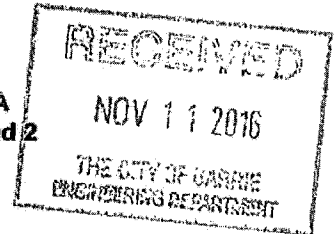


**APPENDIX N:
PUBLIC CONSULTATION**

SOPHIA CREEK WATERSHED & MULCASTER DRAINAGE AREA EA UPDATE
SUMMARY OF COMMENTS FROM PUBLIC INFORMATION CENTRE

Index Number	Representative For	Preferred Alternatives	Summary of Comments on Existing Drainage Concerns	Summary of Comments on Proposed Alternatives
1	Property Owner	2A, 2B, 3B, 4A	Very frequent flooding of MacMorrison Park - specifically ball diamond, culvert across east branch, park space on both sides creek downstream of ball diamond. Frequent flooding of Grove Street at culvert crossing. Ponding on pavement at St. Vincent Street and Rose Street and at St. Vincent Street at culvert crossing. Noted that very young children play at and in Bothwell culvert when stormwater is running.	Stressed creativity for MacMorrison Park SWMF - must be an amenity and should be used as an opportunity for urban renewal. Alternative 2A only preferred if it is treated as open space/amenity and not just a utility. Alternative 2B preferred as long as water table at Bothwell/Jonathan does not elevate. Many home owners are waterproofing, replacing weeping tiles, adding sump pumps. Some have installed drains under basement floors to separate sump pumps. Sump use is widespread in mid-late February and early March and typically ends mid-late June. For Alternative 3A the 1:25 anticipated climate change event may be insufficient design storm intensity. For Alternative 4B, noted that Mulcaster is too busy with new development, it is very costly and is in a well-head protection area. For Alternative 4D noted strong disapproval for digging up Dunlop Street. Preference is to maintain the existing storm sewer along Sophia as redundant/back-up and possibly use in-situ lining to extend its service life and maximize the asset. Suggested an underground SWM facility be constructed under the parking lot west of the library (lot at Clapperton between Macdonald/Sophia and Worsley) instead of a relief storm sewer along Dunlop Street. Questioned whether property owners with seasonal creek flooding at Wellington, Clapperton and Owen care about removing water from private property. Noted that lots are very deep with history of water flow.
2	Simcoe Community Services	2A, 3B, 4A	No comments provided	No comments provided
3	Property Owner	Not provided	Described development history for upper portion of Sophia Creek in the area of Grove Street, St. Vincent Street and Burbank Place. Notes that with heavy rain the area cannot drain fast enough even though a larger opening was made under St. Vincent Street. Notes that pollution within creek causes damming and the creek overflows on to gardens and neighbours' properties.	No comments provided
4	Property Owner	Not provided	No comments provided	Support 2A and 2B as a first option for the watershed upstream of Peel Street as it will provide stormwater management through large reduction in runoff. Noted that these options have the least cost and the best impact on neighbourhoods that the water flows through. Implementing these options would allow additional engineering time to assess if 3A, 3B, 4A or 4B should proceed as proposed.
5	Property Owner	2A	Has lived at 22 Howard Crescent for 17 years and has never seen Sophia Creek overflow into property or overflow the creek bank.	Noted that the deepening and widening of the creek behind house is unnecessary, would be disruptive to the variety of wild life and plants, and a waste of taxpayer dollars.
6	Property Owner	Not provided	Concerned with condition of drainage ditch that runs from Davidson Street to Currie Street. Has been complaining for over 5 years about condition as it is full of garbage and building material and as a result has been dammed off. The ditch has become a swamp as the water cannot drain away and is a health issue. Noted that since 1986 has never had a problem until now - neighbours for misusing creek, littering, etc has created the problem.	No comments provided
7	Property Owner	Not provided	No comments provided	With loss of MacMorrison Park, expressed concern about how much of Ferris Park will be used under Alternative 2B and what the visual effects will be. Expressed concerned about property values of homes around Ferris Park.
8	Property Owner	Not provided	Concerned about flooding on Howard/Lay.	Expressed hope that selected option will address issues in a fiscal manner and changes/problems will be monitored. Believes more frequent maintenance is required to keep vegetation within open channels at a reasonable level.
9	Property Owner	Not provided	In front of 4, 5,6 and 7 North Park Road there is significant ponding after a heavy rain that takes a long time to drain. Notes that drainage grates should be installed at this location as it especially dangerous in the winter.	No comments provided
10	Property Owner	Not provided	Expressed general concern with stormwater management and flood protection.	No comments provided
11	Property Owner	2A, 3B, 4A	No comments provided	No comments provided
12	Brereton Field Naturalists Club	Letter only.	See attached letter	See attached letter
13	Infrastructure Ontario	Letter only.	See attached letter and e-mail	No MOI lands are impacted by proposed works.
14	Ministry of Tourism, Culture and Sport	Letter only.	See attached letter	See attached letter
15	Ministry of Infrastructure	Letter only.	See attached letter	See attached letter
16	Lake Simcoe Region Conservation Authority	2A, 2B, 3B, 4A, 4D	No comments provided	The preferred alternative should be a blend of Alternatives 2A and 2B plus 100 year capacity in the drainage system.
17	Hiawatha First Nation	Letter only.	See attached letter	As per the Hiawatha First Nation Consultation Protocol, proposed project is deemed to have little, if any, impact on Hiawatha First Nation's traditional territory and/or rights. Hiawatha First Nation requests notification if archaeological artifacts are found as we require our trained archaeological liaisons be present at the archaeological sites during assessments and that any archaeological reports are sent to Hiawatha First Nation as they are completed. Any maps pertaining to the project should be sent to Hiawatha First Nation in a shape file. Hiawatha First Nation reserves the right to provide additional comment should further development result in additional potential impact on our traditional territory and rights.
18	Chippewa's of Rama First Nation	Letter only.	See attached e-mail	See attached letter e-mail

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT - PHASES 1 and 2**



Public Information Centre
Wednesday, October 26, 2016
4:00 p.m. to 7:00 p.m.
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COMMENT SHEET

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Please print all responses

NAME OF RESPONDENT:

REPRESENTING (Agency, Municipality, Property Owner, Tenant, etc.):

PROPERTY OWNER

ADDRESS (Including Postal Code & Telephone Number):

Street Address:

Unit/Apt:

Postal Code:

Telephone Number:

The Opportunity Statement, which sets the framework for this Class EA study, is as follows:

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Barrie Public Library
Downtown
Information Desk
60 Worsley Street
Barrie, ON L4M 1L6

Barrie Public Library
Painswick Branch
Information Desk
48 Dean Avenue
Barrie, ON L4N 0C2

Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

FLOODING OF PARK (MACMORISON) - BALL DIAMOND, CULVERT ACROSS EAST BRANCH, PARK SPACE BOTH SIDES CREEK DOWNSTREAM OF BALL DIAMOND - VERY FREQUENTLY

FLOODING GROVE ST AT CULVERT CROSSING - FREQUENTLY

FLOODING ON PAVEMENT ST. VINCENT + ROSE, ST. VINCENT + CULVERT CROSSING

VERY YOUNG CHILDREN PLAYING AT + IN BOTH WELL CULVERT

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

Please note that each of the alternatives listed below on their own will not resolve all the drainage issues within the Sophia Creek Watershed and the Mulcaster Drainage Area. The preferred alternative will be developed after the PIC in consideration of the feedback received on these comment sheets and as part of the PIC process.

Existing Condition **Alternative 1 – "Do Nothing"**

The "Do Nothing" alternative allows for the consideration of not implementing any changes to the existing drainage infrastructure within the study area. This alternative is being considered to provide a benchmark to gauge the physical, natural, social, cultural, and economic implications of the other alternatives.

Reducing the Amount of Runoff and/or Improving Water Quality **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

* Retrofit and expand existing Ottaway/Currie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility. - *ONLY IF TREATED AS OPEN SPACE/AMENITY + NOT ONLY A UTILITY*

 Alternative 2B – Low Impact Development LID

Low Impact Development or LID is an innovative approach that mimics the natural movement of water in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal right-of-way. These techniques are based on the principle of using stormwater as a resource. The specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

* *NO IS ONLY AS WATERABLE BOTH WELLS/JONATHAN DOES NOT ELEVATE*
 Sophia Watershed Upstream of Peel Street Drainage Area: *MANY HOMEOWNERS WATERPROOFING, REPLACING WEEDING TILES, ADDING SWAMP POND*

Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm
 Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm. *1:25 ANTICIPATED CLIMATE CHANGE EVENT MAY BE INSUFFICIENT, STORAGE*

Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm
 Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including either the 1:50 (for local and collector roads) or the 1:100 (for arterial roads) year return period design storm in accordance with the City's current design flood frequency design criteria. *INCREASE*

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area

Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements
 Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Streets and Owen Street from Sophia Street to Kempenfelt Bay via Memorial Square including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements
 Construct a 1:100 year return period design storm trunk sewer from Peel Street to Mulcaster Street including floodway route conveyance improvements through the downtown core. The sewer will require specialized tunnel construction procedures and acquisition of easements from private landowners for the sewer route. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.
MULCASTER TOO BUSY, ALL NEW DEVELOPMENT FROM SOPHIA TO LAKE. SPRAY PAD, PUMP BUILDING AT LAKESHORE, CURRENTLY WORKING AT LAKESHORE WITH COFFER DAM ETC. AS WELL AS VERY COSTLY ALSO WELLS (WELLHEAD PROTECTION AT LAKE).

SOME HAVE ALSO INSTALLED DRAINS UNDER BASEMENT FLOORS TO SEPARATE SUMP PUMPS. SUMPS START PUMPING MID-LATE JANUARY WITH MOST PUMPING MID-LATE FEB + EARLY MARCH (DISCHARGE EVERY 3 MIN), DISCHARGE RATES DROP TO NONE BY MID/END JUNE.

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area (continued ...)

2 Alternative 4C – Clapperton Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Clapperton Street, on Clapperton Street from Sophia Street to Bayfield Street, and on Bayfield Street from Clapperton Street to Kempenfelt Bay combined with a bypass trunk storm sewer on Dunlop Street from Bayfield Street to Maple Street and on Maple Street from Dunlop Street to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

2 Alternative 4D – Dunlop Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Street, on Owen Street from Sophia Street to Dunlop Street, on Dunlop Street from Owen Street to Mulcaster Street and on Mulcaster Street from Dunlop to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

DIGGING UP DUNLOP NOT A GOOD IDEA!

Please list below any concerns or comments you have related to any of the alternative solutions:

CAN EXISTING STORM SEWER AT SOPHIA BE MAINTAINED AS REDUNDANT/BACK-UP; CAN IN SITU LINING EXTEND ITS SERVICE LIFE. IT'S ALREADY IN PLACE, MAXIMIZE THE ASSET.

DO NOT WANT TO DIG UP DUNLOP FOR ANY REASON.

COULD AN UNDERGROUND SWM FACILITY BE CONSTRUCTED UNDER PARKING LOT WEST OF LIBRARY, IE LOT AT CLAPPERTON BETWEEN MACDONALD/SOPHIA + WORSLEY INSTEAD OF RELIEF STORM LINE ALONG DUNLOP? REPLACE PARKING LOT ON TOP OF SWM.

DO PROPERTY OWNERS WITH SEASONAL CREEK/FLOOD WELLINGTON, CLAPPERTON, OWEN CARE ABOUT REMOVING WATER FROM PRIVATE PROPERTY? LOTS ARE VERY DEEP WITH HISTORY OF WATER FLOW.

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/eastudies)?

- Poor**
(Much Improvement
Required)
- Marginal**
(Some Improvement
Required)
- Good**
- Very Good**
- Excellent**

Please add a comment in support of your level of satisfaction below:

SLLOT OF INFORMATION IN DOCUMENTS. COMMENT PERIOD
TOO SHORT, WOULD HAVE PREFERRED ANOTHER 1-2 WEEKS
TO DISCUSS WITH NEIGHBOURS WHO MAY NOT BE AWARE
OF STUDY.

NEED TO THINK CREATIVELY AS WELL AS PROBLEM SOLVING,
MACMORRISON PARK SWM, MUST BE AN AMENITY + IS ALSO
AN OPPORTUNITY FOR URBAN RENEWAL.

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes
- No

Signature: _____

Date: NOV. 10, 2016

Please submit this comment sheet by **Wednesday, November 09, 2016** to:

Mr. Lorrان Cooney, C.E.T. City of Barrie Engineering Department 70 Collier Street, P.O. Box 400 Barrie, ON L4M 4T5	Tel: (705) 726-4242 Fax: (705) 739-4243 E-mail: Lorrان.Cooney@barrie.ca
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Thank you for your comments

The City of
BARRIE

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT – PHASES 1 and 2**

Public Information Centre
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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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Existing Condition**2** **Alternative 1 – "Do Nothing"**

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Reducing the Amount of Runoff and/or Improving Water Quality**1** **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

Retrofit and expand existing Ottawa/Curie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.

2 **Alternative 2B – Low Impact Development LID**

Low Impact Development or LID is an innovative approach that manages the natural movement of water in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate water within a municipal right-of-way. These techniques are based on the principle of using stormwater as a resource. The specific facilities (underground infiltration facilities) recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right-of-way.

Sophia Watershed Upstream of Peel Street Drainage Area:**2** **Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.

1 **Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm**

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Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area**1** **Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

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2 **Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements**

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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- Poor**
 (Much Improvement Required)

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 (Some Improvement Required)

 Good

 Very Good

 Excellent

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to the General Committee?

- Yes

 No

Signature: _____

Date: Nov. 9/16.

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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Sophia Watershed Upstream of Peel Street Drainage Area: **Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

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 Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm

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Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area **Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

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 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

OCT 31 2016
 THE CITY OF BARRIE
 ENGINEERING DEPARTMENT

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/ea/studies)?

- | | | | | |
|---|---|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor
(Much Improvement
Required) | Marginal
(Some Improvement
Required) | Good | Very Good | Excellent |

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes No

Signature: _____ Date: _____

Please submit this comment sheet by **Wednesday, November 09, 2016** to:

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 City of Barrie
 Engineering Department
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 Barrie, ON
 L4M 4T5

Tel: (705) 726-4242
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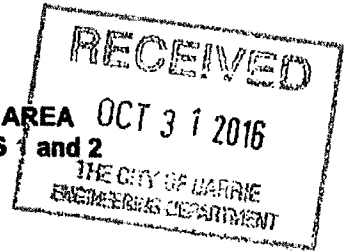
Thank you for your comments

Heading E on Grove Turn left onto
Lay. after 1 block you will see an empty
lot. on it is a natural spring.
When buildings were to be built at
Grove & St Vincent the East part was
a swamp. Board of Education added some
lot corner of Grove & St Vincent. The land
needed drainage so the builders put
pipes under Lay st & under Grove St
& the water from the spring (also rain)
was funnelled to the lowest point of the
swamp & it became a creek. no name was
ever told me. the creek runs between
Burbank place & lots for housing on them.
not enough drainage so a ditch was
dug along Pratt Road. The ditch across from
East of B of E lot. Here a pipe was put
under the road's ditch dug along the creek
this ditch is just along House lot 210 Grove
then B of E sold the lot to Shell Gas Company
They built a fence along the lot S - N Grove to
the creek it flows under St Vincent ^{west} & into the
pipe. The west of St V it did not along the creek take
all the spring & rain water across to where
another pipe would go over the creek goes
S into Bay. Over

With 3 heavy rains the area cannot drain fast enough even the larger opening was made for water under St V incert.

often some one has thrown things into creek that the force of water makes it into a dam & the creek overflows onto my garden etc. also neighbours'

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT - PHASES 1 and 2**



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Wednesday, October 26, 2016
4:00 p.m. to 7:00 p.m.
Huron Boardroom A and B - 2nd Floor City Hall

COMMENT SHEET

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Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

Please note that each of the alternatives listed below on their own will not resolve all the drainage issues within the Sophia Creek Watershed and the Mulcaster Drainage Area. The preferred alternative will be developed after the PIC in consideration of the feedback received on these comment sheets and as part of the PIC process.

