report, as applicable. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area. If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to sources of drinking water (this should be consulted on with the appropriate source protection authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the project file or environmental study report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/ negative effects of alternatives, mitigation measures, evaluation of alternatives etc.

The local source protection authority can provide proponents with assistance in determining whether an activity associated with the construction or operation of the project may be considered to be a drinking water threat as per the CWA and will be able to help determine whether there are policies in the source protection plan that may apply. Please note, even if the project activities in a vulnerable area are deemed not to pose a risk to drinking water, there may be other policies that apply and so consultation with the local source protection authority is important.

#### Project Specific Comments and Considerations

The Environmental Assessment Study Area, Victoria Crescent, Elora, Township of Centre Wellington is located in the **Grand River Source Protection Area** and is therefore subject to the approved **Grand River Source Protection Plan, Chapter 7 County of Wellington Source Protection Plan**.

The Township of Wellington has documented severe deterioration of the existing trunk storm sewer at Victoria Crescent in Elora. Replacement of the trunk sewer is required not only to address the extremely poor condition but also to provide upgrades to meet minimum depth, sizing and grade requirements to provide service to the overall contributing catchment area. The proposed alternatives considered for this project are: 1) do nothing, 2) replace the trunk storm sewer and maintain the existing outlet structure, 3) decommission and abandon the old and install a new trunk storm sewer and connect to existing outlet structure and 4) decommission and abandon the old and install a new trunk storm sewer and connect to a new outlet structure. The EA Project File Report indicates that the preferred alternative after public consultation is alternative no. 3: construction of a new trunk storm sewer from Victoria Crescent to the existing outfall at Irvine Creek along a new alignment and includes decommissioning and abandoning the existing storm sewer in place.



The project area is located at Victoria Crescent in Elora, Township of Centre Wellington. As shown in Figure 1 in Appendix A, the study area falls within Wellhead Protection Area (WHPA) B with vulnerability score 10, WHPA C with vulnerability score 8, Intake Protection Zone (IPZ) 3 with vulnerability score 5, Highly Vulnerable Aquifer (HVA) scoring 6, water quantity WHPA Q1 with Significant Stress and WHPA Q2.

The construction of a new trunk storm sewer from Victoria Crescent to both the existing and alternative outfall locations **is not a significant drinking water threat**. This means threats can be moderate/low and select policies may still apply. In addition, within Highly Vulnerable Aquifers there may be other kinds of drinking water systems present that are not explicitly addressed by the source protection plan and the proponent should take these into consideration. EA projects should protect sensitive hydrologic features including current or future sources of drinking water not explicitly addressed in source protection plans, such as private systems – individual or clusters, and designated facilities within the meaning of O. Reg. 170/03 under the *Safe Drinking Water Act* – i.e., camps, schools, health care facilities, seasonal users, etc.

In the EA Project File Report for Replacement of Trunk Storm Sewer at Victoria Crescent, Elora, the proponent has discussed source water protection briefly as part of section 5.1.8 Source Water Protection. The proponent correctly identifies the location of the project site in WHPA-B and C with a vulnerability scores 10 and 8 respectively, IPZ-2 scoring 5, WHPA Q1 and Q2. The document provides a general summary of activities that pose drinking water threats in a WHPA B in Appendix F; however neither the EA Project Report or the summary indicate that Grand River Source Protection Plan and its policies apply to this project.

Considering that the project area is located within a wellhead protection area for water quantity with significant stress, the following policies from Grand River Source Protection Plan also apply:

- WC-MC-23.1 and WC-MC-23.2 directed at Ministry of Environment, Conservation and Parks (MECP) regarding terms and conditions to address groundwater recharge considerations in environmental compliance approvals for existing and future stormwater management facilities (please refer to the full text of the policies in Grand River Source Protection Plan, Chapter 7. County of Wellington Source Protection Plan)
- WC-MC-3.7 directed at MECP regarding terms and conditions in environmental compliance approvals for existing or future stormwater management facilities
- WC-CW-21.1 directed at the Township of Centre Wellington regarding monitoring of groundwater and surface water systems to assess impact from consumptive water takings and / or recharge reducing activities
- WC-CW-21.2 and WC-NB-21.3 directed at the County, Grand River Conservation Authority, Municipalities and the MECP, regarding sharing information about water resources between interested parties
- WC-CW-21.4 directed at Municipalities regarding education and outreach initiatives
- WC-NB-21.5 directed at MECP regarding continuation of assessments and monitoring programs (Tier 3 Models)
- WC-MC-23.3 directed at the County regarding settlement area expansions
- WC-MC-23.4 directed at the Planning Approval Authorities regarding best management practices for new developments
- WC-MC-23.5 directed at the Planning Approval Authorities regarding water balance assessment for the new developments
- WC-CW-23.6 directed at Municipalities regarding design standards for maintaining and enhancing groundwater recharge and
- WC-NB-23.7 directed at MECP regarding inspection planning.



MECP recommends that the proponent review the full text of the drinking water source protection policies that apply to this project in Grand River Source Protection Plan, Chapter 7 County of Wellington Source Protection Plan and incorporate them in the future considerations for this project. The proponent should also consult with the local source protection authority if they have not already done so.

I am sharing these comments on behalf of Joan Del Villar Cuicas during her absence. Should you or any members of your project team have any questions regarding the material above, please contact Joan at [Joan.Delvillarcuicas@ontario.ca](mailto:Joan.Delvillarcuicas@ontario.ca).

Sincerely,

A handwritten signature in black ink that reads "Erinn Lee". The script is cursive and fluid.

