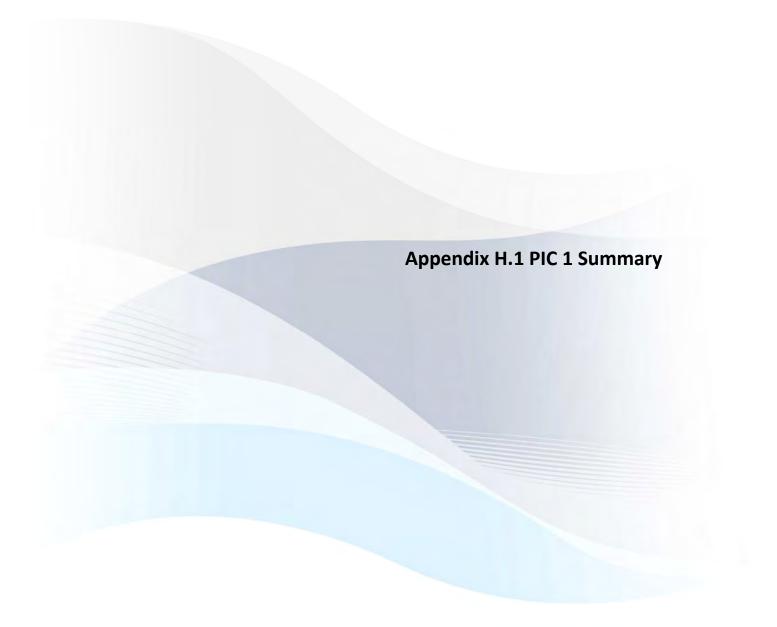
APPENDIX H Appendix H.1 PIC 1 Summary and Appendix H.2 PIC 2 Summary



Memorandum



DATE:	March 29, 2018
TO:	Winston Wang, M.A.Sc., P.Eng Project Manager, City of Hamilton
FROM:	Jennifer Whittard/Jessica Mollo
CC:	Shelley Kuan
OUR REF.#:	WM16-0435
SUBJECT:	Elevated Water Storage Facility and Pumping Station Municipal Class EA for Pressure District 7: PIC # 1 Summary

The first Public Information Centre (PIC) was held on December 6, 2017 in conjunction with the Elfrida Growth Area Study. The PIC was held from 6:00 to 8:30 pm at the Valley Park Recreation Centre and Arena located at 970 Paramount Drive, Stoney Creek. The PIC followed an informal open house format with large display boards set up around the gymnasium (see **Attachment A**). The display boards presented the study background, an overview of the Class EA process, study area and alternative sites, proposed evaluation criteria, and next steps. The Elfrida PIC included a formal presentation at 6:30 pm, for which COLE presented a few slides relating to the Class EA (see **Attachment B**).

Attendees were invited to sign-in, review the display boards, ask questions and provide comments. Comment sheets were available for those who wished to provide comments. A copy of the display boards and comment sheet were provided to the City on December 7, 2017 for posting on the City's website (<u>https://www.hamilton.ca/city-planning/master-plans-class-eas/elevated-water-storage-facility-and-pumping-station-pressure</u>).

Comments Received

A total of 19 people signed through the duration of the PIC (see **Attachment C**). The majority of attendees were members of the general public, but others included consultants and representatives from the City. Two (2) comment sheets were received including the following comments:

- Request for a copy of the display boards; and
- More development. More traffic. Roads and RHV need to be expanded at the same time (no blaming other governments).

General discussions were also had with the public and included extending the watermain further east along Rymal Road East and potential impacts to agricultural lands and loss of crops. There were no opposing comments regarding the future elevated water storage facility and pumping station within the area.



COLE ENGINEERING GROUP LTD.

HEAD OFFICE 70 Valleywood Drive, Markham, ON Canada L3R 4T5 T. 905 940 6161 | 416 987 6161 F. 905 940 2064 www.coleengineering.ca



Attachment A PIC Displays



Public Information Centre #1

December 6, 2017, 6:00 - 8:30 pm Valley Park Recreation Centre and Arena (Gymnasium) 970 Paramount Drive Stoney Creek, Hamilton

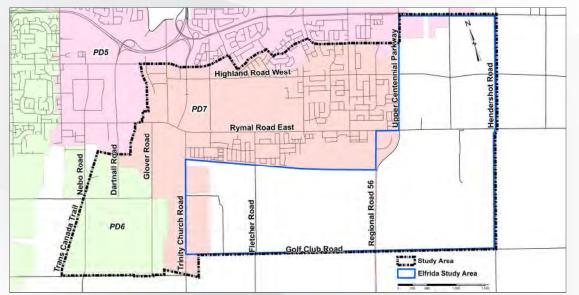
We value your input in the decision-making process. Please fill out a comment sheet or discuss your concerns with one of our study representatives.