Existing Condition

- Alternative 1 – "Do Nothing"**
The "Do Nothing" alternative allows for the consideration of not implementing any changes to the existing drainage infrastructure within the study area. This alternative is being considered to provide a benchmark to gauge the physical, natural, social, cultural, and economic implications of the other alternatives.

Reducing the Amount of Runoff and/or Improving Water Quality

- Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**
Retrofit and expand existing Ottaway/Currie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.
- Alternative 2B – Low Impact Development LID**
Low Impact Development or LID is an innovative approach that mimics the natural movement of water in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal right-of-way. These techniques are based on the principle of using stormwater as a resource. The specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

Sophia Watershed Upstream of Peel Street Drainage Area:

- Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**
Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.
- Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm**
Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including either the 1:50 (for local and collector roads) or the 1:100 (for arterial roads) year return period design storm in accordance with the City's current design flood frequency design criteria.

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area

- Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**
Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Streets and Owen Street from Sophia Street to Kempenfelt Bay via Memorial Square including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.
- Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements**
Construct a 1:100 year return period design storm trunk sewer from Peel Street to Mulcaster Street including floodway route conveyance improvements through the downtown core. The sewer will require specialized tunnel construction procedures and acquisition of easements from private landowners for the sewer route. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area (continued ...) **Alternative 4C – Clapperton Street Trunk Storm Sewer and Other Major Drainage Improvements**

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Clapperton Street, on Clapperton Street from Sophia Street to Bayfield Street, and on Bayfield Street from Clapperton Street to Kempenfelt Bay combined with a bypass trunk storm sewer on Dunlop Street from Bayfield Street to Maple Street and on Maple Street from Dunlop Street to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

 Alternative 4D – Dunlop Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Street, on Owen Street from Sophia Street to Dunlop Street, on Dunlop Street from Owen Street to Mulcaster Street and on Mulcaster Street from Dunlop to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

Please list below any concerns or comments you have related to any of the alternative solutions:

WE ATTENDED ON THE 26 OCT THE INFO SESSION.
WE WERE GREATLY IMPRESSED WITH ALL THE WORK
THAT HAD BEEN DONE, TO PRESENT THE MANY OPTIONS
THAT HAVE BEEN CONSIDERED. WE WOULD LIKE
TO SUPPORT 2(A) + 2(B) AS A FIRST OPTION
FOR THE WATERSHED UPSTREAM OF PEEL ST.

THEY WOULD ALLOW FOR STORM MANAGEMENT
OF A LARGE REDUCTION IN RUNOFF. WITH THE
LEAST AMOUNT OF COST AND AT THE SAME TIME
THE BEST IMPACT ON NEIGHBOURHOODS WHICH
THE WATER FLOWS THROUGH.

IF THIS WAS DONE FIRST IT WOULD
ALLOW ENGINEERING TIME TO ASSESS IF
3(A) & 4(A) WOULD BE NEEDED IN THE
SAME WAY THAT THEY PRESUMABLY ARE PURPOSED!

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/ea/studies)?

Poor
(Much Improvement
Required)

Marginal
(Some Improvement
Required)

Good

Very Good

Excellent

Please add a comment in support of your level of satisfaction below:

VERY WELL PRESENTED & THE STAFF
THAT WERE ON HAND WERE GOOD
AT EXPLAINING OUR CURRENT CONCERNS!

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

Yes

No

Signature:

[Redacted Signature]

Date:

27 OCT 16

Please submit this comment sheet by Wednesday, November 09, 2016 to:

Mr. Lorrان Cooney, C.E.T.
City of Barrie
Engineering Department
70 Collier Street, P.O. Box 400
Barrie, ON
L4M 4T5

Tel: (705) 726-4242
Fax: (705) 739-4243

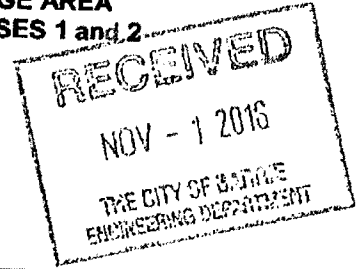
E-mail: Lorrان.Cooney@barrie.ca

Thank you for your comments

The City of
BARRIE

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT - PHASES 1 and 2**

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Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:



Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

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Existing Condition **Alternative 1 – "Do Nothing"**

The "Do Nothing" alternative allows for the consideration of not implementing any changes to the existing drainage infrastructure within the study area. This alternative is being considered to provide a benchmark to gauge the physical, natural, social, cultural, and economic implications of the other alternatives.

Reducing the Amount of Runoff and/or Improving Water Quality **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

Retrofit and expand existing Ottawa/Currie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.

 Alternative 2B – Low Impact Development LID

Low Impact Development or LID is an innovative approach that [redacted] order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal [redacted] are based on the principle of using stormwater [redacted] specific facilities (underground infiltration facilities) [redacted] are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

Sophia Watershed Upstream of Peel Street Drainage Area: **Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.

 Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including either the 1:50 (for local and collector roads) or the 1:100 (for arterial roads) year return period design storm in accordance with the City's current design flood frequency design criteria.

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area **Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Streets and Owen Street from Sophia Street to Kempenfelt Bay via Memorial Square including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer from Peel Street to Mulcaster Street including floodway route conveyance improvements through the downtown core. The sewer will require specialized tunnel construction procedures and acquisition of easements from private landowners for the sewer route. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

I have lived at 22 Howard Crescent for 17 years and have never had Sophia creek overflow onto my property or even overflow the creek bank.

The deepening and widening of the creek behind my house is unnecessary and would be most disruptive to my enjoyment of my backyard, disruptive to the variety of wildlife and plants, and a waste of my taxpayer dollars.

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/eastudies)?

- Poor**
(Much Improvement Required)
- Marginal**
(Some Improvement Required)
- Good**
- Very Good**
- Excellent**

Please add a comment in support of your level of satisfaction below:

Binder I viewed at the library was massive, and somewhat intimidating, however I persevered and found it comprehensive and complete.

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes
- No

Signature: _____

Date: Oct 24/2016

Please submit this comment sheet by Wednesday, November 09, 2016 to:

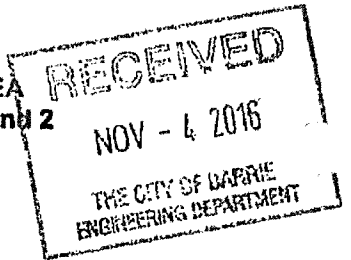
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Thank you for your comments

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT – PHASES 1 and 2**



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Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

MY CONCERN IS THE CONDITION OF THE DRAINAGE
DITCH THAT RUNS FROM DAVIDSON ST TO CURRIE ST
IT RUNS BEHIND MY LOT. I HAVE BEEN COMPLAINING
FOR OVER 5 YEARS AS TO ITS CONDITION ->

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

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Reducing the Amount of Runoff and/or Improving Water Quality **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

Retrofit and expand existing Ottawa/Curie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.

 Alternative 2B – Low Impact Development LID

Low Impact Development or LID is an innovative approach to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a watershed. LID's are based on the principle of using stormwater specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Arnie Goodall parks as well as road right of ways.

Sophia Watershed Upstream of Peel Street Drainage Area: **Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.

 Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including either the 1:50 (for local and collector roads) or the 1:100 (for arterial roads) year return period design storm in accordance with the City's current design flood frequency design criteria.

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area **Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Streets and Owen Street from Sophia Street to Kempenfelt Bay via Memorial Square including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

IT HAS BEEN DAMED OFF IS FULL OF GARBAGE AND BUILDING MATERIAL FROM THE TENANTS OF THE BUILDING ON CORRIE ST. WHAT WE HAVE NOW IS A SWAMP AS THE WATER CAN NOT DRAIN AWAY THIS IS ALSO A HEALTH ISSUE THE LANDLORD OF THIS COMPLEX SHOULD HAVE TO ERECT A FENCE AROUND IT TO STOP HIS TENANTS FROM PUTTING GARBAGE IN IT ALSO TO STOP THE PLOWING OF SNOW FROM THE PARKING LOT IN TO IT. I HAVE LIVED HERE SINCE 1986 AND NEVER HAD A PROBLEM TILL NOW

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/eastudies)?

Poor (Much Improvement Required)

Marginal (Some Improvement Required)

Good

Very Good

Excellent

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

Yes

No

Signature: _____

Date: Oct 31/16

Please submit this comment sheet by **Wednesday, November 09, 2016** to:

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Reducing the Amount of Runoff and/or [REDACTED] **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

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Low Impact Development or LID is an innovative approach that [REDACTED] order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal [REDACTED] are based on the principle of using stormwater [REDACTED] specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

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Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area **Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

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 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

LOSING ONE PARK (MACMORRISON) IS bad enough.
How much OF FERRIS Park IS Going to be
taken IF IT IS Decided to USE 2 B ALTERNATIVE
What will the visual effects be like? As FERRIS
IS Surrounded by homes, Will Property values be
affected?

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/eastudies)?

- Poor**
(Much Improvement
Required)
- Marginal**
(Some Improvement
Required)
- Good**
- Very Good**
- Excellent**

Please add a comment in support of your level of satisfaction below:

WEB SITE IS Explanatory but some OF The maps - legend
ARE Difficult To READ. They Are BLURRY.

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes
- No

Signature: _____

Date: Nov. 2, 2016

Please submit this comment sheet by **Wednesday, November 09, 2016** to:

Mr. Lorrان Cooney, C.E.T.
 City of Barrie
 Engineering Department
 70 Collier Street, P.O. Box 400
 Barrie, ON
 L4M 4T5

Tel: (705) 726-4242
 Fax: (705) 739-4243
 E-mail: Lorrان.Cooney@barrie.ca

Thank you for your comments

The City of
BARRIE

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT – PHASES 1 and 2**

Public Information Centre
Wednesday, October 26, 2016
4:00 p.m. to 7:00 p.m.
Huron Boardroom A and B – 2nd Floor City Hall

COMMENT SHEET

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Please print all responses

NAME OF RESPONDENT: _____

REPRESENTING (Agency, Municipality, Property Owner, Tenant, etc.): _____

ADDRESS (Including Postal Code & Telephone Number):

Street Address: _____

Unit/Apt: _____

Postal Code: _____

Telephone Number: _____

The Opportunity Statement, which sets the framework for this Class EA study, is as follows:

"Identify drainage deficiencies and recommend solutions to improve the Sophia Creek Watershed and Mulcaster Drainage Area storm drainage systems in consideration of impacts to the social, physical, cultural and economic environments."

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Downtown
Information Desk
60 Worsley Street
Barrie, ON L4M 1L6

Barrie Public Library
Painswick Branch
Information Desk
48 Dean Avenue
Barrie, ON L4N 0C2

Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

My concerns are flooding Howard/Lay. I am confident that this area has been flagged.

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

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Reducing the Amount of Runoff and/or Improving Water Quality **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

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Low Impact Development or LID is an innovative approach in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a managed landscape. LID's are based on the principle of using stormwater specific facilities (urban best management practices) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

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Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.

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Hopefully the experts will choose the options that will address many of the issues in a fiscal manner AND monitor changes/problems

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

whichever plan that has been selected, I think that more frequent maintenance is required to keep the open channels free from or cut back vegetation - At least a mid summer 'hair cut.'

* very pleased with communication regarding this issue and any time that I have had contact with roads/surface.

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/ea/studies)?

Poor (Much Improvement Required)

Marginal (Some Improvement Required)

Good

Very Good

Excellent

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

Yes

No

Signature: _____

Date: Oct 26/2016

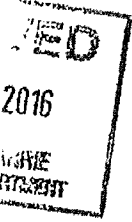
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Engineering Department
70 Collier Street, P.O. Box 400
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Tel: (705) 726-4242
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Thank you for your comments



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Please print all responses

NAME OF RESPONDENT:

REPRESENTING (Agency, Municipality, Property Owner, Tenant, etc.):

Prop. Owner

ADDRESS (Including Postal Code & Telephone Number):

Street Address:

Unit/Apt:

Postal Code:

Telephone Number:

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Barrie, ON L4M 1L6

Barrie Public Library
Painswick Branch
Information Desk
48 Dean Avenue
Barrie, ON L4N 0C2

Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

On North Park Rd in front of #'s 4, 6, 5, 7 there is a small lake left after a heavy rain. It takes a long time for this to drain. I recommend 1 or 2 additional drainage grates on this street at this location - Dangerous in winter time -

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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Reducing the Amount of Runoff and/or Improving Water Quality **Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

Retrofit and expand existing Ottaway/Currie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.

 Alternative 2B – Low Impact Development LID

Low Impact Development or LID is an innovative approach that mimics the natural hydrologic cycle in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal right-of-way. LID's are based on the principle of using stormwater specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

Sophia Watershed Upstream of Peel Street Drainage Area: **Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

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 Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm

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 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer from Peel Street to Mulcaster Street including floodway route conveyance improvements through the downtown core. The sewer will require specialized tunnel construction procedures and acquisition of easements from private landowners for the sewer route. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/ea/studies)?