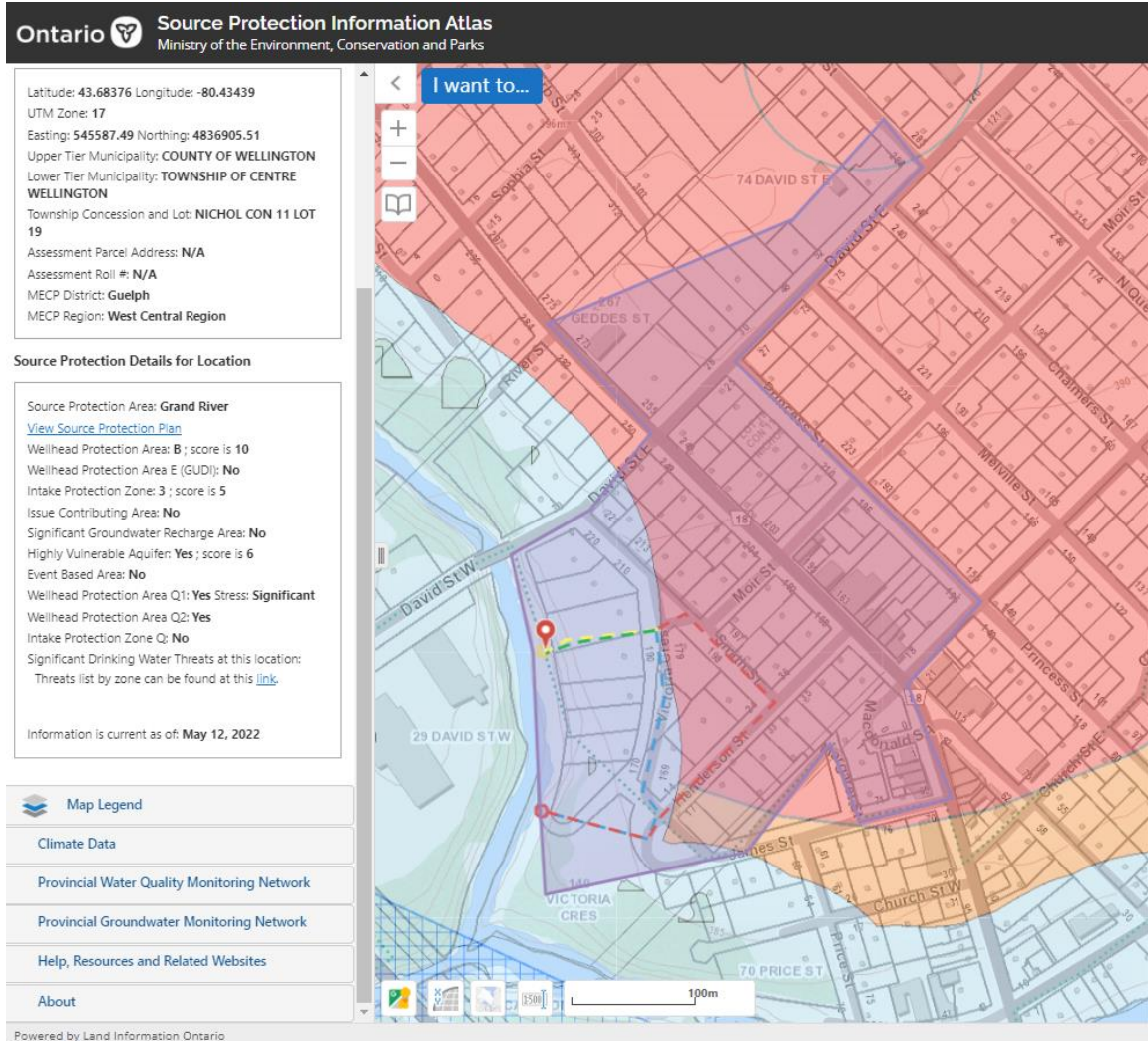
Erinn Lee  
Regional Environmental Planner  
Project Review Unit, Environmental Assessment Branch  
Ontario Ministry of the Environment, Conservation and Parks

cc Shari Page, Triton Engineering Services Limited

Attach: Appendix A – SPIA Map of EA area



## Appendix A – SPIA Map of EA site area



**Figure 1** SPIA map showing location of Victoria Crescent. Project area (shown in purple polygon) is located in WHPA B with vulnerability score 10 (red shade), WHPA C score 8 (orange shade), IPZ 3 with vulnerability score 5 (light blue shade), WHPA Q1 and WHPA Q2. Proposed alternatives are shown in dashed lines (#2 – green line, #3 – yellow line, outfall from #2 and 3 – yellow circle, #4 – blue and red line, outfall from #4 – red circle).



## Lindsay Scott

---

**From:** Lindsay Scott  
**Sent:** Tuesday, July 19, 2022 2:45 PM  
**To:** 'Erinn.Lee2@ontario.ca'; 'Joan.DelVillarCuicas@ontario.ca'  
**Cc:** Adam Gilmore; 'Brandon Buehler'; Paul Ziegler; Shari Page  
**Subject:** RE: MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA  
**Attachments:** FINAL Responses to MECP Comments Rcvd 2022-07-13.pdf

Good Afternoon,

Please find attached responses to MECP comments received July 13, 2022.

A copy of the Final Project File Report is available on the Township's website, here:  
<https://www.centrewellington.ca/en/living-here/environmental-assessments.aspx>.

Regards,

Lindsay Scott, P.Eng.



Triton Engineering Services Limited  
The Old Post – 39 Elora Street South, Unit 7, 8 & 9, P.O. Box 159, Harriston, ON N0G 1Z0  
Tel - (519) 292-1611 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** "Lee, Erinn (MECP)" <[Erinn.Lee2@ontario.ca](mailto:Erinn.Lee2@ontario.ca)>  
**Date:** July 13, 2022 at 2:41:32 PM ADT  
**To:** [agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca), Paul Ziegler <[PZiegler@tritoneng.on.ca](mailto:PZiegler@tritoneng.on.ca)>  
**Cc:** "Del Villar Cuicas, Joan (MECP)" <[Joan.DelVillarCuicas@ontario.ca](mailto:Joan.DelVillarCuicas@ontario.ca)>, Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>  
**Subject:** MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA

Good afternoon,

Please find attached MECP's comments related to source water protection for the Replacement of Trunk Storm Sewer, Victoria Crescent Municipal Class Environmental Assessment. These comments are provided on behalf of Joan Del Villar Cuicas during her absence this week. Any follow-up questions or responses should still be directed to Joan moving forward.

Thank you,

**Erinn Lee** ([she/her](#))



**Regional Environmental Planner** | Ministry of the Environment, Conservation and Parks  
Project Review Unit, Environmental Assessment Branch  
135 St. Clair Ave W, Toronto, ON M4V 1P5  
P : 1 (416) 357-1511 E: [Erinn.Lee2@ontario.ca](mailto:Erinn.Lee2@ontario.ca)





105 Queen Street West, Unit 14  
Fergus  
Ontario N1M 1S6  
Tel: (519) 843-3920  
Fax: (519) 843-1943  
Email: info@tritoneng.on.ca

ORANGEVILLE • FERGUS • HARRISTON

July 19, 2022

Erinn Lee  
Regional Environmental Planner  
Project Review Unit, Environmental Assessment Branch  
Ontario Ministry of the Environment, Conservation and Parks  
1<sup>st</sup> Floor, 135 St. Clair Avenue W  
TORONTO, Ontario  
M4V 1P5

RE: Township of Centre Wellington  
Municipal Class Environmental Assessment  
Replacement of Trunk Storm Sewer  
Victoria Crescent, Elora  
Notice of Completion  
OUR FILE: M6186A

Dear Erinn,

On behalf of the Township of Centre Wellington (Township), Triton Engineering Services Limited (Triton) would like to thank-you for your letter dated July 13, 2022, received by email, presenting your comments on the Replacement of the Victoria Crescent, Elora Trunk Storm Sewer Schedule 'B' Municipal Class Environmental Assessment (the "Class EA") regarding source water protection. We have noted your comments provided in your letter and can provide the following responses:

### ***General Drinking Water Source Protection Requirements***

#### **Comment 1**

*Please note that where it has been determined that the project is within a vulnerable area, consideration of source protection must be clearly documented within the project file or environmental study report, as applicable. Specifically, the report should discuss whether or not the project is located in a vulnerable area and provide applicable details about the area. If located in a vulnerable area, proponents should document whether any project activities are prescribed drinking water threats and thus pose a risk to sources of drinking water (this should be consulted on with the appropriate source protection authority). Where an activity poses a risk to drinking water, the proponent must document and discuss in the project file or environmental study report how the project adheres to or has regard to applicable policies in the local source protection plan. This section should then be used to inform and be reflected in other sections of the report, such as the identification of net positive/ negative effects of alternatives, mitigation measures, evaluation of alternatives etc.*



*The local source protection authority can provide proponents with assistance in determining whether an activity associated with the construction or operation of the project may be considered to be a drinking water threat as per the CWA and will be able to help determine whether there are policies in the source protection plan that may apply. Please note, even if the project activities in a vulnerable area are deemed not to pose a risk to drinking water, there may be other policies that apply and so consultation with the local source protection authority is important.*

#### Response

Noted. See responses to Comments 2 through 7.