Study Background



- The purpose of the Municipal Class Environmental Assessment (EA) is to select the preferred sites for a new elevated water storage facility and pumping station.
- This new infrastructure is required to provide water supply for future growth within Pressure District 7 (PD7), and to address security of supply and water system balancing.
- To meet projected population growth, the elevated water storage facility is required by approximately 2021 and the pumping station by 2027.

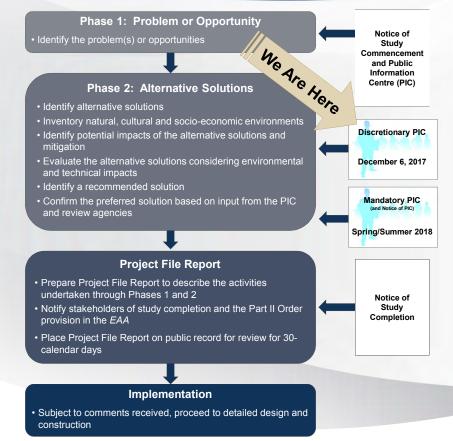






Overview of the Municipal Class EA Process

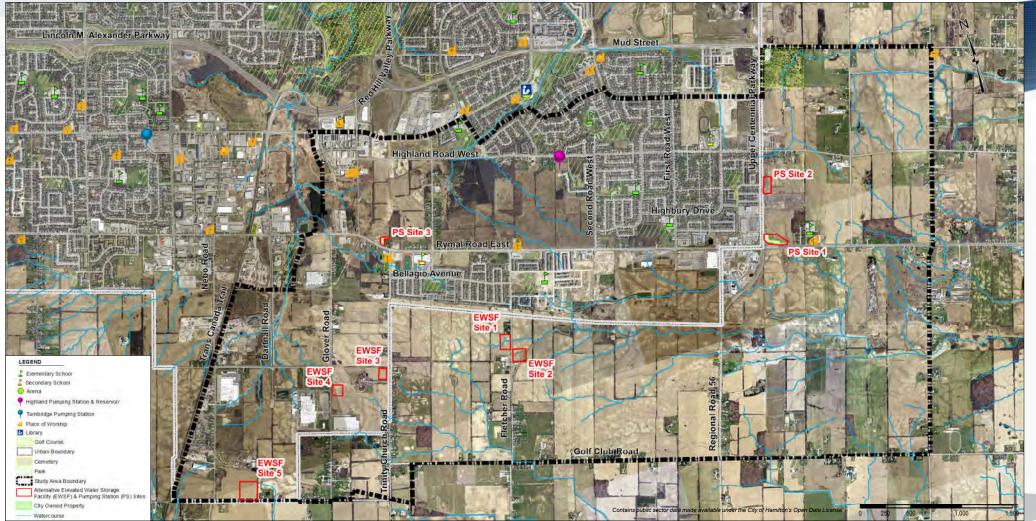
- The Ontario Environmental Assessment Act (EAA) requires that most municipal infrastructure projects follow an approved Class EA process.
- This study is being conducted in accordance with the approved requirements for a Schedule "B" project as described in the Municipal Engineers Association's Municipal Class EA document.
- The study is currently in Phase 2: Alternative Solutions. The results of the evaluation – the preferred sites for the elevated water storage facility and pumping station – will be presented at a second Public Information Centre (PIC).
- Review agencies and the public will be notified of both the PIC and Project File Report completion, including the mandatory 30-day public review period.