- | | | | | |
|---|---|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Poor
(Much Improvement
Required) | Marginal
(Some Improvement
Required) | Good | Very Good | Excellent |

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes No

Signature: _____

Date: _____

Please submit this comment sheet by **Wednesday, November 09, 2016** to:

Mr. Lorrان Cooney, C.E.T.
 City of Barrie
 Engineering Department
 70 Collier Street, P.O. Box 400
 Barrie, ON
 L4M 4T5

Tel: (705) 726-4242
 Fax: (705) 739-4243

E-mail: Lorrان.Cooney@barrie.ca

Thank you for your comments

The City of
BARRIE

**SOPHIA CREEK WATERSHED AND MULCASTER DRAINAGE AREA
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT - PHASES 1 and 2**

Public Information Centre
Wednesday, October 26, 2016
4:00 p.m. to 7:00 p.m.
Huronia Boardroom A and B - 2nd Floor City Hall

RECEIVED

OCT 18 2016

THE CITY OF BARRIE
ENGINEERING DEPARTMENT

COMMENT SHEET

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Please print all responses

NAME OF RESPONDENT:

REPRESENTING (Agency, Municipality, Property Owner, Tenant, etc.):

House AT

ADDRESS (Including Postal Code & Telephone Number):

Street Address:

Unit/Apt:

BARRIE ON

Postal Code:

Telephone Number:

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Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

I HAVE RESIDED IN BARRIE FOR 80 YRS & WE ALL
(WHO ARE OLD ENOUGH) TO REMEMBER "HURICANE HAZEL"
AROUND 1955-1960, I LIVED AT 30 NEWTON ST THEN
OUR PROBLEM STARTED AT ST VINCENT ST - ON TO
GUN & BAREY AREA - TO PEEL & THEN DOWNTOWN

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please list below any concerns or comments you have related to any of the alternative solutions:

I THINK THIS IS A GOOD PLAN - AS WE DID HAVE HUGE FLOODING PROBLEMS AT THAT TIME KEEP UP THE GOOD WORK!

P.S.

PLEASE LET THAT LAKESHORE DONE " WE GO TO THE LAKE MOST EVERY NITE & IT SURE WOULD BE NICE TO SEE THAT BRIDGE IN PLACE & THE MESS CLEANED UP. I WONDER IF I WILL LIVE LONG ENOUGH TO SEE IT COMPLETED - THANKS PAUL -

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/ea/studies)?

- Poor**
(Much Improvement Required)
- Marginal**
(Some Improvement Required)
- Good**
- Very Good**
- Excellent**

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

- Yes
- No

Signature: _____

Date: Oct 13, 2016

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Mr. Lorrان Cooney, C.E.T.
 City of Barrie
 Engineering Department
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 Barrie, ON
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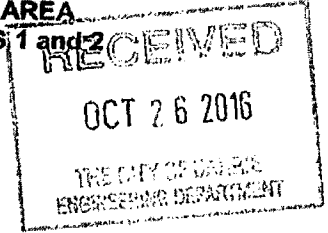
Tel: (705) 726-4242
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 E-mail: Lorrان.Cooney@barrie.ca

Thank you for your comments

The City of
BARRIE

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

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- Poor**
 (Much Improvement Required)

 Marginal
 (Some Improvement Required)

 Good

 Very Good

 Excellent

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to the General Committee?

Yes

 No

Signature:  Date: OCT. 17 2016

Please submit this comment sheet by ~~Wednesday~~, **November 09, 2016** to:

Mr. Lorrان Cooney, C.E.T.
 City of Barrie
 Engineering Department
 70 Collier Street, P.O. Box 400
 Barrie, ON
 L4M 4T5

Tel: (705) 726-4242
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Thank you for your comments

The City of
BARRIE

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Please print all responses

NAME OF RESPONDENT:

Tom Hogenbirk

REPRESENTING (Agency, Municipality, Property Owner, Tenant, etc.):

L.I.S.R.C.A.

ADDRESS (Including Postal Code & Telephone Number):

Street Address: *120 Bayview Parkway* Unit/Apt:

Postal Code: *L3Y 3W3* **Telephone Number:** *705-995-1281*

The Opportunity Statement, which sets the framework for this Class EA study, is as follows:

"Identify drainage deficiencies and recommend solutions to improve the Sophia Creek Watershed and Mulcaster Drainage Area storm drainage systems in consideration of impacts to the social, physical, cultural and economic environments."

A PDF version of the Draft ESR is available online on the City of Barrie web page (www.barrie.ca/eastudies) for "Class EA" and selecting "Sophia Creek Watershed Master Drainage Plan Update and Mulcaster Drainage Area Master Drainage Plan Municipal Class EA Phase 1 & 2". A paper copy of the Draft ESR is available for review at the following locations during regular business hours:

City of Barrie
Clerk's Office
City Hall, 1st Floor
70 Collier Street
Barrie, ON L4M 4T5

City of Barrie
Engineering
City Hall, 6th Floor
70 Collier Street
Barrie, ON L4M 4T5

Barrie Public Library
Downtown
Information Desk
60 Worsley Street
Barrie, ON L4M 1L6

Barrie Public Library
Painswick Branch
Information Desk
48 Dean Avenue
Barrie, ON L4N 0C2

Please list below any specific drainage concerns other than those located on private property you are aware of within the Sophia Creek watershed or Mulcaster Drainage Area:

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Please select which of the following alternatives you feel best addresses the drainage problems and generates the greatest positive impacts while producing the least negative impacts on the physical, natural, social, cultural and economic environments. Please rank by inserting either a "1" (most preferred) or a "2" (least preferred) in each box.

Please note that each of the alternatives listed below on their own will not resolve all the drainage issues within the Sophia Creek Watershed and the Mulcaster Drainage Area. The preferred alternative will be developed after the PIC in consideration of the feedback received on these comment sheets and as part of the PIC process.

Existing Condition**2 Alternative 1 – "Do Nothing"**

The "Do Nothing" alternative allows for the consideration of not implementing any changes to the existing drainage infrastructure within the study area. This alternative is being considered to provide a benchmark to gauge the physical, natural, social, cultural, and economic implications of the other alternatives.

Reducing the Amount of Runoff and/or Improving Water Quality**1 Alternative 2A – Retrofit/New Storm Water Management Facilities (SWMF)**

Retrofit and expand existing Ottaway/Currie Street Stormwater Management Facility and convert MacMorison Park into a Stormwater Management Facility.

1 Alternative 2B – Low Impact Development LID

Low Impact Development or LID is an innovative approach that mimics the natural movement of water in order to manage stormwater (rainwater and urban runoff) close to where it falls. LID's infiltrate, filter, store, evaporate, and detain stormwater within a municipal right-of-way. These techniques are based on the principle of using stormwater as a resource. The specific facilities (underground infiltration facilities) being recommended are in Ferris, Bernick, Cook and Archie Goodall parks as well as road right of ways.

Sophia Watershed Upstream of Peel Street Drainage Area:**2 Alternative 3A - Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:25 Year Storm**

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including the 1:25 year return period design storm.

1 Alternative 3B – Culvert / Watercourse / Major Storm Sewer Improvements to Convey the 1:50 or 1:100 Year Storm

Culvert, watercourse and major storm sewer improvements to reduce flooding within the Sophia Watershed upstream of Peel Street up to and including either the 1:50 (for local and collector roads) or the 1:100 (for arterial roads) year return period design storm in accordance with the City's current design flood frequency design criteria.

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area**1 Alternative 4A – Owen Street Trunk Storm Sewer and Other Major Drainage Improvements**

Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Streets and Owen Street from Sophia Street to Kempenfelt Bay via Memorial Square including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

2 Alternative 4B – Mulcaster Street Trunk Storm Sewer and Other Major Drainage Improvements

Construct a 1:100 year return period design storm trunk sewer from Peel Street to Mulcaster Street including floodway route conveyance improvements through the downtown core. The sewer will require specialized tunnel construction procedures and acquisition of easements from private landowners for the sewer route. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Sophia Watershed Downstream of Peel Street and Mulcaster Drainage Area (continued ...)

2 **Alternative 4C – Clapperton Street Trunk Storm Sewer and Other Major Drainage Improvements**
Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Clapperton Street, on Clapperton Street from Sophia Street to Bayfield Street, and on Bayfield Street from Clapperton Street to Kempenfelt Bay combined with a bypass trunk storm sewer on Dunlop Street from Bayfield Street to Maple Street and on Maple Street from Dunlop Street to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

1 **Alternative 4D – Dunlop Street Trunk Storm Sewer and Other Major Drainage Improvements**
Construct a 1:100 year return period design storm trunk sewer on Sophia Street from Peel Street to Owen Street, on Owen Street from Sophia Street to Dunlop Street, on Dunlop Street from Owen Street to Mulcaster Street and on Mulcaster Street from Dunlop to Kempenfelt Bay including floodway route conveyance improvements through the downtown core. This sewer can be constructed using conventional construction practices within the municipal right-of-way. Also, construct a new storm sewer along Sophia Street from Bayfield to Toronto streets to replace the existing storm sewer currently located under buildings.

Please list below any concerns or comments you have related to any of the alternative solutions:

The preferred alternative should be a blend of 2A / 2B plus 100 year capacity in the drainage system

Sophia Creek Watershed and Mulcaster Drainage Area Municipal Class EA Phase 1 & 2

Are you satisfied with the detail of the information presented herein, at the Public Information Centre, and provided on the City website (www.barrie.ca/eastudies)?

Poor
(Much Improvement
Required)

Marginal
(Some Improvement
Required)

Good

Very Good


Excellent

Please add a comment in support of your level of satisfaction below:

Do you wish to continue to be informed of the staff recommendations for the Preferred Alternative Solution that will be presented to General Committee?

Yes

No

Signature: 

Date: Nov 21/16

Please submit this comment sheet by Wednesday, November 09, 2016 to:

Mr. Lorrان Cooney, C.E.T. City of Barrie Engineering Department 70 Collier Street, P.O. Box 400 Barrie, ON L4M 4T5	Tel: (705) 726-4242 Fax: (705) 739-4243 E-mail: Lorrان.Cooney@barrie.ca
---	--

Thank you for your comments



HIAWATHA FIRST NATION
123 Paudash Street
Hiawatha, ON K9J 0E6

Chief:	Greg Cowie
Councillor:	Kirk Edwards
Councillor:	Lorne Paudash
Councillor:	Art Vowles
Councillor:	Katie Wilson

October 26, 2016

Dear Mr. Cooney:

Thank you for the information you sent to Hiawatha First Nation regarding the Sophia Creek Watershed Master Drainage Plan Update and the Mulcaster Drainage Area Master Drainage Plan which is being proposed within Hiawatha First Nation's Traditional and Treaty Territories. Hiawatha First Nation appreciates that the City of Barrie recognizes the importance of First Nations Consultation and that your office is conforming to the requirements within the Duty to Consult Process. The correspondence Hiawatha First Nation has received is not considered meaningful consultation but rather information sharing.

As per the Hiawatha First Nation Consultation Protocol, your proposed project is deemed to have little, if any, impact on Hiawatha First Nation's traditional territory and/or rights. Hiawatha First Nation requests you contact us if archaeological artifacts are found as we require our trained archaeological liaisons be present at the archaeological sites during the assessments. We also ask that you forward any archaeological reports to Hiawatha First Nation as they are completed. Any maps pertaining to the project should be sent to Hiawatha First Nation in a shape file.

Hiawatha First Nation reserves the right to provide additional comment should further development result in additional potential impact on our traditional territory and rights. Please be aware that while we request to be kept apprised throughout all phases of this project, we may not always have representation at all stakeholders meetings.

Further correspondence may be directed to my attention at the mailing address above or the e-mail address below.

Sincerely,

Lori Loucks
Core Consultation Worker
Hiawatha First Nation

lloucks@hiawathafn.ca
Tele: (705) 295-7771
Fax: (705) 295-7131

From: [Hollie Nolan](#) on behalf of [Chief Rodney Noganosh](#)
To: [Lorran Cooney](#)
Cc: [Chief Rodney Noganosh](#)
Subject: re: The City of Barrie – Sophia Creek Watershed Master Drainage Plan Update and Mulcaster Drainage Area Master Drainage Plan – Municipal Class Environmental Assessment Phases 1 and 2 Public Information Centre
Date: Wednesday, October 12, 2016 10:53:09 AM

Dear Lorran;

Thank you for your letter re: The City of Barrie – Sophia Creek Watershed Master Drainage Plan Update and Mulcaster Drainage Area Master Drainage Plan – Municipal Class Environmental Assessment Phases 1 and 2 Public Information Centre.

Please be advised that we reviewed your letter. I have shared it with Council and we've forwarded the information to Karry Sandy McKenzie, Williams Treaties First Nation Process Co-ordinator/Negotiator. Ms. McKenzie will review your letter and take the necessary action if required. In the interim, should you wish to contact Ms. McKenzie directly, please do so at k.a.sandy-mckenzie@rogers.com

Thank you,

Chief Rodney Noganosh

Hollie Nolan

Executive Assistant to the Chief, Administration

Chippewas of Rama First Nation

(ph) 705-325-3611,1216

(cell)

(fax) 705-325-0879

(url) www.ramafirstnation.ca

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By submitting your or another individual's personal information to Chippewas of Rama First Nation, its service providers and agents, you agree and confirm your authority from such other individual, to our collection, use and disclosure of such personal information in accordance with our privacy policy.

 Please consider the environment before printing this e-mail.

Ministry of Infrastructure

Communications Branch

8th Floor, Hearst Block
900 Bay Street
Toronto ON M7A 2E1
Telephone: 416-325-5146
Fax: 416-325-6688

Ministère de l'Infrastructure

Direction des communications

Édifice Hearst, 8^e étage
900, rue Bay
Toronto ON M7A 2E1
Téléphone : 416 325-5146
Télécopieur : 416 325-6688



October 24, 2016

Mr. Lorrان Cooney
Senior Infrastructure Planning Technologist
City of Barrie
70 Collier Street
PO Box 400
Barrie, Ontario
L4M 4T5

Dear Mr. Cooney:

Thank you for contacting the Ministry of Infrastructure.

Your letter is important to us, and has been forwarded to the appropriate ministry office for review.

Thank you for bringing your concerns to our attention.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Tansey".

Darlene Tansey
(A) Team Lead, Issues, Media Relations and Legislative Support

**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 7147
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 7147
Télé: 416 212 1802



November 21, 2016 (EMAIL ONLY)

Mr. Lorrان Cooney, C.E.T.
City of Barrie
Engineering Department
70 Collier Street, P.O. Box 400
Barrie, ON L4M 4T5
E: Lorrان.Cooney@barrie.ca

RE: MTCS file #: 0004856
Proponent: City of Barrie
Subject: Notice of Public Information Centre
Sophia Creek Watershed Drainage Plan Update and Mulcaster
Drainage Area Master Drainage Plan
Location: City of Barrie, Ontario

Dear Mr. Cooney:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Notice of Public Information Centre (PIC) for your project. MTCS's interest in this 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.

We were not able to meet the requested timeline for feedback as we did not receive the notice until November 8; please note our current address. However, we have reviewed the draft Environmental Study Report (ESR) and offer the following comments.

Built heritage resources (BHRs) and cultural heritage landscapes (CHLs) are not mentioned in the report, either in the description of the existing cultural environment or in the assessment of impacts of the alternatives. The MTCS *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* is normally used to determine whether an EA project may impact BHRs and CHLs, in which case it would be necessary to have a cultural heritage evaluation report and/or heritage impact assessment carried out by a qualified consultant and included in the EA process. Without any reference to the above-named checklist, it is unclear how or whether it was determined that the project will not impact BHRs or CHLs.

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 heritage.

The Stage 1 Archaeological Assessment Report carried out as part of this project recommends Stage 2 work for parts of the property. We hope that the results of this fieldwork, as they pertain to the proposed undertaking's footprint, will be incorporated into the final selection of the preferred alternative.