### **Project Specific Comments and Considerations**

#### **Comment 2**

*The Environmental Assessment Study Area, Victoria Crescent, Elora, Township of Centre Wellington is located in the **Grand River Source Protection Area** and is therefore subject to the approved **Grand River Source Protection Plan, Chapter 7 County of Wellington Source Protection Plan.***

#### Response

Noted. Section 5.1.8 of the Project File Report has been updated to include this information.

#### **Comment 3**

*The construction of a new trunk storm sewer from Victoria Crescent to both the existing and alternative outfall locations **is not a significant drinking water threat**. This means threats can be moderate/low and select policies may still apply. In addition, within Highly Vulnerable Aquifers there may be other kinds of drinking water systems present that are not explicitly addressed by the source protection plan and the proponent should take these into consideration. EA projects should protect sensitive hydrologic features including current or future sources of drinking water not explicitly addressed in source protection plans, such as private systems - individual or clusters, and designated facilities within the meaning of O. Reg. 170/03 under the Safe Drinking Water Act - i.e., camps, schools, health care facilities, seasonal users, etc.*

#### Response

Noted. Section 5.1.8 of the Project File Report has been revised.

#### **Comment 4**

*In the EA Project File Report for Replacement of Trunk Storm Sewer at Victoria Crescent, Elora, the proponent has discussed source water protection briefly as part of section 5.1.8 Source Water Protection. The proponent correctly identifies the location of the project site in WHPA-B and C with a vulnerability scores 10 and 8 respectively, IPZ-2 scoring 5, WHPA Q1 and Q2. The document provides a general summary of activities that pose drinking water threats in a WHPA B in Appendix F; however neither the EA Project Report or the summary indicate that Grand River Source Protection Plan and its policies apply to this project.*

#### Response

Noted. See response to Comment 2.



### **Comment 5**

*All waste generated during construction must be disposed of in accordance with ministry requirements.*

### **Response**

Noted and will be included in the specifications for the final design.

### **Comment 6**

*Considering that the project area is located within a wellhead protection area for water quantity with significant stress, the following policies from Grand River Source Protection Plan also apply:*

- WC-MC-23.1 and WC-MC-23.2 directed at Ministry of Environment, Conservation and Parks (MECP) regarding terms and conditions to address groundwater recharge considerations in environmental compliance approvals for existing and future stormwater management facilities (please refer to the full text of the policies in Grand River Source Protection Plan, Chapter 7. County of Wellington Source Protection Plan)*
- WC-MC-3.7 directed at MECP regarding terms and conditions in environmental compliance approvals for existing or future stormwater management facilities*
- WC-CW-21.1 directed at the Township of Centre Wellington regarding monitoring of groundwater and surface water systems to assess impact from consumptive water takings and / or recharge reducing activities*
- WC-CW-21.2 and WC-NB-21.3 directed at the County, Grand River Conservation Authority, Municipalities and the MECP, regarding sharing information about water resources between interested parties*
- WC-CW-21.4 directed at Municipalities regarding education and outreach initiatives*
- WC-NB-21.5 directed at MECP regarding continuation of assessments and monitoring programs (Tier 3 Models)*
- WC-MC-23.3 directed at the County regarding settlement area expansions*
- WC-MC-23.4 directed at the Planning Approval Authorities regarding best management practices for new developments*
- WC-MC-23.5 directed at the Planning Approval Authorities regarding water balance assessment for the new developments*
- WC-CW-23.6 directed at Municipalities regarding design standards for maintaining and enhancing groundwater recharge and*
- WC-NB-23.7 directed at MECP regarding inspection planning.*

### **Response**

Noted. Section 5.1.8 of the Project File Report has been updated to reflect this information, which will be incorporated into future considerations for this project, in consultation with the local source protection authority (Wellington Source Water Protection).

### **Comment 7**

*MECP recommends that the proponent review the full text of the drinking water source protection policies that apply to this project in Grand River Source Protection Plan, Chapter 7 County of Wellington Source Protection Plan and incorporate them in the future considerations for this project. The proponent should also consult with the local source protection authority if they have not already done so.*



Response

Noted. See response to Comment 6.

If you have other Comments, please do not hesitate to contact the undersigned.

Yours very truly,

TRITON ENGINEERING SERVICES LIMITED



Paul Ziegler, C.E.T.  
Consultant Project Manager

LMS/

cc: Adam Gilmore, M.A.Sc., P.Eng., Manager of Engineering, Township of Centre Wellington  
Joan Del Villar Cuicas, Regional Environmental Planner, Project Review Unit, EA Branch, MECP  
Shari Page, Triton Engineering Services Limited



## Lindsay Scott

---

**From:** Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>  
**Sent:** Thursday, July 28, 2022 9:32 AM  
**To:** Lindsay Scott  
**Cc:** Adam Gilmore; Brandon Buehler; Paul Ziegler; Shari Page  
**Subject:** RE: MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good morning Lindsay,  
Thank you for providing responses to our comments. MECP does not have further comments at this time.

Regards,

**Joan Del Villar Cuicas** (she/her)  
Regional Environmental Planner (A)  
Project Review Unit | Environmental Assessment Branch  
Ontario Ministry of the Environment, Conservation and Parks  
[Joan.delvillarcuicas@ontario.ca](mailto:Joan.delvillarcuicas@ontario.ca) | Phone: 365-889-1180

---

**From:** Lindsay Scott <lscott@tritoneng.on.ca>  
**Sent:** Tuesday, July 19, 2022 2:46 PM  
**To:** Lee, Erinn (MECP) <Erinn.Lee2@ontario.ca>; Del Villar Cuicas, Joan (MECP) <Joan.DelVillarCuicas@ontario.ca>  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; Brandon Buehler <BBuehler@centrewellington.ca>; Paul Ziegler <PZiegler@tritoneng.on.ca>; Shari Page <spage@tritoneng.on.ca>  
**Subject:** RE: MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA

**CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.**

Good Afternoon,

Please find attached responses to MECP comments received July 13, 2022.

A copy of the Final Project File Report is available on the Township's website, here:  
<https://www.centrewellington.ca/en/living-here/environmental-assessments.aspx>.

Regards,

Lindsay Scott, P.Eng.