Study Area and Alternative Sites







Proposed Evaluation Criteria



Component	Evaluation Criteria	Indicator(s)
latural Environment		
 Natural Heritage Features 	 Potential effects on natural heritage features, including Environmentally Significant Areas (ESAs), Areas of Natural and Scientific Interest (ANSIs), wetlands and/or woodlands 	Number and relative size/area of natural heritage features disrupted
Water Resources	Potential impacts to ground and surface water featuresGroundwater management complexity during construction	 Number and type of watercourse crossings, if applicable Proximity to floodplains and/or regulated areas Potential for short-term water taking during construction
• Fauna	 Potential for displacement of fauna and impacts to Significant Wildlife Habitat (SWH) or Species at Risk (SAR) 	Loss or disruption to SWH or SAR
Social/Cultural Enviro	nment	
Land Use	Compatibility with current and future land uses in the area	 Current and planned future land use Compliance with Official Plans and policies
Community	 Short-term construction related impacts to residents, businesses and the community, such as the potential for noise, dust, vibration and traffic impacts 	Type and proximity of residential, business and/or community features
 Archaeology and Cultural Heritage 	 Potential for loss and/or disruption to archaeological and/or cultural heritage resources 	 Archaeological potential Type and proximity of known archaeological and/or cultural heritage resources
Property Requirements	Requirement for temporary/permanent easements or property acquisition	Ownership
Fechnical Considerati	ons	
Constructability	 Soil/ground conditions and potential for encountering problems during construction Sufficiency of space/area to allow for construction access and staging/maintenance operations 	 Constructability given predicted soil/ground conditions Ease of access for construction and staging/maintenance operations
 Operability 	Ability to provide optimal system reliability and hydraulic performance	Location and hydraulics
Conflicts	 Ability to make use of existing infrastructure or coordinate with planned infrastructure improvements 	Existing infrastructure and utilitiesCoordination opportunities with planned infrastructure improvements
conomic/Financial C	onsiderations	
• Cost	Construction, operation and maintenance	Estimated construction, operation and maintenance



Next Steps

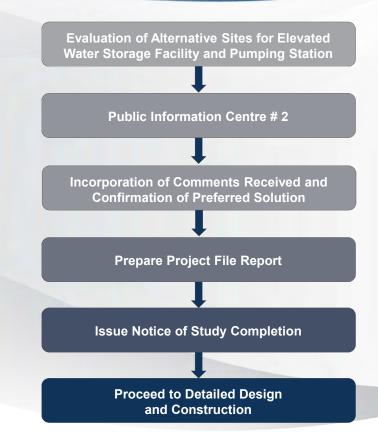


• Comment sheets are provided – please place completed sheets in the Comment Box or contact:

Elizabeth Panicker, Project Manager City of Hamilton 905-546-2424 Ext. 6393 Elizabeth.Panicker@hamilton.ca

- All comments collected throughout this process will be considered in the evaluation of alternative sites.
- Review agencies and the public will be notified of the second Public Information Centre, tentatively scheduled for Spring/Summer 2018.

If you wish to receive direct notification of Public Information Centre #2 and Notice of Study Completion, please provide your contact information to one of our study representatives.





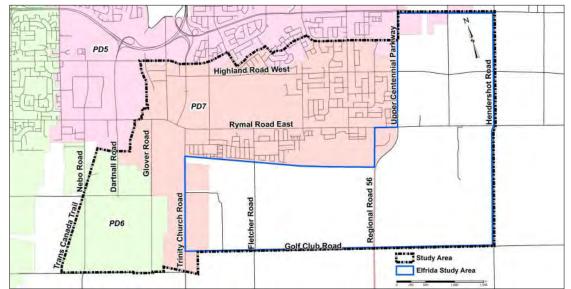


Attachment B Presentation Slides

Elevated Water Storage Facility and Pumping Station Study for Pressure District 7

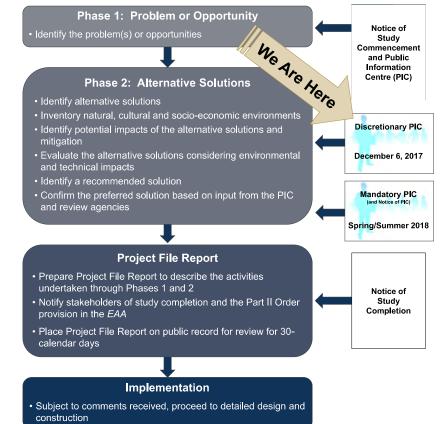
Study Background

- The purpose of this Municipal Class Environmental Assessment (EA) study is to select the preferred sites for a new elevated water storage facility and pumping station.
- This new infrastructure is required to provide water supply for future growth within Pressure District 7 (PD7), and to address security of supply and water system balancing.
- To meet projected population growth, the elevated water storage facility is required by approximately 2021 and the pumping station by 2027.