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,

Dan Minkin
Heritage Planner
Dan.Minkin@Ontario.ca

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.

Daniel Twigger - RE: Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update

From: "Kelly, Rita (IO)" <Rita.Kelly@infrastructureontario.ca>
To: Lorrان Cooney <Lorrان.Cooney@barrie.ca>, "Myslicki, Lisa (IO)" <Lisa.Mys...>
Date: 12/13/2016 1:23 PM
Subject: RE: Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update
Cc: Ralph Scheunemann <Ralph.Scheunemann@barrie.ca>, "Daniel Twigger(DTWIGGE...)"

Thank you for the confirmation that no MOI lands are impacted.

From: Lorrان Cooney [Lorrان.Cooney@barrie.ca]
Sent: Tuesday, December 13, 2016 9:13 AM
To: Kelly, Rita (IO) <Rita.Kelly@infrastructureontario.ca>; Myslicki, Lisa (IO) <Lisa.Myslicki@infrastructureontario.ca>
Cc: Ralph Scheunemann <Ralph.Scheunemann@barrie.ca>; Daniel Twigger (DTWIGGER@cctatham.com) <DTWIGGER@cctatham.com>
Subject: RE: Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update

Hi Rita / Lisa

I have investigated further, the lands considered under the ownership of MOI, MBS,MEI,MEDEI,MGS,OLC,ORC and PIR and offer the following:

1. Kings Highway 400 located between the Bayfield St Interchange and the St. Vincent Street highway crossing.
2. 85 Mulcaster St – MBS- PLAN 2 LOTS 127 AND 128 N/S MACDONALD ST LOT 132 PT LOT 133 S/S JAMES ST RP 51R1314
3. 81 Mulcaster St- 1646434 Ontario Inc - PLAN 2 LOT 129 TO 130 LOT 134 TO 135 PT LT 133 RP 51R20875 PART 1
4. 71-75 Mulcaster St –MBS-PLAN 2 LOTS 110 TO 113 N/S WORSLEY ST LOTS 117 TO 120 S/S MACDONALD ST

The Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update is being undertaken in accordance with the Schedule B Municipal Class Environmental Assessment (EA) Document as Amended 2015.

The EA project scope includes identifying drainage deficiencies within the study area and developing improvement options to mitigate the problems. The lands noted above are located within the watershed, of which only the Kings Highway 400 includes the Sophia Creek watercourse channel. The City of Barrie has not identified any proposed improvement works on lands within the ownership of the Provincial Agencies noted above. In that regard it would be appreciated that any drainage changes being proposed on any of the subject lands noted above be coordinated with the City of Barrie Engineering Department.

In further response to your letter, we will remove IO from the circulation list for this project since we do not anticipate that any MOI owned lands will be impacted and in the future will send only electronic copies of notices for any projects impacting IO managed lands.

We respectfully request that IO notify the City of Barrie if IO acquires any new lands within the study area.

I trust this information addresses the e-mail from Lui Brandon dated December 9, 2016, however should you require further information please do not hesitate to contact me and I will try to address your concerns.

Regards

From: Kelly, Rita (IO) [<mailto:Rita.Kelly@infrastructureontario.ca>]
Sent: Monday, December 12, 2016 3:07 PM
To: Lorrان Cooney
Cc: Ralph Scheunemann; Myslicki, Lisa (IO)
Subject: RE: Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update

Hi Lorrان,

If you provide me with the Parcel PIN numbers for the lands you believe may be MOI, I can assist you.

Rita

From: Lorrان Cooney [<mailto:Lorrان.Cooney@barrie.ca>]
Sent: Monday, December 12, 2016 2:41 PM
To: Kelly, Rita (IO) <Rita.Kelly@infrastructureontario.ca>
Cc: Ralph Scheunemann <Ralph.Scheunemann@barrie.ca>
Subject: Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update

Hello Ms. Kelly

Further to an e-mail from Lui Brandon dated December 9, 2016 (see attached) with regards to the Sophia Creek Watershed & Mulcaster Drainage Area Municipal Environmental Assessment Update EA Notice could you please identify the associated MOI lands that the City's study area directly impacts. It would be the City's understanding that Kings Highway 400 would be the only MOI lands located within the study area but your confirmation of this would be much appreciated.

To assist you, a PDF version of the Draft ESR is available online on the City of Barrie Web Page (www.barrie.ca/eastudies) for "Class EA" and selecting "Sophia Watershed Master Drainage Plan Update and Mulcaster Drainage Area Master Drainage Plan Municipal Class EA Phase 1 & 2."

A copy of the Notice of Public Information Center Letter is attached which also includes the City web site information to view the study documents for your assistance.

Once we have a clear understanding of the MOI land locations we would like to discuss what additional information that the MOI will specifically require for the Class Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update.

Ragards

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Response to:

Sophia Creek Watershed and Mulcaster Drainage Area Environmental Assessment Update

Municipal Class Environmental Assessment

LIDs = Low Impact Development (infiltration galleries, bioswales, porous pavement)

A close study of the document and extensive field observation of the watershed suggests, in short, that there is a problem of major proportions with respect to stormwater management in the Sophia Creek watershed. Essentially it is a dead creek because there is virtually no base flow. Therefore, we are dealing entirely with storm water exacerbated by urbanization in the 1960s, as far east as the original headwaters at Duckworth Street, in addition to the routing of stormwater from the area of Ferris Lane south under Highway 400 and on to Sophia Creek at MacMorrison Park on Grove Street. Finally, the building of houses on the Berczy Street "flood plain," in what could be called a "hydrological hole," was a past act of folly that has brought us to where we are now.

Downstream from Peel Street the present trunk diversion sewers need to be enlarged or additional ones constructed (at a cost of \$5.2 million for Owen Street and \$9.2 million for Mulcaster Street), with consequent disruption to property and commercial activity. If this were ever done (Alternative 4A and 4B), it would have to be a slow process.

The construction of Alternative 2B, or LIDs, at a cost of \$3.25 million in a number of parks and roads throughout the watershed is possible, but 62% of this would be for porous pavement on roadways which would only be practicable when present roadways need to be replaced. The remaining 38% would be for bioremediation and installation of pervious pipe in parks and beside roadways, although it should be noted that all of these measures will only reduce the 1:100 peak flow rate by 2-6 % because of the nature of the clay soil throughout the area. Therefore they would be of limited value on a cost- benefit basis as the document suggests. More importantly, however, the document also states that the installation of such LIDs would "attenuate peak flows from the more frequent storm events [thereby] reducing frequent nuisance flooding." On this basis the

LIDs could be of value, since it is the recurring floods every summer that have created the present situation.

Alternative 2A which includes the expansion of SWMF SPO3 at Ottaway Avenue for a total of \$1.01 million would provide the greatest possible benefit for the least amount of money, with respect to water quality and a flow rate reduction of 13%. In addition, construction of SWMF SPO1 at MacMorrison Park at a cost of \$1.7 million would give a flow rate reduction of 17%, for a combined flow rate reduction of 30% downstream of Grove Street.

The building of SPO1 at the corner of Grove Street and Bothwell Crescent in order to pick up any excess stormwater that might come from Ottaway Avenue would negatively impact the ball diamond. As an alternative, the pond could be constructed in the long linear area of MacMorrison Park that extends all the way to St. Vincent Street. It is certainly wide and long enough and would allow for easier maintenance in the future.

It is also possible to establish LIDs, for relatively little cost, in conjunction with both of these stormwater management facilities, which would further help to improve water quality.

Once again, the preceding flow rates have been determined for the 1:100 design flood frequency which would certainly help in mitigating a catastrophic storm event. More significantly-- and we cannot stress this point too much--it would mean that lesser storm events that occur repeatedly every summer would not come pouring down Sophia Creek into Kempenfelt Bay with every passing rainstorm. If these two stormwater facilities were built initially, the cost of culvert replacement and channel modification downstream of each of them, to satisfy the city's design flood frequency criteria of 1:100, would be reduced to \$10.2 million in contrast to \$14.8 million for Alternative 3B by itself.

Regrading of the channel from Grove Street to Berczy Street will be difficult given the steep topography and the proximity of private properties. It should avoid the pouring of concrete, the use of massive blocks of limestone or installation of gabions. Once established, trees and natural foliage are much more appealing. In any case it is all the more reason to limit flow rate rather than simply building bigger to accommodate it.

In general, the stream corridors should be naturalized throughout the watershed as much as possible and opened up where feasible. Bank stabilization should prioritize bio-remediation techniques rather than stone and concrete. This would also improve the habitat for birds and other small wildlife. Measures should be taken wherever culverts or other road crossings are being replaced to provide safer opportunities for small wildlife to pass through without having to risk the hazards of crossing a roadway.

The planting of trees throughout the watershed should also be increased to help reduce the rate and intensity of storm flows by having more rain hit the tree canopy first. This would mean increased planting on public lands, such as boulevards and parks, as well as a program to encourage tree planting and the implementation of LIDs on private properties. The additional shade and oxygen generated by the natural vegetation will also help to mitigate the urban heat island effect as climate change becomes more pronounced.

A further \$4.1 million, however, would be required for acquisition of seventeen properties throughout the watershed. Eight of these are located in the vicinity of the Berczy Street flood plain which would allow "daylighting" of the creek in a more naturalized channel. This would certainly eliminate complaints about flooding at this point but is of little aesthetic value since Sophia Creek is a dead creek that conveys only stormwater and therefore would achieve little at great expense and dislocation of homeowners. This situation should be monitored and addressed on an as needs basis only after the construction of SPO1 and SPO3.

Finally, with respect to Alternative 4A and 4B, any work downstream from Peel Street should be done last and should be monitored and addressed only after the construction of SWMF SPO1 and SPO3. According to the document it is the construction of these two stormwater management facilities that will "provide the greatest possible impact on the environment considering the water quality/flow reduction improvement options evaluated." It is essential to put the horse before the cart. It is only logical, as with all of the Barrie creeks, to deal with all stormwater at source and achieve the greatest reduction in flow rate and improvement of water quality for the least amount of money possible.

We encourage all possible actions to reduce the quantity and improve the quality of stormwater entering Kempenfelt Bay.

The City of Barrie needs to take action in this regard and proceed as soon as possible with Alternative 2A followed by Alternative 3B.

Submitted by:

Mark Fisher
Al McNair
Conservation Committee
Brereton Field Naturalists' Club
December 23, 2016

CITY HALL
70 COLLIER STREET
TEL. (705) 726-4242
FAX. (705) 739-4247

The City of
BARRIE
THE CORPORATION OF THE CITY OF BARRIE
Engineering Department
"Committed to Total Service Excellence"

P.O. BOX 400
BARRIE, ONTARIO
L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 56 Gunn Street, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear


The Engineering Department has updated the Schedule 'B' Municipal Class Environmental Assessment (EA) for the Sophia Creek and Mulcaster Drainage Area Master Drainage Plan (MDP) to determine the best solutions to the drainage problems. The MDP is an update to the initial study completed in 2002 which recommended solutions to culvert crossings, channel ways and stormwater facilities, and the acquisition of lands to complete the upgrades.

On November 6th, 2016, City Council approved the recommended preferred alternative for the MDP. The preferred alternative identifies various property acquisitions that are required for implementation. Attached is a drawing which illustrates the properties that are being recommended for acquisition. Since your property has been recommended, we would like to meet and discuss the long term implementation of this project at your earliest convenience. Please contact Mr. Lorrان Cooney at (705) 739-4220, extension 4514, or by email at Lorrان.Cooney@Barrie.ca.

A copy of the Class EA report for the MDP is available on the City of Barrie web page at www.barrie.ca/eastudies, then scrolling down to the Sophia Creek Watershed & Mulcaster Drainage Area MDP EA Update. A paper copy of the Final Draft Class EA is available for review at the City of Barrie Engineering Department on the 6th floor of City Hall during regular business hours (8:30am to 4:30pm).

If concerns are raised which cannot be resolved in discussion with the Corporation of the City of Barrie, the Minister of the Environment and Climate Change may be requested, subsequent to the filing of a Notice of Completion by the City of Barrie, to make an order for the project to comply with Part II of the Environmental Assessment Act (referred to as a Part II Order), which addresses individual Environmental Assessments. A Part II Order must be filed within thirty (30) calendar days of the City of Barrie filing a Notice of Completion and must be done so, in writing, to the Minister of the Environment and Climate Change's Honourable Chris Ballard at 77 Wellesley Street West, Ferguson Block 11th floor, Toronto, Ontario, M7A 2T5.

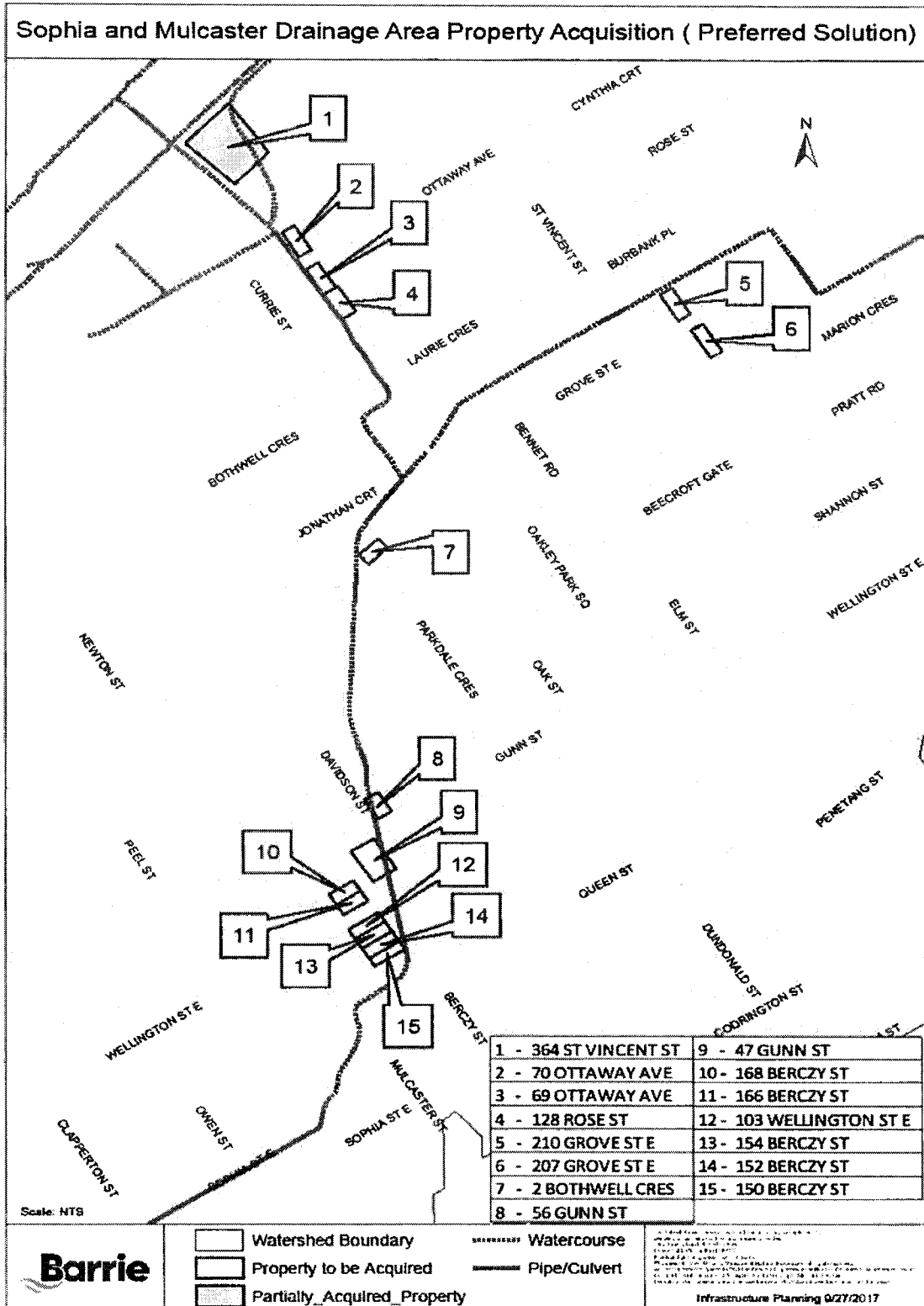
Yours truly,


Robert Sutton, P. Eng.
Director of Engineering

RS/ar

Attachment

Attachment



CITY HALL
70 COLLIER STREET
TEL. (705) 726-4242
FAX. (705) 739-4247

The City of
BARRIE
THE CORPORATION OF THE CITY OF BARRIE
Engineering Department
"Committed to Total Service Excellence"

P.O. BOX 400
BARRIE, ONTARIO
L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 150 Berczy Street, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

The Engineering Department has updated the Schedule 'B' Municipal Class Environmental Assessment (EA) for the Sophia Creek and Mulcaster Drainage Area Master Drainage Plan (MDP) to determine the best solutions to the drainage problems. The MDP is an update to the initial study completed in 2002 which recommended solutions to culvert crossings, channel ways and stormwater facilities, and the acquisition of lands to complete the upgrades.