Triton Engineering Services Limited  
The Old Post – 39 Elora Street South, Unit 7, 8 & 9, P.O. Box 159, Harriston, ON N0G 1Z0  
Tel - (519) 292-1611 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)



**From:** "Lee, Erinn (MECP)" <[Erinn.Lee2@ontario.ca](mailto:Erinn.Lee2@ontario.ca)>  
**Date:** July 13, 2022 at 2:41:32 PM ADT  
**To:** [agilmore@centrewellington.ca](mailto:agilmore@centrewellington.ca), Paul Ziegler <[PZiegler@tritoneng.on.ca](mailto:PZiegler@tritoneng.on.ca)>  
**Cc:** "Del Villar Cuicas, Joan (MECP)" <[Joan.DelVillarCuicas@ontario.ca](mailto:Joan.DelVillarCuicas@ontario.ca)>, Shari Page <[spage@tritoneng.on.ca](mailto:spage@tritoneng.on.ca)>  
**Subject:** MECP Comments - Source Water Protection - Replacement of Trunk Storm Sewer, Victoria Crescent MCEA

Good afternoon,

Please find attached MECP's comments related to source water protection for the Replacement of Trunk Storm Sewer, Victoria Crescent Municipal Class Environmental Assessment. These comments are provided on behalf of Joan Del Villar Cuicas during her absence this week. Any follow-up questions or responses should still be directed to Joan moving forward.

Thank you,

**Erinn Lee** ([she/her](#))  
Regional Environmental Planner | Ministry of the Environment, Conservation and Parks  
Project Review Unit, Environmental Assessment Branch  
135 St. Clair Ave W, Toronto, ON M4V 1P5  
P : 1 (416) 357-1511 E: [Erinn.Lee2@ontario.ca](mailto:Erinn.Lee2@ontario.ca)



Township of Centre Wellington  
 Replacement of Trunk Storm Sewer, Victoria Crescent, Elora  
 Municipal Class Environmental Assessment  
 Indigenous Communities Contact List – Notice of Completion Follow-Up

Stakeholder	Contact Information	Phone Call Notes	Email Notes
<b>Six Nations of the Grand River Territory</b> 1695 Chiefswood Road P.O. Box 5000 <b>OHSWEKEN</b> , Ontario N0A 1M0	Chief Mark B. Hill <a href="mailto:markhill@sixnations.ca">markhill@sixnations.ca</a> 519-445-2201  Robbin Vanstone Consultation Supervisor <a href="mailto:rinn@sixnations.ca">rinn@sixnations.ca</a> <a href="mailto:rvanstone@sixnations.ca">rvanstone@sixnations.ca</a> 519-753-0665  Lonny Bomberry Lands and Resources Director <a href="mailto:lonnybomberry@sixnations.ca">lonnybomberry@sixnations.ca</a> 519-753-0665	Follow up calls made July 22 <sup>nd</sup> and August 8 <sup>th</sup> .  Spoke with Tammy Martin ( <a href="mailto:tammymartin@sixnation.ca">tammymartin@sixnation.ca</a> 519-717-5637) and confirmed our contact information is correct however, Tammy should also be copied in the future to ensure receipt and distribution. Tammy also provided additional contact information for future correspondence, as follows:  Tayler Hill <a href="mailto:Tayler.hill@sixnations.ca">Tayler.hill@sixnations.ca</a>	Original NOC emails were sent June 9 <sup>th</sup> and followed up by email on July 21 <sup>st</sup> , 2022.  Received email sent receipts but did not receive any read receipts.  All emails were resent Aug. 8 <sup>th</sup> , 2022, with attention to Tammy Martin and copied to Tayler Hill (as per Tammy's direction).  Confirmation of receipt received for the August 8 <sup>th</sup> emails.



Stakeholder	Contact Information	Phone Call Notes	Email Notes
<p><b>Mississaugas of the New Credit First Nation</b>  2789 Mississauga Rd, R.R. #6  <b>HAGERSVILLE</b>, Ontario  N0A 1H0</p>	<p>Chief R. Stacey LaForme  <a href="mailto:Stacey.laforme@mncfn.ca">Stacey.laforme@mncfn.ca</a>  905-768-1133</p> <p>Mark LaForme  Director of Consultation  <a href="mailto:Mark.Laforme@mncfn.ca">Mark.Laforme@mncfn.ca</a>  905-768-4260</p> <p><del>Fawn Sault</del>  <del>Consultation Manager</del>  <del><a href="mailto:Fawn.Sault@mncfn.ca">Fawn.Sault@mncfn.ca</a></del>  <del>905-768-4260</del></p> <p><del>Megan DeVries</del>  <del>Archaeological Coordinator</del>  <del><a href="mailto:Megan.devries@mncfn.ca">Megan.devries@mncfn.ca</a></del>  <del>905-768-4260</del></p>	<p>Detailed message was left with Chief Laforme, Mark Laforme, Fawn Sault and Megan DeVries on July 22<sup>nd</sup>, 2022.</p> <p>Second call to Chief Laforme made on August 8<sup>th</sup>, 2022 and left a detailed message with voicemail of Kaitlyn (905-768-4983), who is Chief Laforme's assistant.</p> <p>Received voicemail from Mark Laforme on August 10, 2022 confirming receipt of notices for the Class EA and provided that there are no concerns regarding the project.</p> <p>Spoke with administration who suggested we redirect our emails for</p> <p>F.Sault and M.DeVries be redirected to Abby Laforme to Adam Laforme, respectively.</p>	<p>Original NOC emails were sent June 9<sup>th</sup> and followed up by email on July 21<sup>st</sup>, 2022.</p> <p>Received email sent receipts but did not receive any read receipts.</p> <p>Forwarded original NOC emails to Abby Laforme  Abby.Laforme@mncfn.ca  and Adam Laforme  Adam.Laforme@mncfn.ca  On August 8, 2022 and received confirmation of receipt.</p> <p>Adam Laforme responded via email to confirm receipt and requested that the Stage 2 Archeological and Heritage Impact Assessments be forwarded to his attention when available.</p>



Stakeholder	Contact Information	Phone Call Notes	Email Notes
<b>Métis Nation of Ontario</b> Suite 1100 – 66 Slater Street <b>OTTAWA</b> , Ontario K1P5H1	<a href="mailto:consultations@metisnation.org">consultations@metisnation.org</a> 1-800-263-4889	Follow up calls made July 22 <sup>nd</sup> & August 8 <sup>th</sup> , 2022.  Received a return call from Laura Desaulniers Lands, Resources & Consultations (LRC) Branch Coordinator Métis Nation of Ontario Thunder Bay, ON <a href="mailto:Laurad@metisnation.org">Laurad@metisnation.org</a> 807-823-1534 (Personal#) asking to resend correspondence to her attention.	Resent original correspondence of July 9 <sup>th</sup> and July 21 <sup>st</sup> to Laura Desaulniers on August 8, 2022.  Laura will ensure the information has been shared with the correct Regional Counsel.  Received confirmation of receipt of August 8 <sup>th</sup> email.
<b>Haudenosaunee Confederacy Chiefs Council</b> <b>c/o Haudenosaunee Development Institute</b> P.O. Box 714 <b>OHSWEKEN</b> , Ontario N0A 1M0	<a href="mailto:info@hdi.land">info@hdi.land</a> 519-445-4222	Follow up calls made July 22 <sup>nd</sup> & August 8 <sup>th</sup> , 2022.  Original email of July 9 <sup>th</sup> ; and follow-up email of July 21 <sup>st</sup> was resent Aug. 8 <sup>th</sup> , 2022 as per phone conversation with Tracey (Administration). She will distribute to the Council members accordingly.	Original NOC emails were sent June 9 <sup>th</sup> and followed up by email on July 21 <sup>st</sup> , 2022.  Received email sent receipts but did not receive any read receipts.  Correspondence resent to Tracey August 8 <sup>th</sup> , 2022