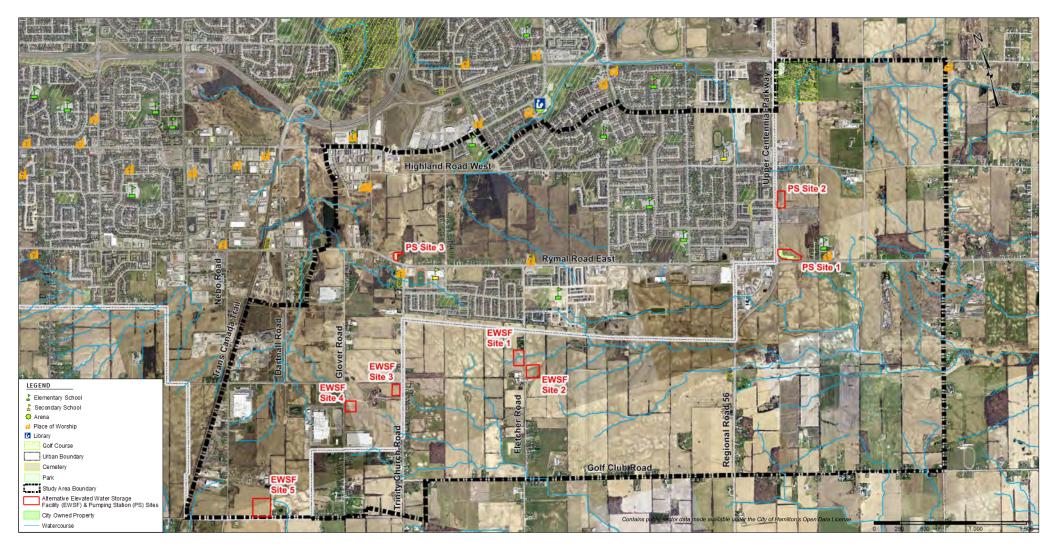


Overview of the Municipal Class EA Process

- The Ontario Environmental Assessment Act (EAA) requires that most municipal infrastructure projects follow an approved Class EA process.
- This study is being conducted in accordance with the approved requirements for a Schedule "B" project as described in the Municipal Engineers Association's Municipal Class EA document.
- The study is currently in Phase 2: Alternative Solutions. The results of the evaluation – the preferred sites for the elevated water storage facility and pumping station – will be presented at a second Public Information Centre (PIC) in Spring/Summer 2018.



Study Area and Alternative Sites





Attachment C Sign-In and Comment Sheets





SIGN-IN SHEET

Public Information Centre #1 – December 6, 2017

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

Name (Please Print)	Address	E-mail	Phone Number	Would you like to b added to the proje mailing list? Y/N
				¥
				Y
				\checkmark
				1
				Y
				Υ.
				Y





SIGN-IN SHEET

Public Information Centre #1 – December 6, 2017

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

Name (Please Print)	Address	E-mail	Phone Number	Would you like to b added to the projec mailing list? Y/N
				Yes
				Y
				No
				7





SIGN-IN SHEET

Public Information Centre #1 – December 6, 2017

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

Name (Please Print)	Address	E-mail	Phone Number	Would you like to be added to the project mailing list? Y/N
				1100
				yes.





SIGN-IN SHEET

Public Information Centre #1 – December 6, 2017

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

Name (Please Print)	Address	E-mail	Phone Number	Would you like to added to the proje mailing list? Y/N
				~
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			54	

Page ____ of ___





Comment Sheet Public Information Centre – December 6, 2017

The City of Hamilton is conducting a Municipal Class Environmental Assessment (EA) study to identify the preferred site for a new elevated water storage facility and pumping station. As identified in previous studies completed by the City, this new infrastructure is required for security of supply, water system balancing, and to provide water supply for future growth within the southeast mountain area (Pressure District 7).

We are interested in your comments and suggestions regarding this project. Please take a few minutes to complete this comment sheet.

1. Why are you interested in this project?

LESIDENT

2. The alternative sites will be compared based on the evaluation criteria listed on the displays. Are there any other criteria that should be considered?
Yes Yes

3. What impacts might this project have on you?

MONE DEVELOPMENT. MORE TRAFFIC. ROADS & RHV NEED TO BE EXPANDED MICE TIME (NO BLADING OTHER GOVERNMENT.



Pressure District 7 Elevated Water Reservoir and Pumping Station Schedule B Municipal Class Environmental Assessment



4. Do you have any additional comments or require further information about the project?

a subscription of the second se	
12	
5. Would you like to be added to the project	ct mailing list? 🗆 Yes 🛛 No
	ct mailing list? Yes No before leaving the Public Information Centre.
Please submit your written comments	before leaving the Public Information Centre.
Please submit your written comments f you require more time to comment, please so Team Members	before leaving the Public Information Centre. end your comments to either of the following Project by December 20, 2017:
Please submit your written comments	before leaving the Public Information Centre. end your comments to either of the following Project