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A copy of the Class EA report for the MDP is available on the City of Barrie web page at www.barrie.ca/eastudies, then scrolling down to the Sophia Creek Watershed & Mulcaster Drainage Area MDP EA Update. A paper copy of the Final Draft Class EA is available for review at the City of Barrie Engineering Department on the 6th floor of City Hall during regular business hours (8:30am to 4:30pm).

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Yours truly,

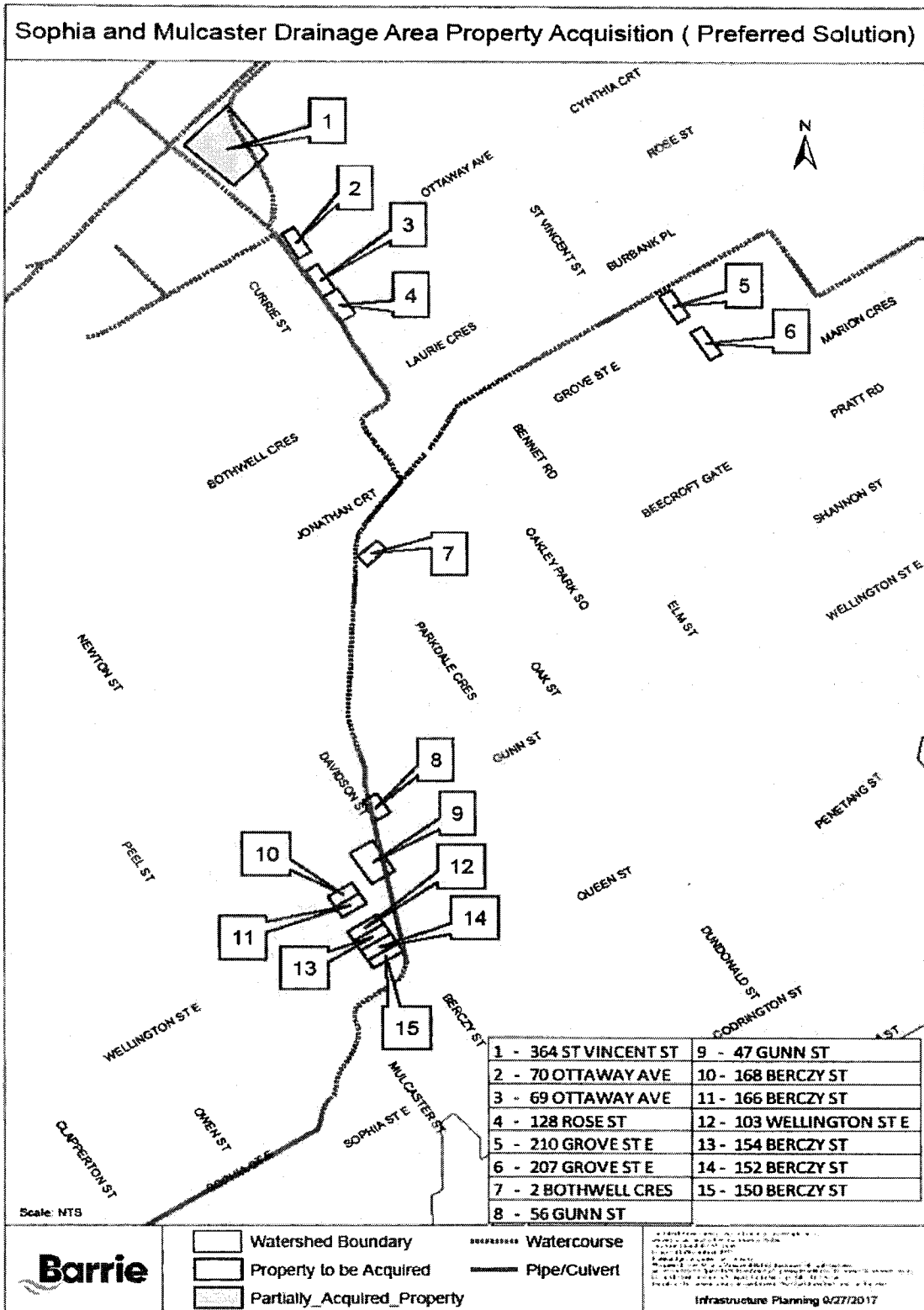


Robert Sutton, P. Eng.
Director of Engineering

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CITY HALL
70 COLLIER STREET
TEL. (705) 726-4242
FAX. (705) 739-4247

The City of
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THE CORPORATION OF THE CITY OF BARRIE
Engineering Department
"Committed to Total Service Excellence"

P.O. BOX 400
BARRIE, ONTARIO
L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 103 Wellington Street East, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

The Engineering Department has updated the Schedule 'B' Municipal Class Environmental Assessment (EA) for the Sophia Creek and Mulcaster Drainage Area Master Drainage Plan (MDP) to determine the best solutions to the drainage problems. The MDP is an update to the initial study completed in 2002 which recommended solutions to culvert crossings, channel ways and stormwater facilities, and the acquisition of lands to complete the upgrades.

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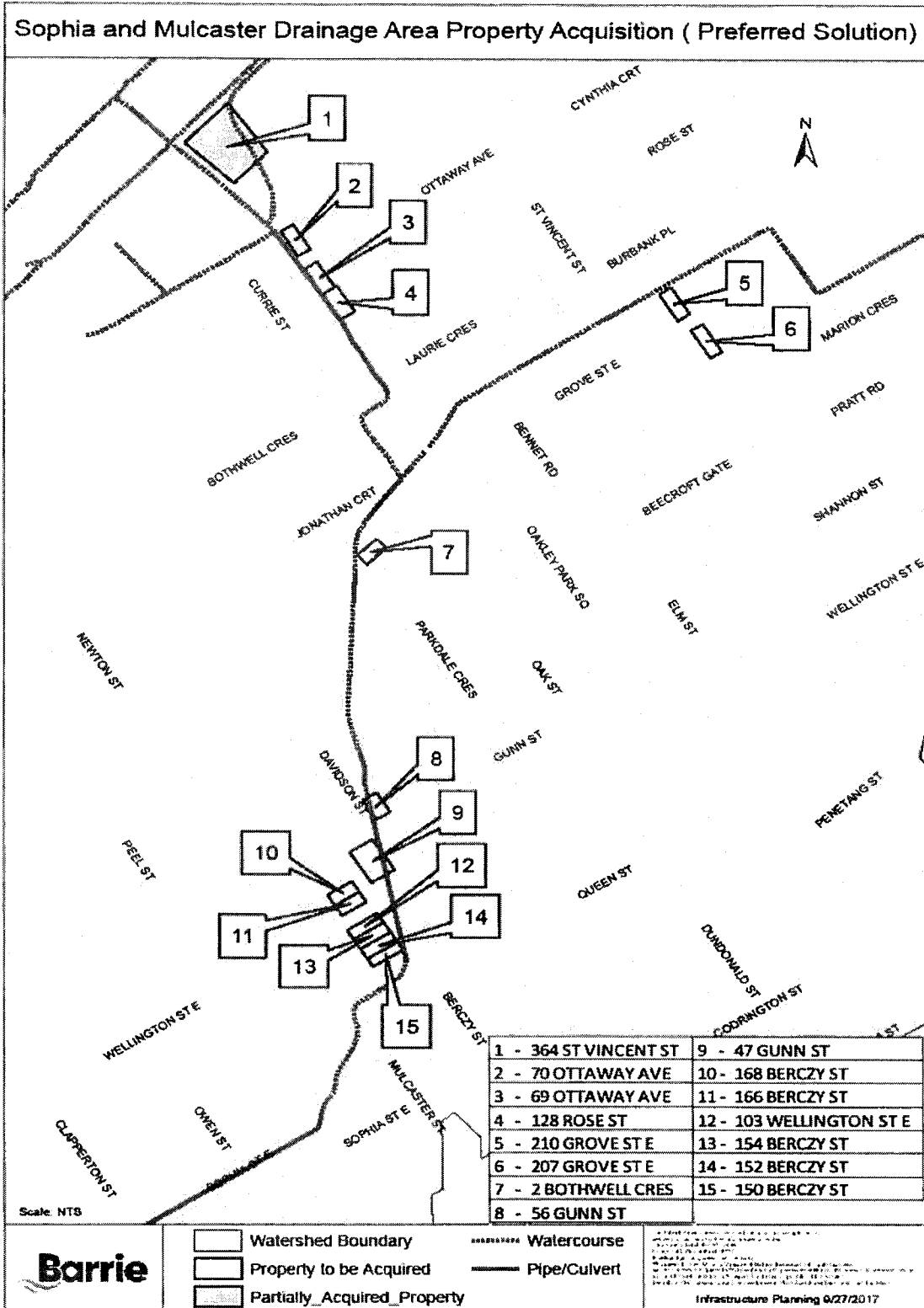


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 210 Grove Street East, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

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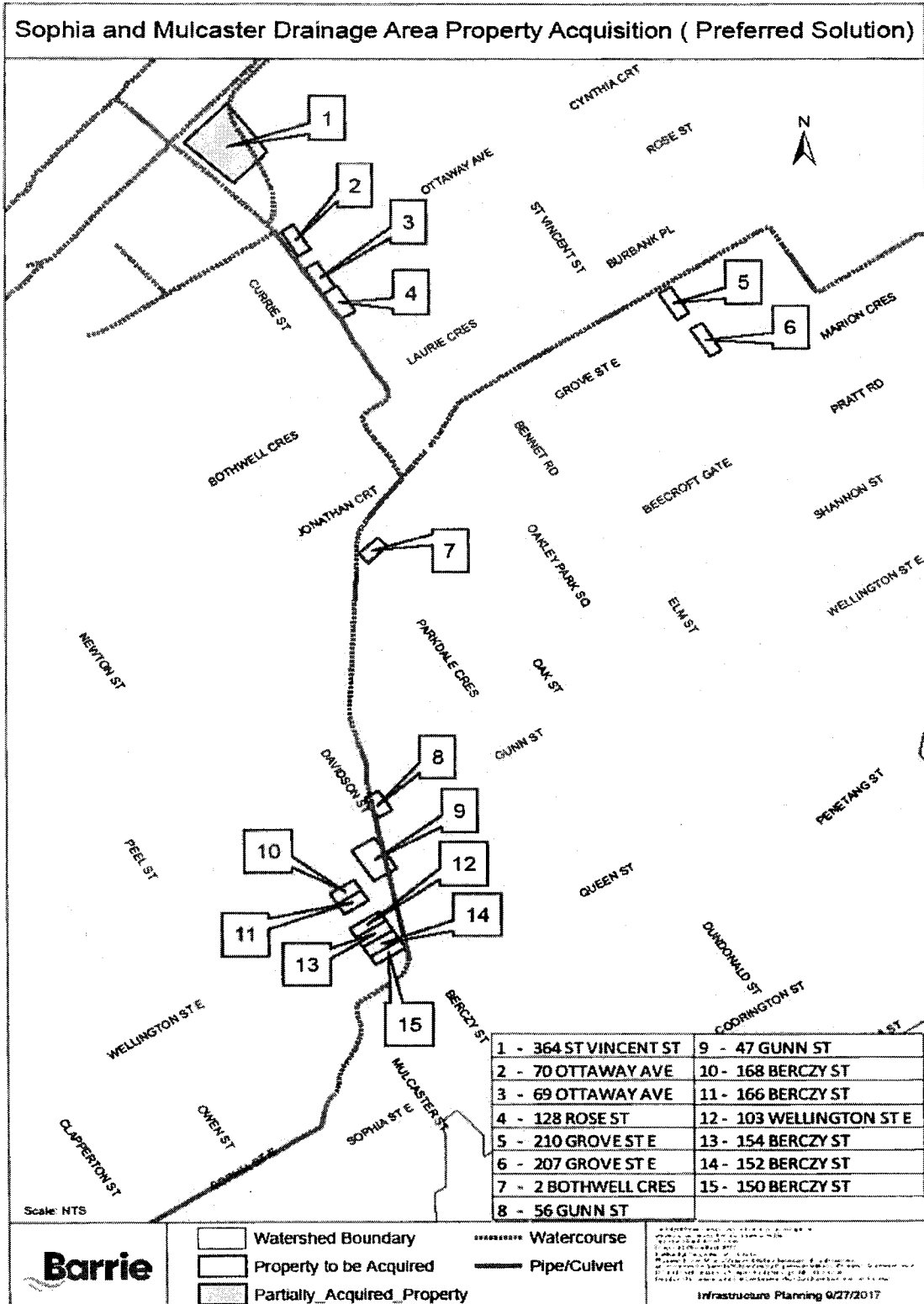


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 207 Grove Street East, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear


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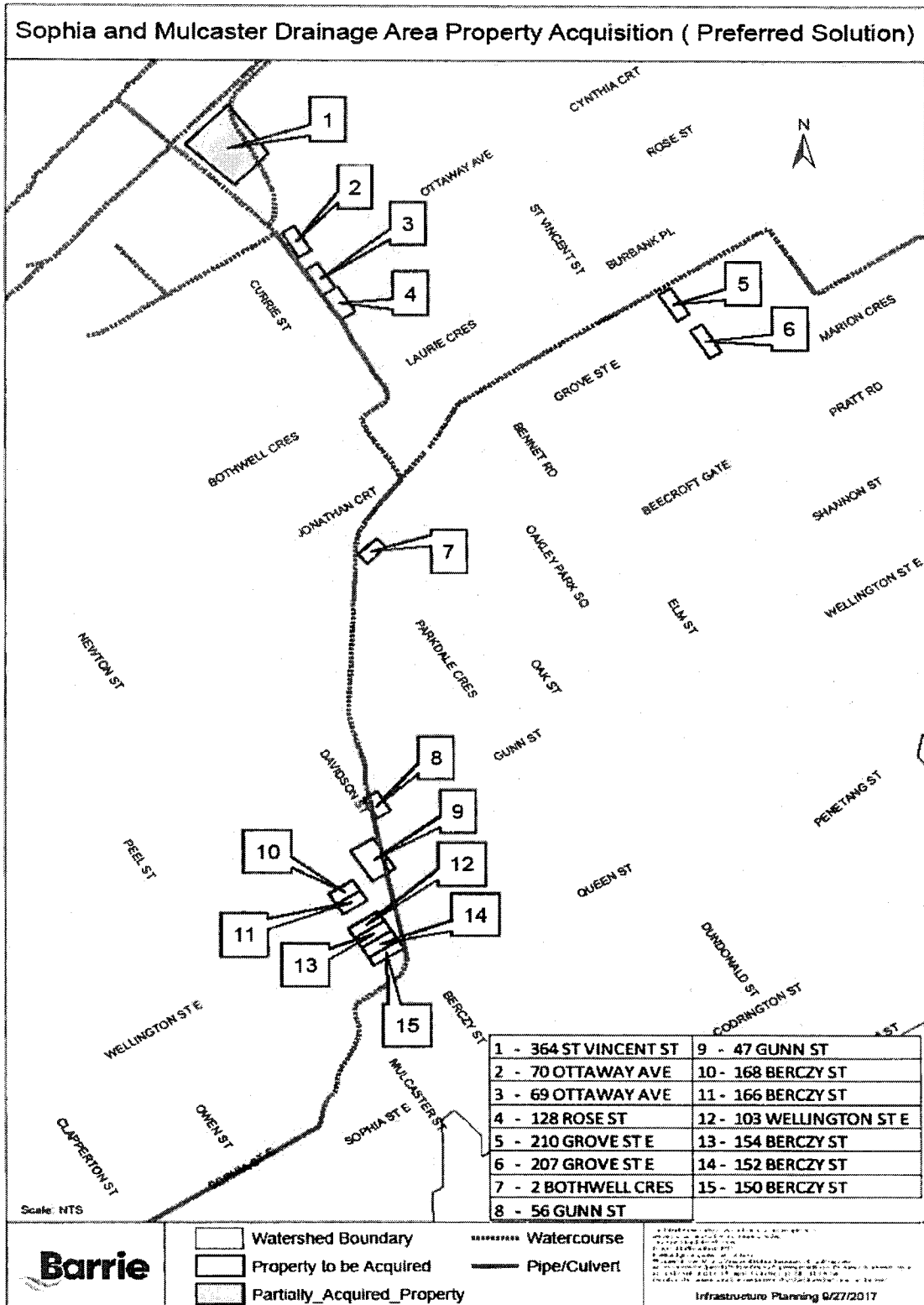


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 166 Berczy Street, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear


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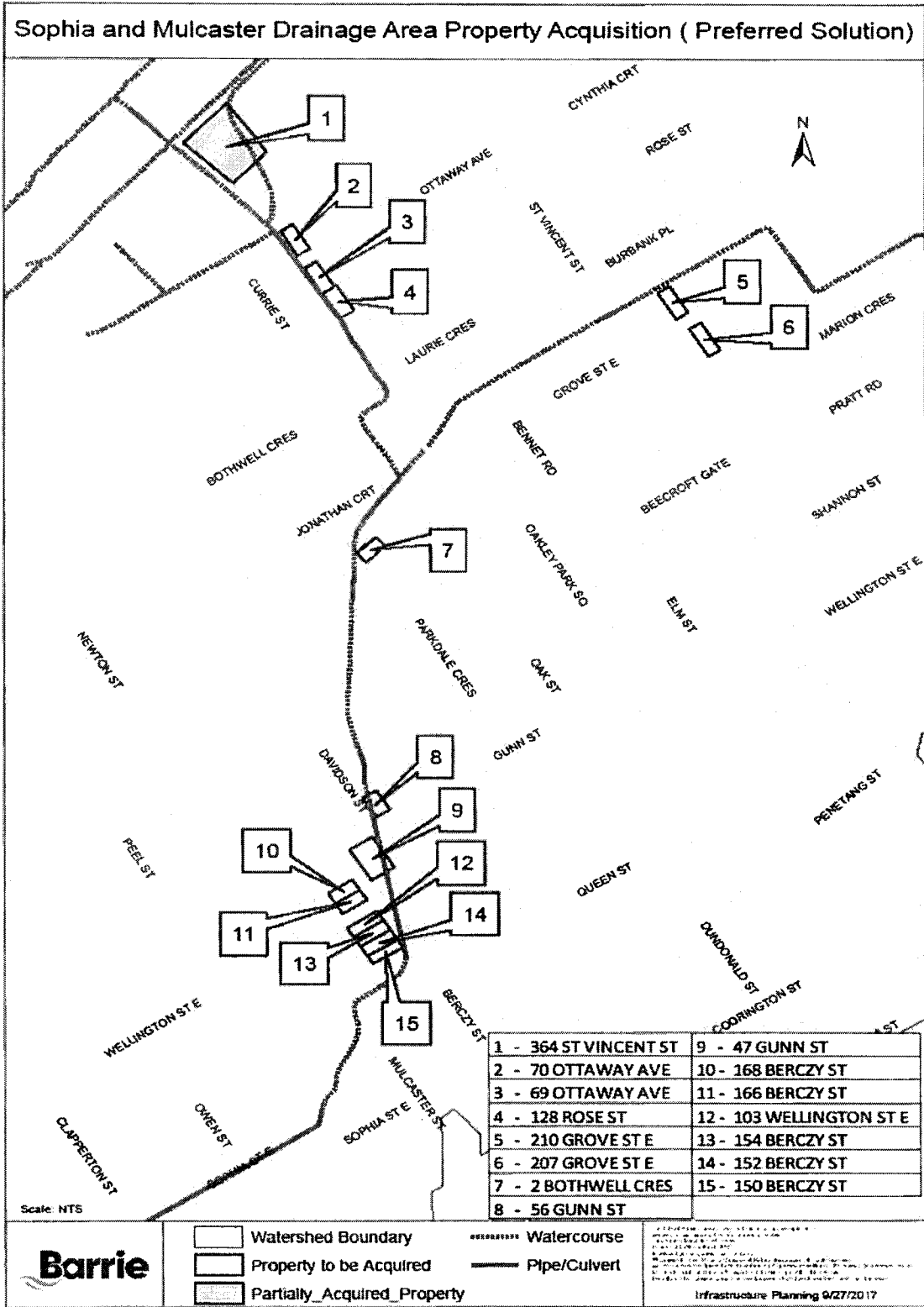
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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 70 Ottawa Avenue, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

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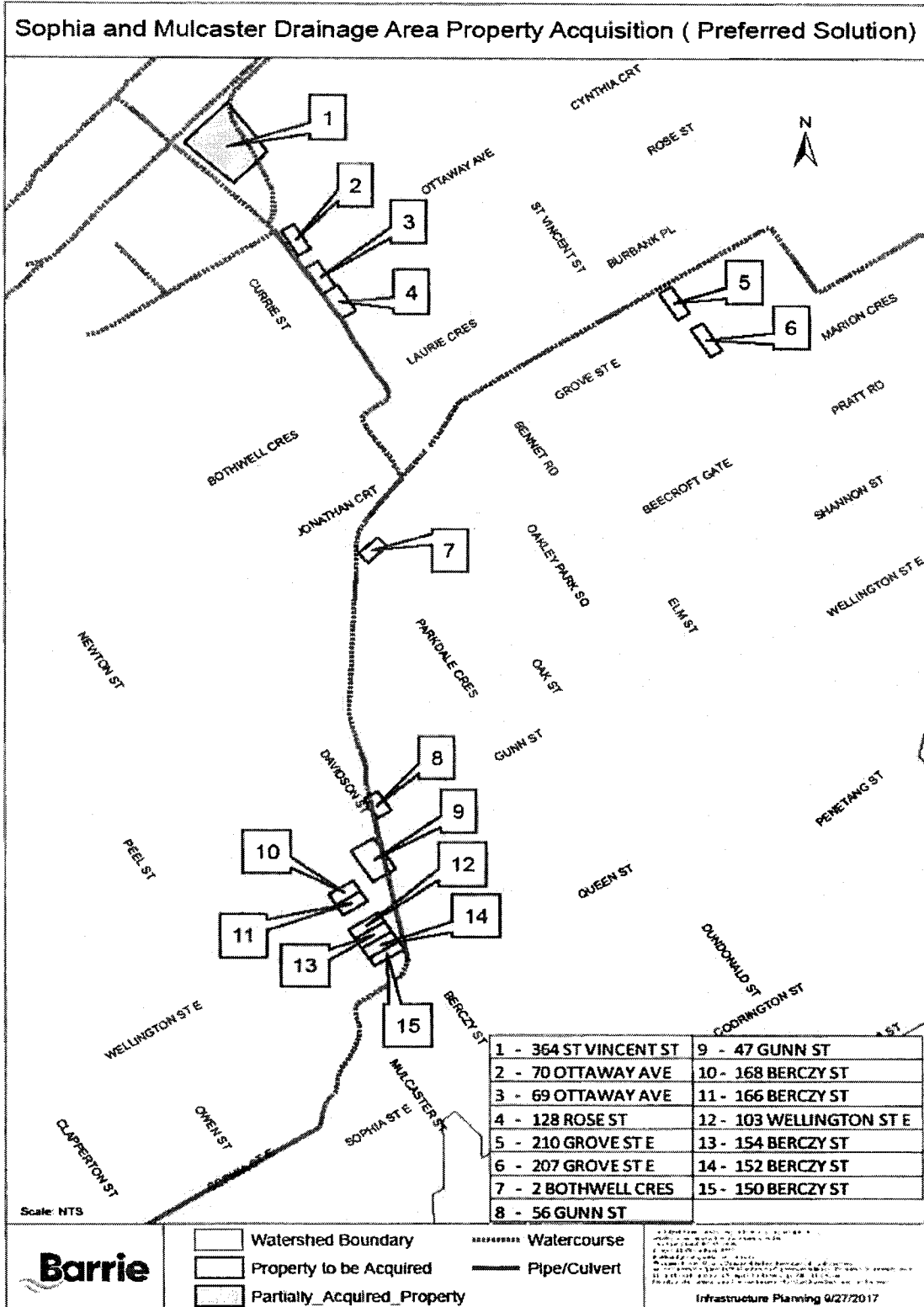


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 47 Gunn Street, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear:


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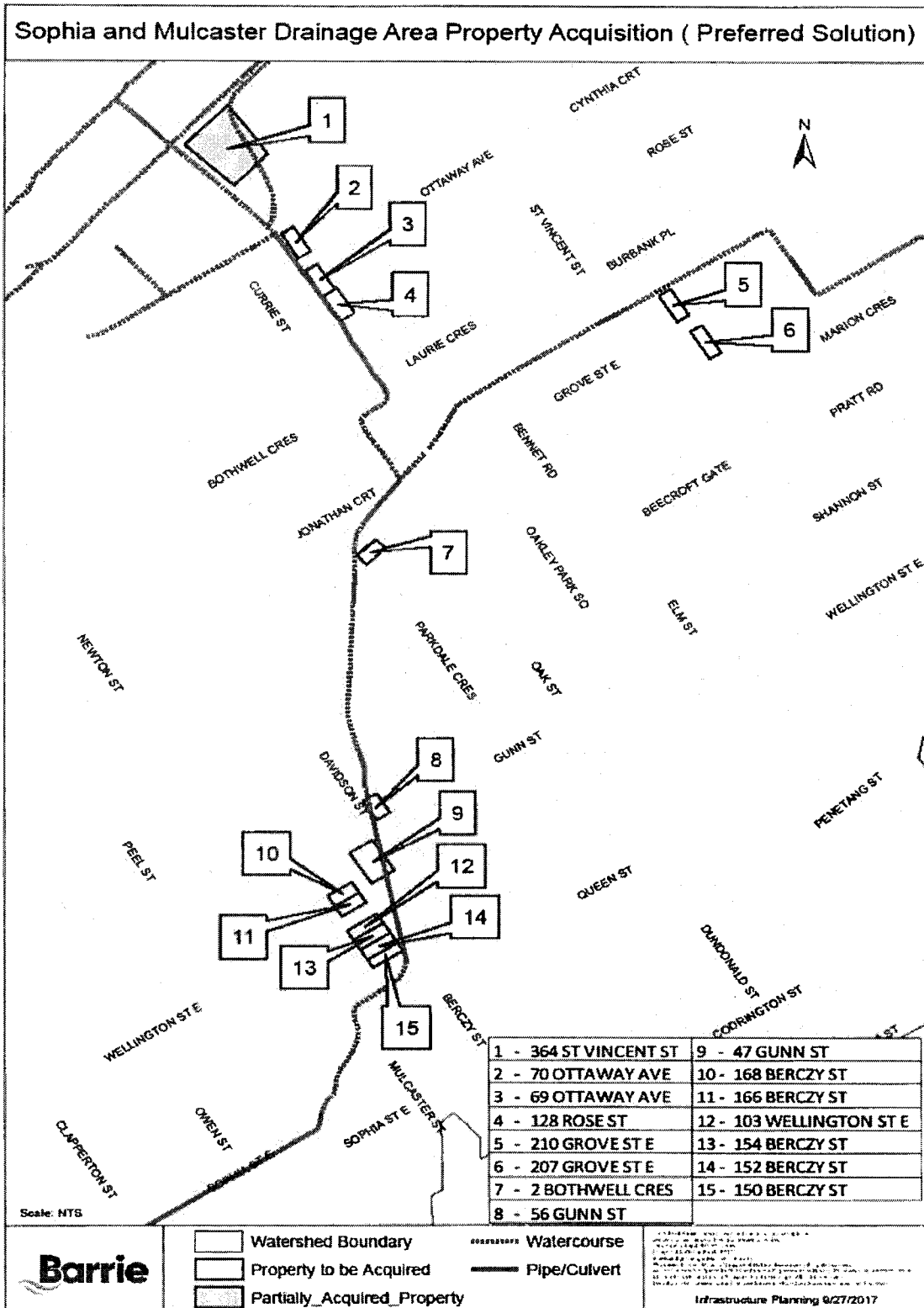