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:05 PM  
**To:** info@hdi.land  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Haudenosaunee Confederacy.pdf

Good afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with the Haudenosaunee Confederacy as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:42 AM  
**To:** 'info@hdi.land' <info@hdi.land>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:16 PM  
**To:** 'consultations@metisnation.org'  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Metis Nation.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with the Metis Nation as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:43 AM  
**To:** 'consultations@metisnation.org' <consultations@metisnation.org>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*



A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:10 PM  
**To:** 'fawn.sault@mncfn.ca'  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Mississaugas of the Credit First Nation\_Fawn Sault.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Mississaugas of the New Credit First Nation as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:41 AM  
**To:** 'fawn.sault@mncfn.ca' <fawn.sault@mncfn.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*



A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:12 PM  
**To:** Megan.DeVries@mncfn.ca  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Mississaugas of the Credit First Nation\_Megan DeVries.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Mississaugas of the New Credit First Nation as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:42 AM  
**To:** 'Megan.DeVries@mncfn.ca' <Megan.DeVries@mncfn.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:11 PM  
**To:** Mark.LaForme@mncfn.ca  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Mississaugas of the Credit First Nation\_Mark Laforme.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Mississaugas of the New Credit First Nation as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:41 AM  
**To:** 'Mark.LaForme@mncfn.ca' <Mark.LaForme@mncfn.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:12 PM  
**To:** markhill@sixnation.ca  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Six Nations\_Chief Mark Hill.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Six Nations of the Grand River Territory as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:40 AM  
**To:** 'markhill@sixnation.ca' <markhill@sixnation.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:13 PM  
**To:** 'lonnybomberry@sixnations.ca'  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Six Nations\_Lonny Bomberry.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Six Nations of the Grand River Territory as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:40 AM  
**To:** 'lonnybomberry@sixnations.ca' <lonnybomberry@sixnations.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,



On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:14 PM  
**To:** rlinn@sixnations.ca  
**Cc:** Adam Gilmore; 'Brandon Buehler' (BBuehler@centrewellington.ca); Paul Ziegler; Lindsay Scott  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Six Nations\_Robbin Vanstone.pdf

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Six Nations of the Grand River Territory as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:40 AM  
**To:** 'rlinn@sixnations.ca' <rlinn@sixnations.ca>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*



A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Laura DeSaulniers <LauraD@metisnation.org>  
**Sent:** Monday, August 8, 2022 2:45 PM  
**To:** Shari Page  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Hi Shari!

Thank you again for following up on your emails, this is my contact information below. I am waiting for a work cell phone but my personal number is 807 823 1534 and that can be used for the time being.

Kind Regards,  
Laura Desaulniers (she/her)  
Lands, Resources & Consultations (LRC) Branch Coordinator  
Métis Nation of Ontario  
Thunder Bay, ON  
E: [Laurad@metisnation.org](mailto:Laurad@metisnation.org)  
C:  
W: [www.metisnation.org](http://www.metisnation.org)

---

**From:** Shari Page <spage@tritoneng.on.ca>  
**Sent:** Thursday, July 21, 2022 4:16 PM  
**To:** Consultations <Consultations@metisnation.org>  
**Cc:** Adam Gilmore <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>; Paul Ziegler <PZiegler@tritoneng.on.ca>; Lindsay Scott <lscott@tritoneng.on.ca>  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with the Metis Nation as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)



This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page

**Sent:** Thursday, June 9, 2022 11:43 AM

**To:** 'consultations@metisnation.org' <[consultations@metisnation.org](mailto:consultations@metisnation.org)>

**Cc:** 'Adam Gilmore' <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' ([BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>

**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

**Attention:** This email originated from outside the **MNO**. Please use caution when clicking links, opening attachments or replying to requests for account information or funds.



## Lindsay Scott

---

**From:** Tammy Martin <tammymartin@sixnations.ca>  
**Sent:** Monday, August 8, 2022 4:09 PM  
**To:** Shari Page  
**Cc:** Tayler Hill  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Received with thanks.

Tammy Martin  
COS, SNGREC  
[tammymartin@sixnations.ca](mailto:tammymartin@sixnations.ca)  
cell 519.717.5637

---

**From:** Shari Page <spage@tritoneng.on.ca>  
**Sent:** August 8, 2022 2:53 PM  
**To:** Tammy Martin <tammymartin@sixnations.ca>  
**Cc:** Tayler Hill <tayler.hill@sixnations.ca>  
**Subject:** FW: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Importance:** High

Good afternoon Tammy,

Thank you again for your time and assistance today.

As per our conversation, the attached *Notice of Completion* and following emails were sent from myself to Chief Hill on June 9<sup>th</sup> with follow up on July 21, 2022. I also sent individual letters to both Robbin Vanstone and Lonny Bomberry.

Tayler, I hope you don't mind me including you in this discussion as well. As per Tammy's direction, I understand you are mentoring alongside Mr. Bomberry until his retirement. I would therefore like to include you in future correspondence.

As I also mentioned, the Township along with Triton Engineering will be following up with a Stage 2 to this Class EA PFR - Archaeological and Heritage Impact Assessments.

If you would both be so kind as to confirm that you have received this email, it would be very much appreciated.

Should you have any questions, please don't hesitate to contact me.

Kindest regards,  
Shari

Shari Page





Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:12 PM  
**To:** 'markhill@sixnation.ca' <[markhill@sixnation.ca](mailto:markhill@sixnation.ca)>  
**Cc:** 'Adam Gilmore' <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' ([BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>; Paul Ziegler <[PZiegler@tritoneng.on.ca](mailto:PZiegler@tritoneng.on.ca)>; Lindsay Scott <[lscott@tritoneng.on.ca](mailto:lscott@tritoneng.on.ca)>  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good Afternoon,

The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with Six Nations of the Grand River Territory as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:40 AM  
**To:** 'markhill@sixnation.ca' <[markhill@sixnation.ca](mailto:markhill@sixnation.ca)>  
**Cc:** 'Adam Gilmore' <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' ([BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION



Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## Lindsay Scott

---

**From:** Shari Page  
**Sent:** Monday, August 8, 2022 2:59 PM  
**To:** 'info@hdi.land'  
**Subject:** FW: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION  
**Attachments:** M6186A NOC\_Haudenosaunee Confederacy.pdf  
**Importance:** High

Good afternoon Tracey,

Thank you for your time and assistance today.

As per our conversation, I am resending the Notice of Completion correspondence sent on June 9<sup>th</sup> with follow up on July 21<sup>st</sup>, 2022.

As I also mentioned, the Township along with Triton Engineering will be following up with a Stage 2 to this Class EA PFR - Archaeological and Heritage Impact Assessments.

If you would be so kind as to confirm that you have received this email, it would be very much appreciated.

Should you have any questions, please don't hesitate to contact me.