Cole Engineering Group Ltd. 195 King Street, Suite 205 St. Catharines, Ontario L2R 3J6 P: 905-940-6161 E: jwhittard@coleengineering.ca Project Manager, Public Works Departmen City of Hamilton 77 James Street North, Suite 400 Hamilton, Ontario L8R 3M8 P: 905-546-2424 Ext. 6393 E: <u>Elizabeth.Panicker@hamilton.ca</u>

PLEASE CLEARLY PRIM	IT YOUR NAME AND CONTACT INFOR	MATION BELOW:
First Name:	Street:	
Last Name:	City:	- Anterior
Telephone:	Postal Code:	
E-Mail:	Fax:	

Comments and information regarding this project are being collected to assist the City of Hamilton in completing the Municipal Class EA. This material will be maintained on file for use during the project and may be included in the project documentation. Information collected will be used in accordance with the *Freedom of Information and Privacy Act*. With the exception of personal information, all comments will become part of the public record.





Comment Sheet Public Information Centre – December 6, 2017

The City of Hamilton is conducting a Municipal Class Environmental Assessment (EA) study to identify the preferred site for a new elevated water storage facility and pumping station. As identified in previous studies completed by the City, this new infrastructure is required for security of supply, water system balancing, and to provide water supply for future growth within the southeast mountain area (Pressure District 7).

We are interested in your comments and suggestions regarding this project. Please take a few minutes to complete this comment sheet.

1. Why are you interested in this project?

2. The alternative sites will be compared based on the evaluation criteria listed on the

displays. Are there any other crit	iteria that should be considered?	🗌 Yes	🗆 No
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3. What impacts might this project have on you?

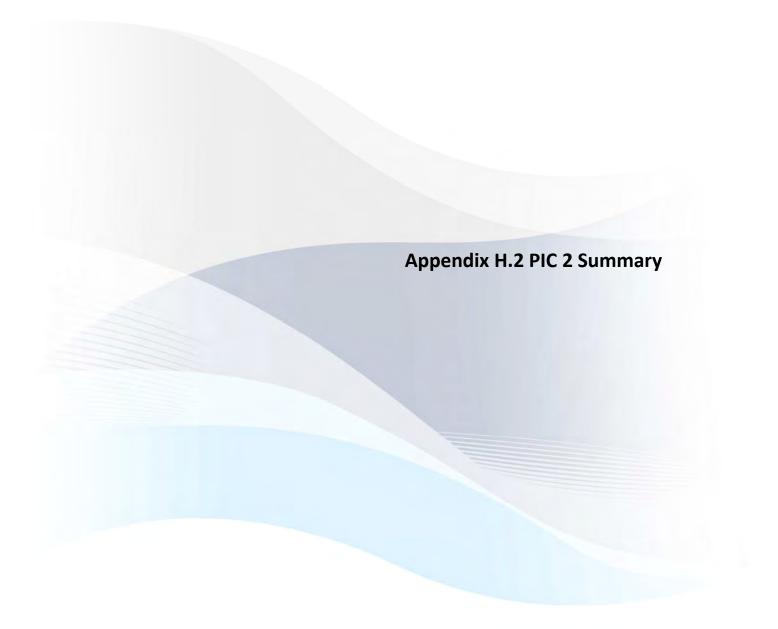




4. Do you have any additional comments or require further information about the project?

please emil,	ne a copy of the stude
+	
<u>ka n</u>	
Would you like to be added to the pro	ject mailing list? 🗌 Yes 🛛 No
Please submit your written commen	ts before leaving the Public Information Centre.
	e send your comments to either of the following Project ers by December 20, 2017:
Jennifer Whittard Senior Environmental Planner Cole Engineering Group Ltd.	Elizabeth Panicker Project Manager, Public Works Department City of Hamilton
195 King Street, Suite 205 St. Catharines, Ontario L2R 3J6	77 James Street North, Suite 400 Hamilton, Ontario L8R 3M8
P: 905-940-6161	P: 905-546-2424 Ext. 6393
E: <u>iwhittard@coleengineering.ca</u>	E: <u>Elizabeth.Panicker@hamilton.ca</u>
PLEASE CLEARLY PRINT YOUR NA	AME AND CONTACT INFORMATION BELOW:
irst Name:	Street:
ast Name	City:
elephone:	Postal Code:
-Mail:	Fax:

Comments and incommation regarding this project are being collected to assist the City of Hamilton in completing the Municipal Class EA. This material will be maintained on file for use during the project and may be included in the project documentation. Information collected will be used in accordance with the *Freedom of Information and Privacy Act*. With the exception of personal information, all comments will become part of the public record.