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 168 Berczy Street, Barrie - Property Acquisition
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Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

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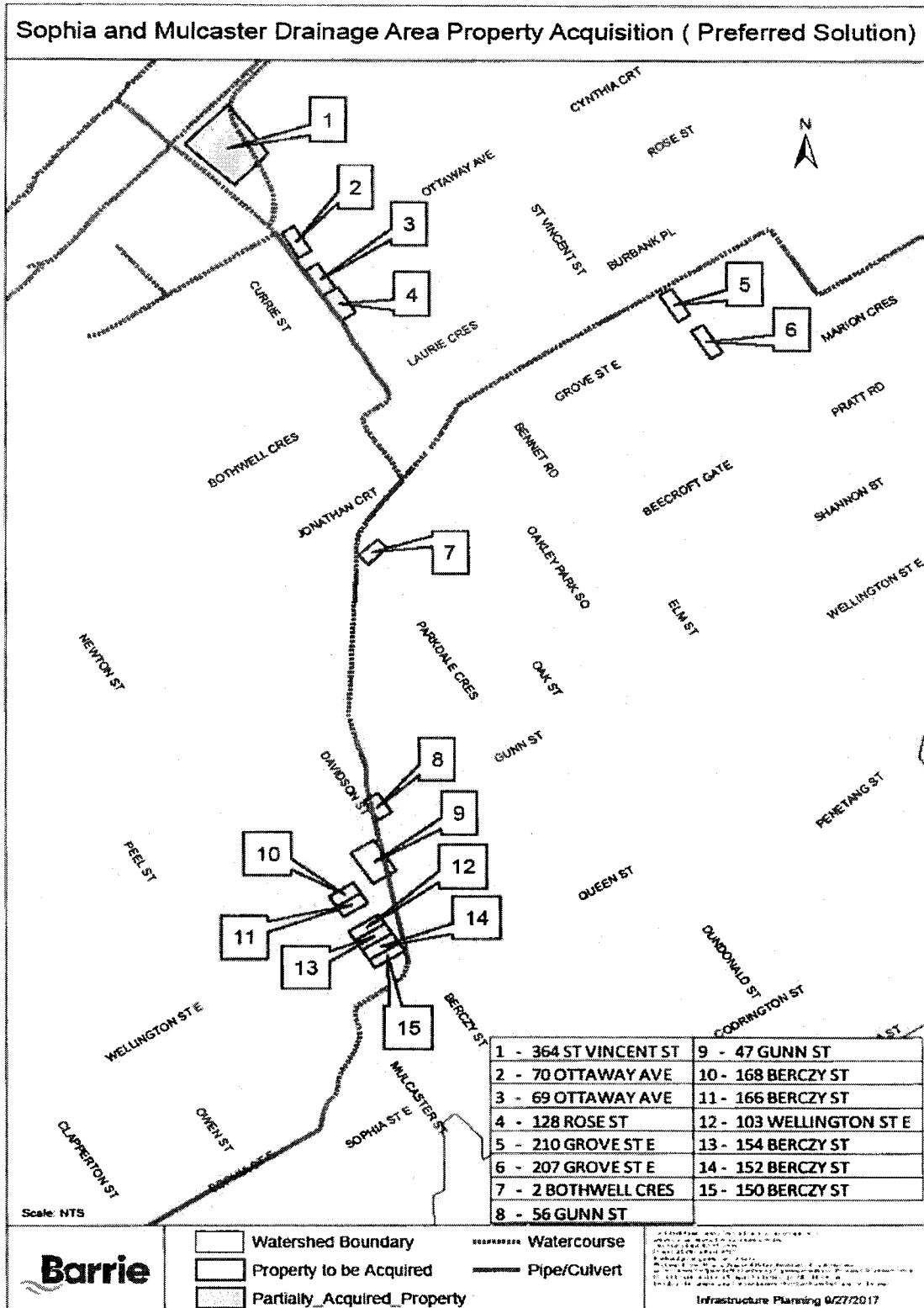


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L4M 4T5

November 10, 2017

File: D03-SO2

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Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

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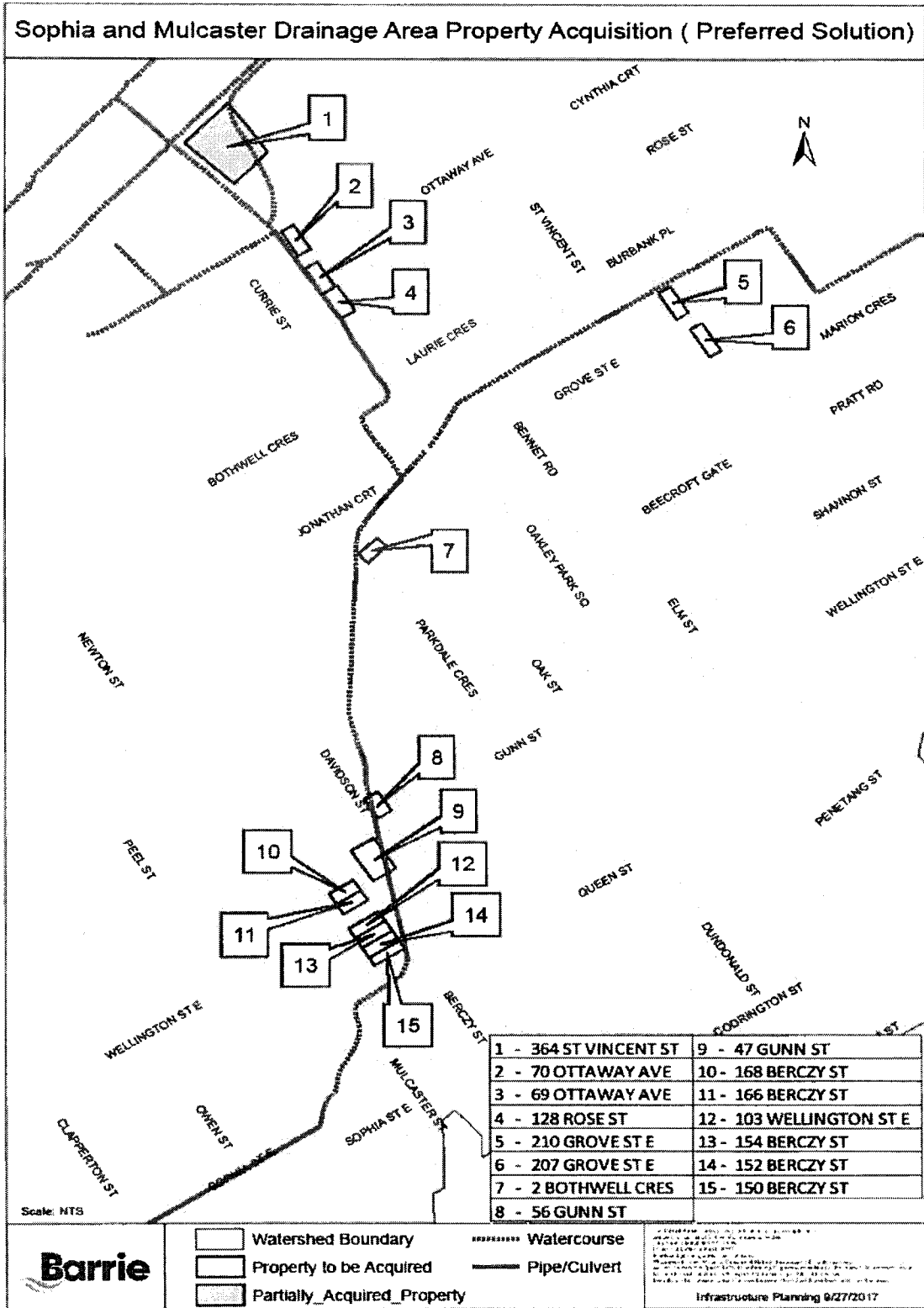


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L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 128 Rose Street, Barrie - Property Acquisition
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Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

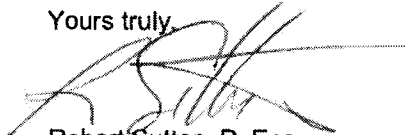
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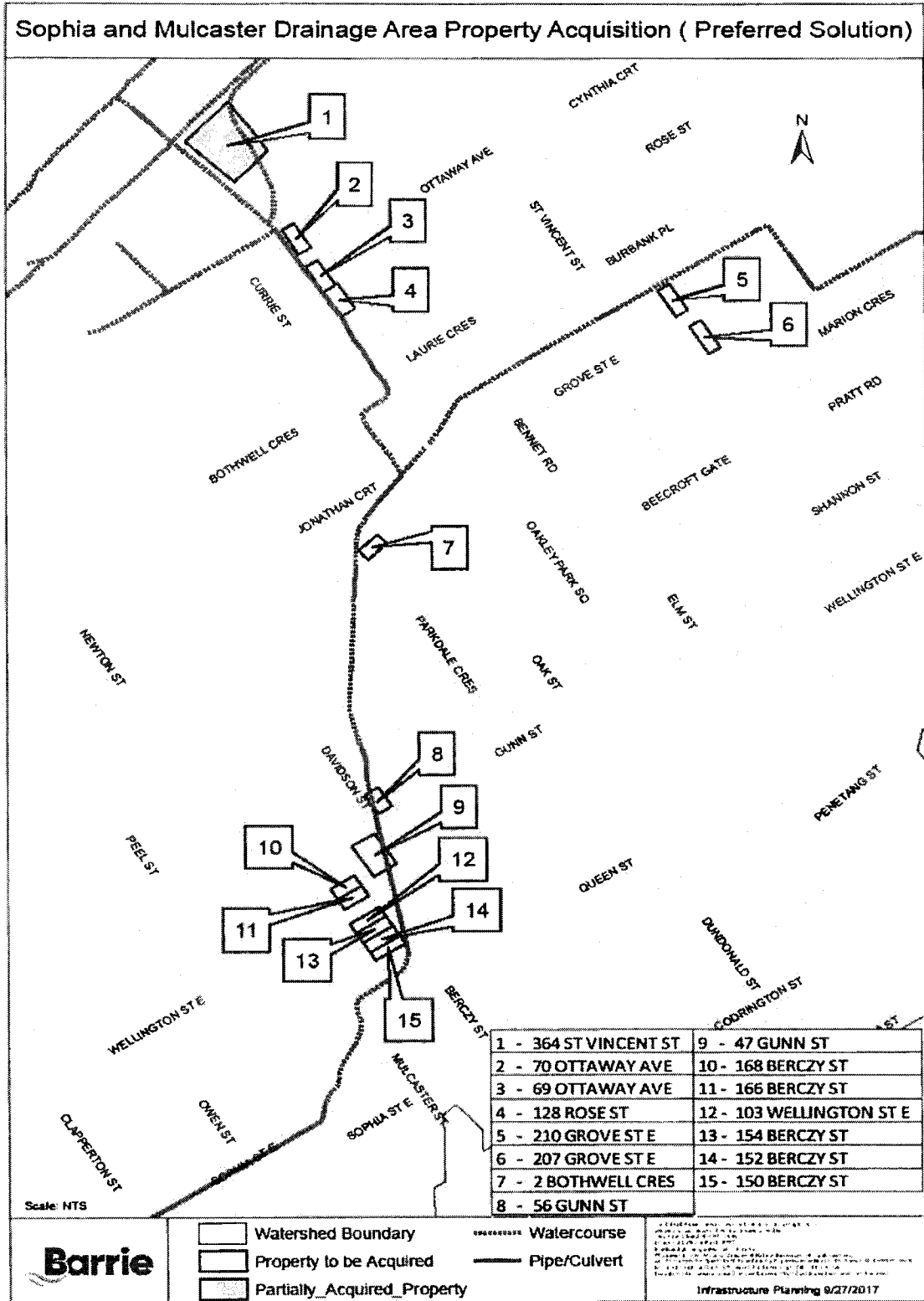


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November 10, 2017

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**RE: 69 Ottaway Avenue, Barrie - Property Acquisition
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Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

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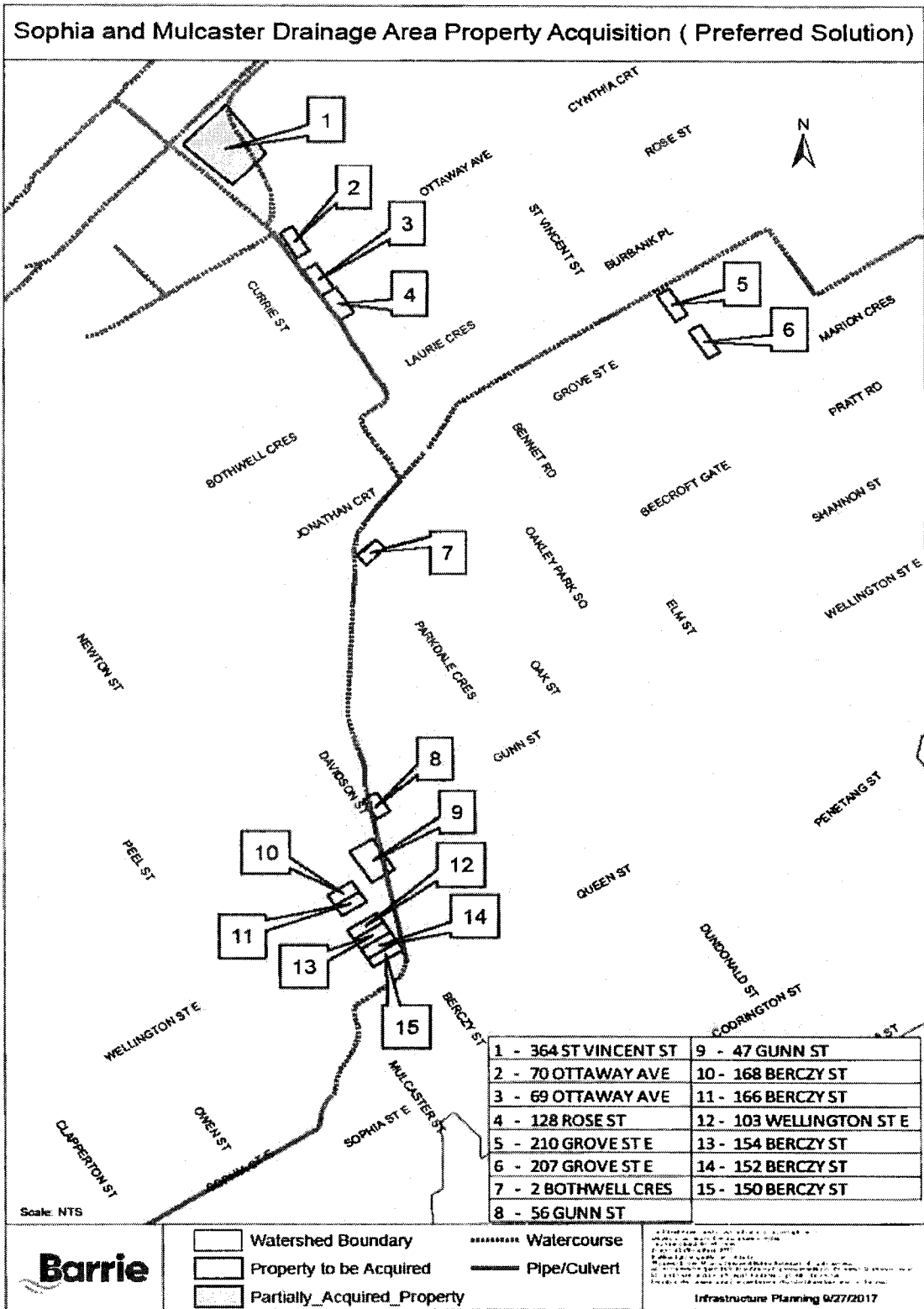


Robert Sutton, P. Eng.
Director of Engineering

RS/ar

Attachment

Attachment



CITY HALL
70 COLLIER STREET
TEL. (705) 726-4242
FAX. (705) 739-4247

The City of
BARRIE
THE CORPORATION OF THE CITY OF BARRIE
Engineering Department
"Committed to Total Service Excellence"

P.O. BOX 400
BARRIE, ONTARIO
L4M 4T5

November 10, 2017

File: D03-SO2

**RE: 152 Berczy Street, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear

The Engineering Department has updated the Schedule 'B' Municipal Class Environmental Assessment (EA) for the Sophia Creek and Mulcaster Drainage Area Master Drainage Plan (MDP) to determine the best solutions to the drainage problems. The MDP is an update to the initial study completed in 2002 which recommended solutions to culvert crossings, channel ways and stormwater facilities, and the acquisition of lands to complete the upgrades.