Enjoy your day!  
Shari

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, July 21, 2022 4:05 PM  
**To:** 'info@hdi.land' <info@hdi.land>  
**Cc:** 'Adam Gilmore' <AGilmore@centrewellington.ca>; 'Brandon Buehler' (BBuehler@centrewellington.ca) <BBuehler@centrewellington.ca>; Paul Ziegler <PZiegler@tritoneng.on.ca>; Lindsay Scott <lscott@tritoneng.on.ca>  
**Subject:** RE: TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good afternoon,



The Township of Centre Wellington sent the attached Notice of Completion for the Municipal Class Environmental Assessment for the Replacement of the Trunk Storm Sewer at Victoria Crescent, Elora to you via registered mail and email, which we have not received acknowledgement of receipt. We recognize the importance of consultation with the Haudenosaunee Confederacy as part of the Municipal Class Environmental Assessment process; therefore, we are reaching out to offer separate engagement sessions with the Project Team via virtual meeting to discuss the project findings, if preferred. We will also follow-up via telephone to confirm receipt of the Notice of Completion and to coordinate a separate engagement session, if preferred.

Kind regards,

Shari Page



Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.

---

**From:** Shari Page  
**Sent:** Thursday, June 9, 2022 11:42 AM  
**To:** 'info@hdi.land' <[info@hdi.land](mailto:info@hdi.land)>  
**Cc:** 'Adam Gilmore' <[AGilmore@centrewellington.ca](mailto:AGilmore@centrewellington.ca)>; 'Brandon Buehler' ([BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)) <[BBuehler@centrewellington.ca](mailto:BBuehler@centrewellington.ca)>  
**Subject:** TOWNSHIP OF CENTRE WELLINGTON, CLASS EA, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, ON - NOTICE OF STUDY COMPLETION

Good morning,

On behalf of the Township of Centre Wellington, please find attached, *NOTICE OF STUDY COMPLETION, Schedule B, Municipal Class Environmental Assessment, for the Township of Centre Wellington, Replacement of Trunk Storm Sewer, Victoria Crescent, Elora, Ontario.*

A Notice of Completion letter and USB containing the complete Project File Report (PFR) has been sent to you by registered mail.

Should you have any questions or require further clarification to the attached, please do not hesitate to contact our office.

Kind regards,  
Shari

Shari Page





Triton Engineering Services Limited  
105 Queen Street West, Unit 14 Fergus, ON N1M 1S6  
Tel - (519) 843-3920 • Fax - (519) 843-1943 • [www.tritoneng.on.ca](http://www.tritoneng.on.ca)

This email message and any files transmitted with it are proprietary and confidential information of the sender and are intended only for the person(s) to whom this email is addressed. If you have received this email message in error, please notify the sender immediately by telephone or email and destroy the original message without making a copy.



## **Appendix M**

### **Proposed Scoped Environmental Impact Study (Aboud, November 2017)**





190 Nicklin Road  
Guelph, Ontario  
N1H 7L5

T: 519.822.6839

F: 519.822.4052

info@aboudtng.com

www.aboudtng.com

URBAN FORESTRY  
ARBORIST REPORTS  
MANAGEMENT PLANS  
TREE PRESERVATION PLANS  
TREE RISK ASSESSMENT  
GIS TREE INVENTORIES  
TREE APPRAISALS  
MONITORING

ECOLOGICAL RESTORATION  
NATURAL SYSTEMS DESIGN  
HABITAT RESTORATION  
EDGE MANAGEMENT PLANS  
RAVINE STEWARDSHIP PLANS  
NATURALIZATION PLANS  
INTERPRETIVE DESIGN  
MONITORING  
CONTRACT ADMINISTRATION

ENVIRONMENTAL STUDIES  
SUBWATERSHED STUDIES  
ENVIRONMENTAL IMPACT  
STATEMENTS  
ECOLOGICAL LAND  
CLASSIFICATION  
WETLAND EVALUATION  
VEGETATION ASSESSMENT  
BOTANICAL INVENTORIES  
WILDLIFE SURVEYS  
MONITORING

LANDSCAPE ARCHITECTURE  
MASTER PLANNING  
RESIDENTIAL COMMUNITIES  
COMMERCIAL/INDUSTRIAL  
HEALTHCARE AND EDUCATION  
STREETSCAPES  
PARKS AND OPEN SPACES  
TRAIL SYSTEMS  
GREEN ROOFS  
CONTRACT ADMINISTRATION

EXPERT OPINION  
OMB TESTIMONY  
LEGAL PROCEEDINGS  
PEER REVIEW  
RESEARCH  
EDUCATION

November 21, 2017

Our Project No.: AA14-069A  
Sent by Email: lscott@tritoneng.on.ca

Lindsay Scott, P.Eng  
Triton Engineering Services Limited  
39 Elora Street South, Unit 7, 8 & 9  
P.O Box 159, Harriston, ON N0G 1Z0

**Re: Victoria Crescent Trunk Storm Sewer Replacement  
Proposal - Scoped Environmental Impact Study**

Dear Madame:

Thank you for requesting a fee proposal of the above captioned project. Aboud & Associates (AA) will use qualified professionals (e.g. ecologists, certified arborist and tree risk assessors, ecological restoration professional, and landscape architects, as needed) to conduct the work.

In preparing this proposal we reviewed the following information.

1. GRCA mapping (accessed November 3, 2017) of natural heritage features (e.g. regulation limit, GRCA and OMNR wetlands, ANSI's, and MNR Woodlands).
2. Wellington County GIS mapping (Explore Wellington, accessed October 24, 2017) of natural heritage features (e.g. wooded areas, MNR wetlands, watercourses)
3. Wellington County Official Plan, Schedule A1
4. Township of Centre Wellington Official Plan
5. Township of Centre Wellington Zoning By-law 2009-045
6. Natural Heritage Information Center, Make-a-map, accessed November 3, 2017.
7. Ontario Nature. Ontario Reptile and Amphibian Atlas: a citizen science project to map the distribution of Ontario's reptiles and amphibian. Accessed November 3, 2017.
8. Ontario Nature. Ontario Mammal Atlas. Accessed November 3, 2017.



## **PROJECT UNDERSTANDING AND BACKGROUND**

The Township of Centre Wellington has initiated the EA process in relation to the reconstruction of a storm water outfall in the Victoria Crescent area of the Town of Elora. As part of determining preferred options, the impacts of the proposed works on the surrounding natural heritage features must be quantified for each alternative.

The majority of the study area is within the Grand River Conservation Authority regulation limit, and contains lands along the Irvine Creek that are classified as Slope Erosion and Slope Valley areas.

The study area contains Core Greenland adjacent to both the Irvine Creek and Grand River within the Elora/Salem Urban Centre as designated by the County of Wellington Official Plan.

The study area contains Environmental Protection lands and those within the Environmental Protection overlay as well as lands designated as Open Space by the Township of Centre Wellington Zoning By-law 2009-045.

### Wellington County Official Plan

The County of Wellington Official Plan indicates that areas designated as Core Greenlands are those with greater sensitivity or significance and include:

- Provincially significant wetlands
- All other wetlands
- Habitat of endangered or threatened species and fish habitat; and
- Hazardous lands

Within the Core Greenlands designation, development and site alteration shall not be permitted within Provincially Significant Wetlands or in significant habitat or threatened or endangered species, except in accordance with provincial and federal requirements.

Where development is proposed in the Greenland system or on adjacent lands, the County or local municipality shall require the developer to:

- a) Identify the nature of the features potentially impacted by the development
- b) Prepare, where required, an environmental impact assessment to ensure that the requirements of this Plan will be met, and consider enhancement of the natural area where appropriate and reasonable.
- c) Address any other relevant requirements set out in Section 4.6.3 Environmental Impact Assessment.