Memorandum



DATE:	June 25, 2018 (Revised August 24, 2018)
TO:	Winston Wang, M.A.Sc., P.Eng. Project Manager, City of Hamilton
FROM:	Shelley Kuan
CC:	Philip Gray; Rhona Scott
OUR REF.#:	WM16-0435
SUBJECT:	Elevated Water Storage Facility and Pumping Station Municipal Class EA for Pressure District 7: PIC # 2 Summary

The second Public Information Centre (PIC) was held on June 12, 2018 in conjunction with the Elfrida Growth Area Study. The PIC was held from 6:00 pm to 8:30 pm at the Valley Park Recreation Centre and Arena; located at 970 Paramount Drive, Stoney Creek. The Notice of PIC was published in the local Glanbrook Gazette and Stoney Creek News on May 31, 2018 and June 7, 2018; as well as the Hamilton Spectator on June 1, 2018.

The PIC followed an informal open house format with large display boards set up around the gymnasium (see **Attachment A**). The display boards presented the study background, an overview of the Class EA process, evaluation criteria, archaeological assessment findings, and the proposed site location alternatives. The design matrices were presented to the public to provide transparent communication on the selection process of the preferred site locations, and finally, the preferred site locations were identified. The Elfrida PIC included a formal presentation at 6:30 pm, for which COLE presented the slides (see **Attachment A**) relating to the Elevated Water Storage Facility and Pumping Station Class EA.

Attendees were invited to sign-in, review the display boards, ask questions, and provide comments. Comment sheets were available for those who wished to provide comments. A copy of the display boards were provided to the City on June 13, 2018 for posting on the City's website: (https://www.hamilton.ca/city-planning/master-plans-class-eas/elevated-water-storage-facility-and-pumping-station-pressure).



COLE ENGINEERING GROUP LTD.

HEAD OFFICE 70 Valleywood Drive, Markham, ON Canada L3R 4T5. T. 905 940 6161 | 416 987 6161 F. 905 940 2064 www.coleengineering.ca Mr. Winston Wang August 24, 2018



Comments Received

There were two (2) sign-in sheets available for the public to sign; a project specific sheet and another that included the Elfrida Growth Area Study and Subwatershed Study.

A total of 89 contacts were collected through the duration of the PIC (see **Attachment B**), of which several individuals (14 total) signed their names more than once, resulting in only 67 distinct and separate contacts collected. Of these, 15 people signed the Elevated Water Storage Facility and Pumping Station Municipal Class EA for Pressure District 7 specific sign-in sheet through the duration of the PIC.

The majority of attendees were members of the general public, others included consultants and representatives from the City. One (1) comment sheet was received and included the following comments:

• An inquiry on the long term solution for the private wells that were previously affected by construction on another project. Given that the comment was with regards to another project, the concern was directed to the appropriate City staff member.

Two (2) comments were received verbally and included the following comments:

- Request for an electronic copy of the display boards. The display boards were sent to the attendee on July 4, 2018; and,
- A representative had given permission to the Cole Engineering Group Ltd. (COLE) team to conduct Natural Heritage studies on their properties. Following completion of the studies it is requested that the results be shared.

General discussions were had with the public and included sizing of the storage facility. There were no opposing comments regarding the future elevated water storage facility and pumping station within the area.

Subsequently, one (1) comment sheet was received via email on August 20, 2018 which included the following comments:

- It was requested that a copy of the completed environmental reports be provided throughout the project. The completed Stage 1 Archeological Assessment Report and Cultural Heritage Resource Assessment were sent on August 22, 2018 and August 23, 2018, respectively. Other environmental reports will be provided as they become available.
- Future notification to the party is required for field work related to environmental and archaeological assessments.

Attachment A PIC Displays and Presentation Slides





Waterdown

Welcome to the Public Information Centre #2

ELEVATED WATER STORAGE FACILITY AND PUMPING STATION STUDY FOR PRESSURE DISTRICT 7 MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

We value your input in the decision-making process. Please fill out a comment sheet or discuss your concerns with one of our study representatives.