On November 6th, 2016, City Council approved the recommended preferred alternative for the MDP. The preferred alternative identifies various property acquisitions that are required for implementation. Attached is a drawing which illustrates the properties that are being recommended for acquisition. Since your property has been recommended, we would like to meet and discuss the long term implementation of this project at your earliest convenience. Please contact Mr. Lorrان Cooney at (705) 739-4220, extension 4514, or by email at Lorrان.Cooney@Barrie.ca.

A copy of the Class EA report for the MDP is available on the City of Barrie web page at www.barrie.ca/eastudies, then scrolling down to the Sophia Creek Watershed & Mulcaster Drainage Area MDP EA Update. A paper copy of the Final Draft Class EA is available for review at the City of Barrie Engineering Department on the 6th floor of City Hall during regular business hours (8:30am to 4:30pm).

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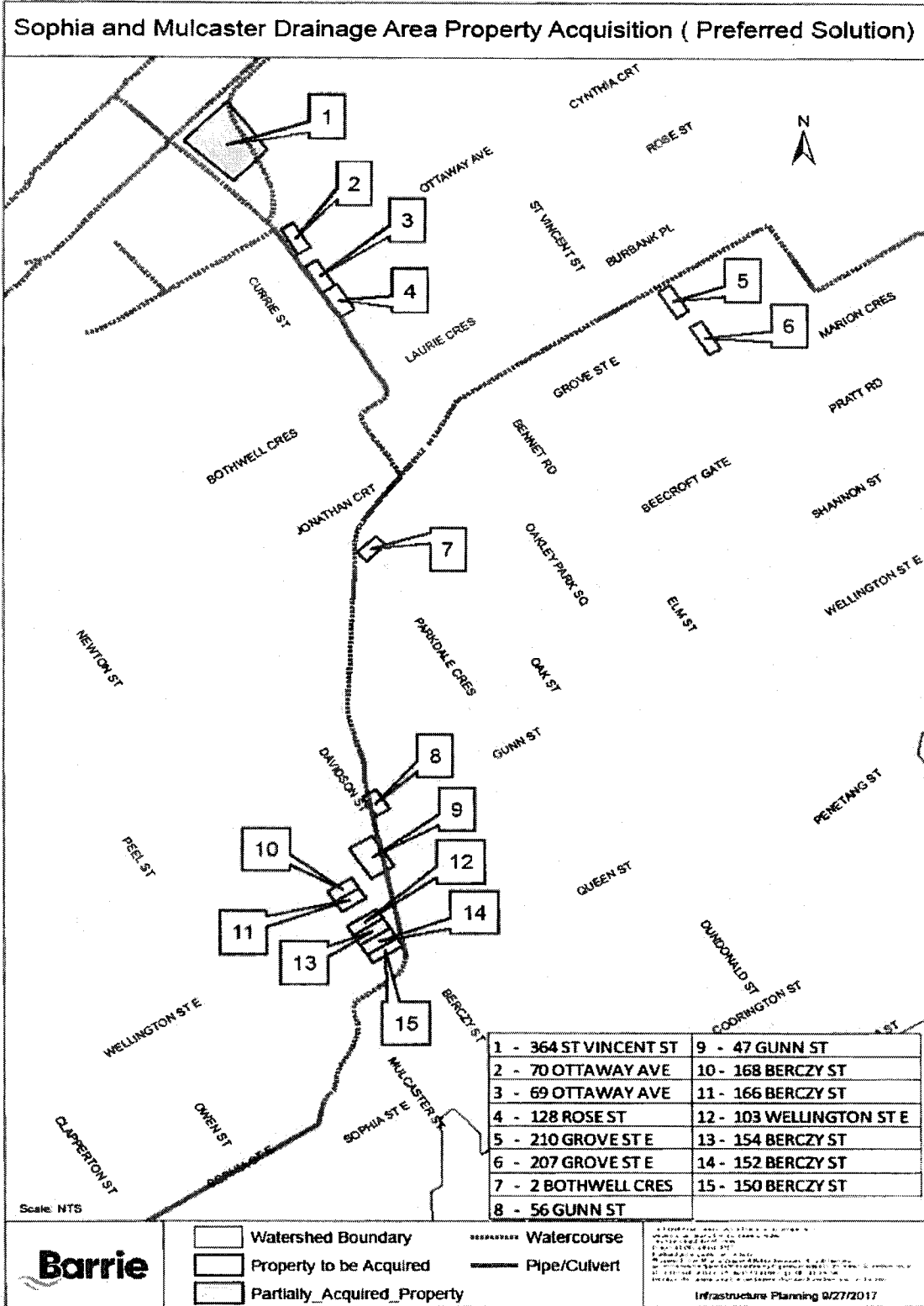


Robert Sutton, P. Eng.
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L4M 4T5

THE CORPORATION OF THE CITY OF BARRIE
Engineering Department
"Committed to Total Service Excellence"

November 10, 2017

File: D03-SO2

**RE: 2 Bothwell Crescent, Barrie - Property Acquisition
Sophia Creek Watershed & Mulcaster Drainage Area
Municipal Class Environmental Assessment Phase 1 & 2 Preferred Alternative**

Dear . . .

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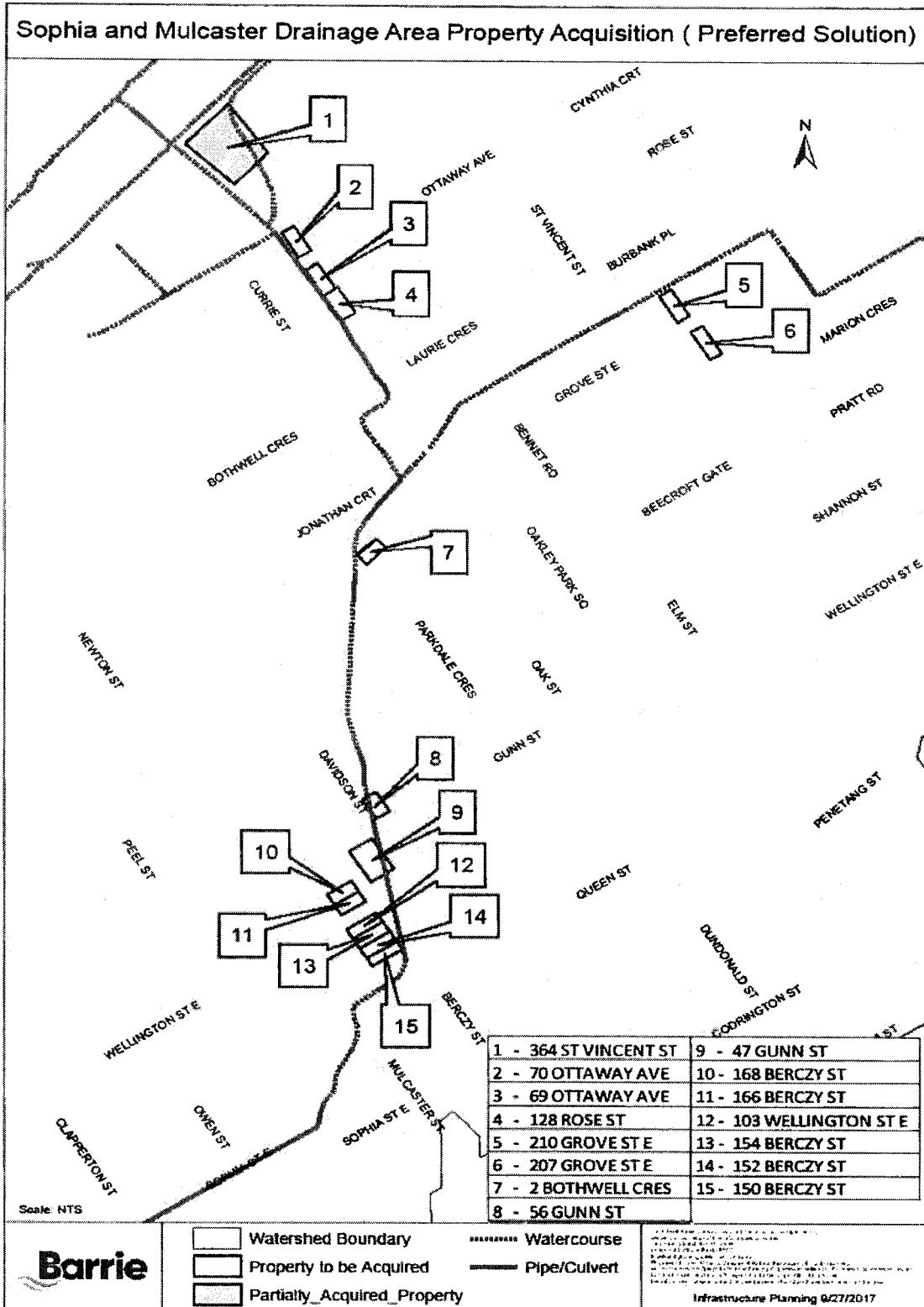


Robert Sutton, P. Eng.
Director of Engineering

RS/ar

Attachment

Attachment





October 12, 2017

THE CITY OF BARRIE

70 Collier Street, P.O. Box 400
Barrie, ON, L4M 4T5

Attn: Mr. Lorrان Cooney
Sr. Infrastructure Planning Technologist

Re: Sophia Creek Watershed & Mulcaster
Drainage Area Environmental Assessment Update
CCTA File 115172

Dear Mr. Cooney,

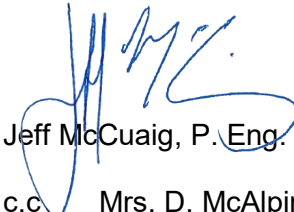
We are writing on behalf of Mr. Peter Moore, owner of the property located at 364 St. Vincent Street, and further to our meetings regarding the Sophia Creek Watershed & Mulcaster Drainage Area Environmental Assessment Update (Sophia Creek EA) and in particular, Stormwater Management Pond SP03 proposed for the St. Vincent Street site. The existing Stormwater Management Pond at this location is approximately 0.40 ha in size. The Sophia Creek EA recommends a doubling of the pond size to about 0.80 ha.

During the Sophia Creek EA process several pond scenarios were evaluated including pond SP01 (MacMorrison) alone, pond SP03 (St. Vincent) alone, and ponds SP01 and SP03 working in conjunction. The EA Summary notes that a combination of the alternatives are required as a single alternative does not address all of the drainage issues. The model results indicate that by using SP01 alone the flow reduction downstream of SP01 is 13-27%, but when combined with SP03 the flow reduction is 16-34%. This additional 3-7% does not appear to be a large reduction.

Has a review been completed that evaluates the costs of the required infrastructure upgrades, such as conveyance upgrades, when only SP01 is online compared against upgrades required when both ponds SP01 and SP03 are online? What are the capital costs of the conveyance upgrades for the additional 3-7% flow reduction downstream of MacMorrison Park and how do they compare to the construction and acquisition cost of SP03, which is listed as about \$1.1M in the EA document. In other words, has a full cost accounting been undertaken and if so please provide for our review.

If we assume that SP03 is functionally required and is also part of the cost effective solution, we would like to affirm our position that the pond be more rectangular shaped running the length of the western property line, extending east as required for the volume. This will provide for a more effective and efficient pond design, as well as allow the landowner more space for on-site uses.

Sincerely,
GERRITS ENGINEERING LIMITED



Jeff McCuaig, P. Eng.

c.c. Mrs. D. McAlpine, City Clerk, City of Barrie
Mr. P. Moore
Mrs. N. Mitchinson

Daniel Twigger - Re: FW: St. Vincent Property - Sophia Creek Watershed EA

From: Daniel Twigger
To: Cooney, Lorrان; Scheunemann, Ralph
Date: 10/26/2017 5:53 PM
Subject: Re: FW: St. Vincent Property - Sophia Creek Watershed EA

Hi Lorrان,

Our hydrologic analysis included a scenario with the SWMF SP03 retrofit only. The results indicated that the proposed expansion decreases peak flows by 2.5 cms immediately downstream of the pond and 5.6 cms at Peel Street. The SWMF expansion delays the time to peak further offsetting the peaks from the two branches of Sophia Creek upstream of Bothwell Crescent. In combination with SWMF SP01, the flows at Peel Street are reduced by approximately 15.7 cms.

The preferred alternative solution upstream of Peel street has been designed considering the SWMF SP03 expansion in place. Eliminating the SWMF SP03 expansion means increasing the size of the culvert crossings downstream of SWMF SP03.

The preferred alternative solution downstream of Peel Street has been designed considering the SWMF SP03 expansion in place. Eliminating the SWMF SP03 expansion would mean increasing the trunk storm sewer sizes downstream of Peel Street. The trunk storm sewer proposed on Owen Street cannot be increased. As such, the Clapperton Street trunk storm sewer would have to be increased to accommodate the additional flow. In addition, the trunk storm sewer on Bayfield Street downstream of Dunlop Street would have to be replaced.

Sizing of the downstream infrastructure was not completed for the Scenario of constructing a new pond in MacMorrison Park only. Construction cost estimates were not prepared for this scenario either. However, I estimate that the trunk storm sewer upgrades would be approximately \$2.5M and the culvert upgrades would be approximately \$0.2M. The upgrades are approximately \$1.5M more than the estimate construction cost of the proposed SWMF expansion.

Please let me know if you have any questions or require further information.

Thanks Lorrان,