Section 12.6.1 states that except as provided for in Section 4.13, the following uses may be permitted in any land use designation, subject to the provisions of the Zoning By-law.

- a) All electrical power facilities, including all works defined by the Power Corporation Act and telecommunications facilities and multi-use cables, provided that the development satisfies the provision of the Environmental Assessment Act, the Environmental Protection Act and any other relevant legislation;
- b) Utilities and services necessary for the transmission of municipal water, sewage, public roads, parking facilities and facilities for the detention, retention, discharge and treatment of storm water.



### Township of Centre Wellington Zoning By-law

The Township of Centre Wellington Zoning By-law No. 2009-045 section 9.1 states that within any Open Space (OS) Zone, no land shall be used and no building or structure shall be constructed, altered or used except in accordance with the following regulations. Permitted uses include:

- active recreation
- passive recreation
- a public park
- a recreation centre
- a sports park
- a public building
- a public use
- a cemetery
- a museum
- a library
- uses, buildings and structures accessory to the foregoing.

Section 9.2 states that within any Environmental Protection (EP) Zone, no land shall be used and no building or structure shall be constructed, altered or used except in accordance with the following regulations. Permitted uses include:

- Agricultural uses excluding new buildings and structures and new hobby barns on a lot that also contains land zones Agricultural
- Conservation and Resource Management
- Forest Management
- Fish and Wildlife Management
- Flood or erosion control facilities
- Passive recreation
- Uses, buildings and structures existing on the date of passing of this by-law
- Uses, buildings and structure accessory to the foregoing with the prior written approval of the Grand River Conservation Authority where applicable.

Section 9.2.3.2 states where the Environmental Protection overlay exists on a lot, development will not be allowed in significant wildlife or plant habitat, Areas of Natural and Scientific Interest, streams and valleylands, significant woodlands or Environmentally Significant Areas unless it has been demonstrated to the satisfaction of the Township that there will be no negative impact on the feature or their ecological function.

### Grand River Conservation Authority

The subject area contains a Riverine Erosion Hazard. Section 8.2.21 states that public infrastructure including but not limited to roads, sanitary sewers, utilities, water supply, wells, well houses, and pipelines, may be permitted in accordance with the policies in Section 7.1.2-7.1.3- General Policies, provided that:

- a) There is no feasible alternative site outside the Regulated Area as determined by an Environmental Assessment or other comprehensive plan supported by the GRCA, and
- b) A site-specific geotechnical or engineering assessment based on established provincial guidelines and an appropriate factor of safety establishes a more precise Riverine Erosion Hazard, and
- c) Where it can be demonstrated that:
  - a. There are no impacts on existing and future slope stability



- b. The risk of creating new Riverine Erosion Hazards or aggravating existing Riverine Erosion Hazards is minimized through site and infrastructure design and appropriate remedial measures,
- c. The potential of increased loading forces on the top of the slope is addressed through appropriate structure design
- d. The potential for surficial erosion is addressed by a drainage plan, and
- e. Where unavoidable, intrusions on significant natural features or hydrologic or ecological functions are minimized and it can be demonstrated that best management practices including site and infrastructure design and appropriate remedial measures will adequately restore and enhance features and functions.

The Provincial Policy Statement and the County's Official Plan indicate that natural heritage features shall be protected for the long term. Development may be permitted within Greenlands where an EIS demonstrates that there will be no negative impacts on the natural heritage resource. Consequently, an EIS should be prepared to demonstrate that the proposed development will not negatively impact the significant wetland or significant woodland. Terms of reference should be submitted to the County and the GRCA to ensure that the study will include the required information.



AA has located additional background natural heritage information related to the subject lands and adjacent lands.

1. The Ontario Reptile and Amphibian Atlas shows within a 10 km square of the subject lands, the recent and historical presence of 15 species of reptiles and amphibians. Including two species of Conservation Concern (Milksnake and Snapping Turtle).
2. The Natural Heritage Information Center indicates the presence of one species of conservation concern within 1km of the project location (Black Redhorse).
3. The Ontario Breeding Bird Atlas shows within a 10 km square of the subject lands, the recent and historical presence of 86 species of birds. Including eight species of conservation concern (Chimney Swift, Eastern Wood-pewee, Red-headed Woodpecker, Bank Swallow, Barn Swallow, Wood Thrush, Bobolink and Eastern Meadowlark).

This information indicates that there is a potential presence of additional natural heritage features and constraints that may require investigation and/or comment.

Below for your consideration are listed the study area, scope of work, deliverables, project timing, assumptions/limitations/terms, and cost.

#### **STUDY AREA**

The study area includes the alternative alignments provided by Triton Engineering and up to 120m surrounding each alignment.



## SCOPE OF WORK

The following list is the proposed scope of work for both the use of the existing outfall (Alignments 2 and 3) and the alternative of the new sewer and outfall proposed through Victoria Park (Alignments 4a and 4b). This scope of work has been developed based on correspondence with Jason Wagler of the Grand River Conservation Authority.

### Existing Outfall (Options 2 and 3)

1. Conduct two site visits to characterize vegetation communities using the ELC system (MNR) and complete a two season botanical inventory;
2. Conduct a breeding bird survey of the study area, following the protocol of the Ontario Breeding Bird Atlas (Bird Studies Canada, 2004). The breeding bird survey requires two, focused, early morning site visits during the period between late May and early July;
3. Investigate the study area for the presence of significant wildlife habitat, Species at Risk habitat and Species at Risk presence (e.g. Butternut).
4. Record observations of incidental wildlife during site visits;
5. Analyze findings and prepare a map that shows:
  - a. Identified natural heritage features, and functions and landscape level features (e.g. linkages, forest interior habitat)
  - b. The proposed site plan
  - c. ELC vegetation communities
  - d. Locations of other natural heritage features from background literature searches (e.g. mammal atlas, herpetofaunal atlas, County's OP, Township Zoning By-law)
6. Conduct an impact assessment by reviewing the proposed development's direct, indirect, and induced (i.e. residual, ongoing) impacts on the natural features. Provide an opinion about the location of the components of the site plan to reduce/avoid impacts to natural heritage features. Show the configuration of the proposed alignments relative to the existing outfall and assess for minimizing impacts to ecological features and functions. This will involve discussions with the proponent, Triton and AA.
7. Provide policy rationale for expected impacts to natural heritage features e.g. removal of trees and grading to accommodate the site plan.
8. Edge Management Guidelines and Compensation: Provide general recommendations of where and why naturalization treatments may be needed to protect vegetation features (e.g. Woodland) adjacent to development activity. Provide rationale and recommendations for tree compensation (e.g. where, why and how much)
9. Prepare a report of the EIS that includes background information, methods, existing conditions, proposed development, impact assessment and mitigation measures, and appendices of field studies (e.g. flora and ELC data sheets).



Proposed Outfall (Options 4a and 4b)

1. Conduct two site visits to characterize vegetation communities using the ELC system (MNRF) and complete a two season botanical inventory;
2. Conduct a breeding bird survey of the study area, following the protocol of the Ontario Breeding Bird Atlas (Bird Studies Canada, 2004). The breeding bird survey requires two, focused, early morning site visits during the period between late May and early July;
3. Investigate the study area for the presence of significant wildlife habitat, Species at Risk habitat and Species at Risk presence (e.g Butternut).
4. Delineate the dripline and evaluate the significance of the woodland within the study area.
5. Request and review background information from OMNR and GRCA related to fish records and potential habitat.
6. Complete a Thermal Impact Assessment involving pre- and post- construction monitoring. HOBO pendant temperature loggers would be installed at locations upstream and downstream of the proposed sewer outlet in Irvine Creek. Pre-construction monitoring would occur during spring/summer 2018, with post-construction monitoring occurring the spring/summer after construction is finished. Loggers will be installed by Aquafor Beech Limited staff at the beginning of the monitoring period and downloaded at the end of each monitoring period. Data will then be analyzed by Aquafor staff.
7. Conduct a Fish Community Survey within the study area. The survey will be conducted using a backpack electrofisher, and following Section 3: Module 1 of the Ontario Stream Assessment Protocol.
8. Complete a Fish Habitat Assessment within the study area using the point-transect sampling for channel structure, substrate, and bank conditions method (Section 4: Module 2) of the Ontario Stream Assessment Protocol.
9. Completion of report for the Thermal Impact Assessment, Fish Community survey results, and Fish Habitat Assessment results.
10. Slope stability assessment and impact analysis completed by a qualified engineer.
11. Analyze findings and prepare a map that shows:
  - a. Identified natural heritage features, and functions and landscape level features (e.g. linkages, forest interior habitat)
  - b. The proposed site plan
  - c. ELC vegetation communities
  - d. Locations of other natural heritage features from background literature searches (e.g. mammal atlas, herpetofaunal atlas, County's OP, Township Zoning By-law)
12. Conduct an impact assessment by reviewing the proposed development's direct, indirect, and induced (i.e. residual, ongoing) impacts on the natural features. Provide an



opinion about the location of the components of the site plan to reduce/avoid impacts to natural heritage features. Show the configuration of the proposed alignments relative to the existing outfall and assess for minimizing impacts to ecological features and functions. This will involve discussions with the proponent, Triton and AA.

13. Provide policy rationale for expected impacts to natural heritage features e.g. removal of trees and grading to accommodate the site plan.
14. Edge Management Guidelines and Compensation: Provide general recommendations of where and why naturalization treatments may be needed to protect vegetation features (e.g. Woodland) adjacent to development activity. Provide rationale and recommendations for tree compensation (e.g. where, why and how much)
15. Prepare a report of the EIS that includes background information, methods, existing conditions, proposed development, impact assessment and mitigation measures, and appendices of field studies (e.g. flora and ELC data sheets).



<b>Study Required</b>	<b>Existing Outfall (Options 2 and 3)</b>	<b>New Outfall (Options 4a and 4b)</b>
Ecological Land Classification (2 season) & botanical inventory	\$1000	\$1000
Breeding Bird Surveys	\$1000	\$1000
Species at Risk & Significant Wildlife Habitat Screening Assessment	\$200	\$200
Significant Woodland Evaluation	X	\$200
Review of background fisheries data, fish survey & habitat assessment	X	\$2,180
Thermal Impact Assessment	X	\$2,705
Fisheries report	X	\$1,700
DFO Self-Assessment/Request for Review	X	\$200
Slope Stability Assessment	X	\$TBD
Data Management	\$600	\$600
Mapping	\$1200	\$1200
EIS Report + Revisions	\$2000	\$2000
Travel	\$115	\$115
<b>TOTAL</b>	<b>\$6,115</b>	<b>\$13,090</b>

## **DELIVERABLES**

### **A. Scoped EIS**

1. Digital copies (in PDF) of a draft EIS report and drawing(s) will be provided to the client for internal review and comment.
2. Hard copies of the final version for submission to the client for distribution to the County and the client's file will be provided on request and billed out at cost.

## **PROJECT TIMING**

A draft report and figure(s) for internal review by the client can be prepared within six weeks following completion of the last field monitoring event, and receipt of all necessary plans (e.g. topographic plan of survey, site plan).



### **ASSUMPTIONS, LIMITATIONS AND TERMS**

This proposal and quotation is subject to the assumptions, limitations and terms listed below.

1. The client and their consultants will provide as needed, background materials (digitally and in hard copy) including topographic survey, site plan, grading, servicing, lighting, etc., in AutoCAD version 2014 (or previous) (e-Transmit).
2. The estimate of timing (detailed under Project Timing) is subject to availability of background information, receipt of plans as needed, receipt of authorization, GRCA response to the proposed terms of reference.
3. Client authorization will be requested and required prior to conducting the following work which is deemed additional to this fee proposal. These items will be billed as additional fees and expenses using our current billing rates.
  - a. Changes to the scope of work following review by the County and GRCA of the proposed EIS terms of reference, plans of survey, site plan or grading plan, or disclosure of new/changed information that will require additional work on our behalf.
  - b. Additional study requirements of the Town, County, GRCA, or authorized by the client, discoveries made through the course of the project such as Species at Risk (e.g. Butternut) and associated consultation with MNRF, or landscape architecture services.
  - c. Minor revisions from comments of the client / consulting team are included. Revisions / red-line comments from the reviewing agency/municipality are additional work.
  - d. No site meetings are included. Preparation for, and attendance to site meetings are additional. We anticipate **5** site visits to conduct the necessary field work for the EIS, all of which are included to this fee proposal.
4. Staking of the project work/disturbance limits for each alignment will be completed by the project surveyors prior to the commencement of field work by AA.
5. Invoices will be submitted following submission of deliverables or semi-monthly. Fees and expenses for approved additional/extra work will be billed separately and include task/expense descriptions.
6. The client will pay invoices within 30 days.
7. This quotation is valid for 30 days.
8. During the ongoing analysis of information and collected data, if a constraint or limitation is determined whereby the EIS cannot support an alignment option, we will provide advisement and stop work. Our fees for services rendered to that date would be to your account and payment of your account would be net 30-days.
9. If for some reason you should abandon this project or otherwise terminate in writing your need for our services, our fees for services rendered to that date would be to your account and payment of your account would be net 30-days.



### **COST**

Our cost to complete this investigation, provide the deliverables, and subject to the assumptions, limitations and terms is provided below.

<b>Item</b>	<b>A</b>	<b>Total *</b>
<b>A</b>	Scoped Environmental Impact Study- Existing Outfall (Options 2 and 3)	\$6,115.00
<b>B</b>	Scoped Environmental Impact Study- New Outfall (Options 4a and 4b)	\$13,090.00

\* Includes expenses, applicable taxes not included

Yours truly,

**ABOUD & ASSOCIATES INC.**

James Dennis

Partner, Arboriculture Lead

---

I, the undersigned (the Client) agree with the cost, scope of work/deliverables, and the assumptions, limitations and terms of this fee proposal, and to pay submitted invoices.

Please complete all sections below and return this document to our office by facsimile or email.

**Authorized by (the Client):**

---

Signature

Name, Title, Company (Print Clearly)

Date

S:\A+A Projects\2014\14-069A 200 Victoria Crescent\Proposal\Proposals\Working Docs Only\Latest\AA14-069 200 Victoria EIS Requirements.docx