Welcome to the Public Information Centre 2



Introduction

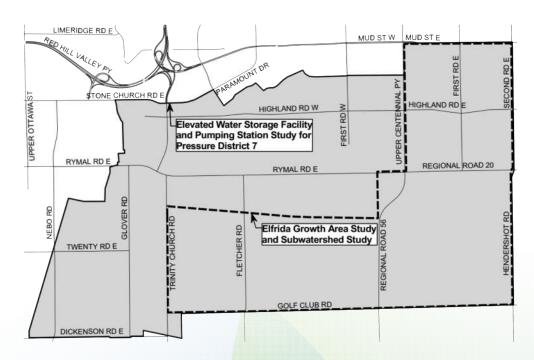
- The purpose of the Municipal Class Environmental Assessment (EA) is to select the preferred sites for a new elevated water storage facility and a new pumping station for future growth within Pressure District 7 (PD7) and to address security of supply and water system balancing.
- This project is classified as a Schedule "B" and is being undertaken in accordance with the planning process outlined in the *Municipal Engineers Association (MEA) Municipal Class Environmental Assessment document (Octorber2000, amended in 2007, 2015).*

Purpose of this Public Information Centre

• As a part of the Class EA process, the public is invited to provide feedback for consideration in the planning and design of this project. The Class EA process ensures that the opportunity is given to agencies and the public to provide comments and voice concerns regarding environmental, social, cultural, economic and other potential issues related to this project.

COLE

The Study Area

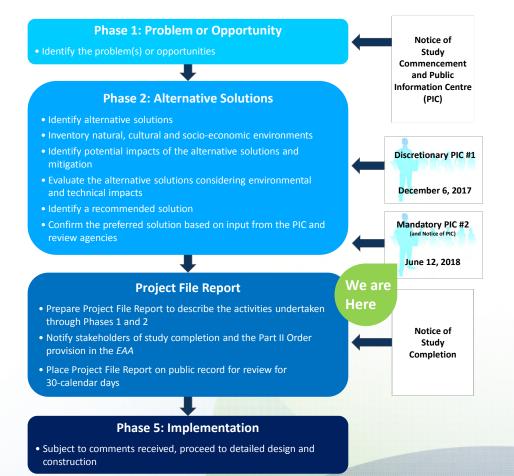


PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA | 2



Overview of the Municipal Class EA Process

- The Ontario Environmental Assessment Act (EAA) requires that most municipal infrastructure projects follow an approved Class EA process.
- This study is being conducted in accordance with the approved requirements for a Schedule "B", which includes Phases 1, 2 and 5 of the Municipal Class EA planning and design process.
- project as described in the Municipal Engineers Association's Municipal Class EA document.
- The study is currently in Phase 2: Alternative Solutions. The results of the evaluation identify the preferred sites for an elevated water storage facility and pumping station, which are presented at this second Public Information Centre (PIC).
- Review agencies and the public were notified of the PIC and will again be notified regarding the Project File Report completion, including the mandatory 30-day public review period.



PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA 3

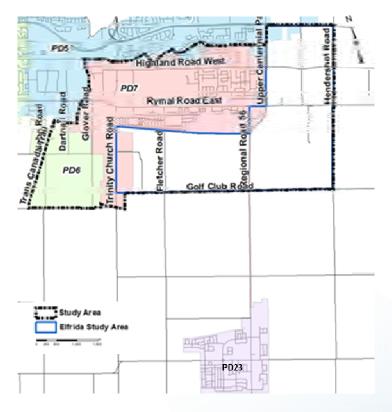


Problem Statement



PD7 Water System

- PD7 is located in the southeastern section of the City of Hamilton's water distribution system.
- PD7 is supplied from the Highland Pumping Station (HD007), which receives supply from PD5 or the Highland Reservoir (HDR07).
- The PD7 system also feeds subzone PD23 through the Binbrook Pumping Station (HD019).
- Sufficient storage and pumping capacities are provided in PD7 system under the existing condition.



Problem Statement

- The existing water system will not be able to maintain sufficient flow and pressures in the distribution system to support future growth. In addition, the existing system requires continuous pumping to meet varying demands, which results in high electricity and maintenance costs.
- It is the City's objective to provide adequate water services to the residents, businesses and industries to meet community needs in an efficient and cost-effective manner.
- Therefore, a solution is required in PD7 to provide additional storage and pumping capacity to support the future growth in PD7 and PD23 systems, as well as to improve water system security and reliability, and to improve the efficiency and reduce operation and maintenance costs.



PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA | 4

Key Considerations for Evaluation of Alternatives



Elevated Water Storage Facility (EWSF) and Pumping Station (PS) Site Selection Criteria and Constraints

- Locate outside the green belt area and Niagara Escarpment boundary and floodplains
- Consider property acquisition requirements
- Preferred 60 m x 100 m site area with good road access
- Proximity to existing watermain infrastructure
- Lowest aesthetic impact on existing residents and customers
- Minimum natural/heritage/environmental impacts
- Optimum distribution system hydraulics to provide adequate pressure and fire flows
- Additional Criteria and Constrains for Site Selection of Elevated Water Storage Facility

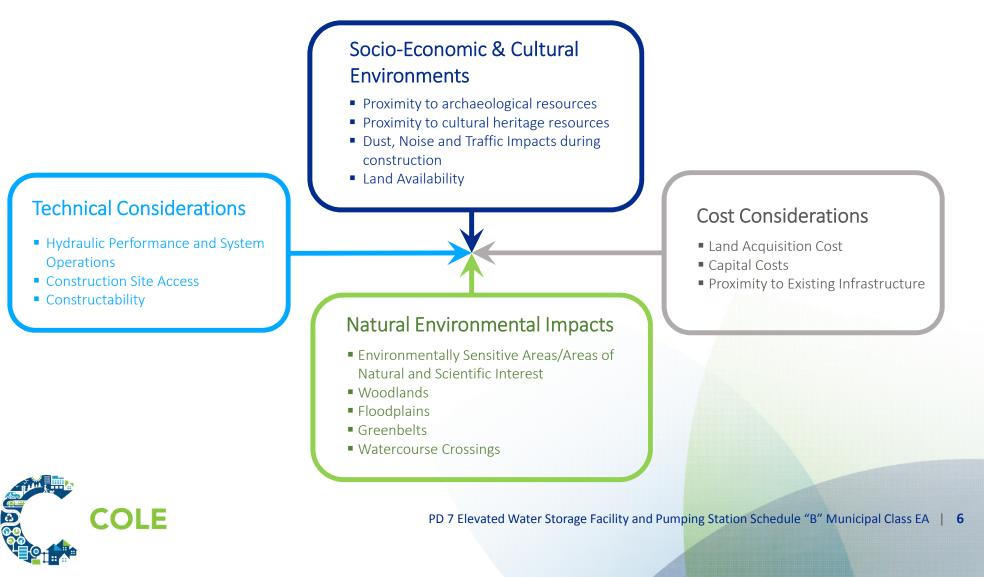
Additional Criteria and Constrains for Site Selection of Elevated Water Storage Facility

- Top water elevation of EWSF of around 265 m
- Look for local high ground area (minimum overall tank height)
- Away from John C. Munro Hamilton International Airport Zoning Regulation areas



Considerations for Evaluation of Alternatives





Alternative Sites Considered for Elevated Water Storage Facility and Pumping Station





Alternative Sites



Approach Burlace

Airport Bounda

i Surtave

John C, Munroe Hamilton International Airport Zoning Regulations

PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA 7

Elevated Water Storage Facility Site Considerations Airport Zoning Regulation



Alternative Sites Study Area Boundary

LEGEND

Findings:

- EWSF Site 5 is near the boundary of the airport zoning regulation areas, which is the least preferred site for the elevated water storage facility.
- Other four alternatives (EWSF Sites 1 to 4) are outside airport zoning regulation areas.
- Due to the height of a pumping station building, airport zoning regulation areas were not considered for the evaluation purposes of the PS sites.



PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA | 8

John C. Munroe Hamilton International Airport Zoning Regulations

Archaeological Assessments



Archaeological Services Inc. completed a Stage 1 Archaeological and Cultural Heritage Resource Assessment. The objective of the Stage 1 assessment was to determine the presence or absence of known archaeological sites in the Study Area and in proximity to the Alternative Sites for the proposed PD7 Elevated Water Storage Facility and Pumping Station and to identify the need for Stage 2 archaeological assessments for areas identified during the Stage 1 assessment as having potential archaeological planning concerns.



Findings:

- EWSF Sites 1, 2 and 5: There are potential for archaeological resources. A Stage 2 archaeological assessment is required if this site is selected.
- EWSF Sites 3 and 4: Have been subject to Stage 2 survey and no further archaeological concerns.
- PS Sites 1 and 2: There are potential for archaeological resources. A Stage 2 archaeological assessment is required if this site is selected.
- PS Site 3: Has been subject to Stage 2 survey and no further archaeological concerns.



PD 7 Elevated Water Storage Facility and Pumping Station Schedule "B" Municipal Class EA | 9

Built and Heritage Assessments



Archaeological Services Inc. completed the cultural heritage resource assessment. The objective is to present a built heritage and cultural landscape inventory of cultural heritage resources, identify existing conditions of the study area, identify impacts to cultural heritage resources, and propose appropriate mitigation measures.



Findings:

- EWSF Site 1: Potential negative impact to CHL 2 (406 Fletcher Road). A Heritage Impact Assessment is required if this site is selected.
- EWSF Site 3: Potential impact to BHR 2 (420 Trinity Church Road). At the time of site visit, this building was inaccessible, as such, a Heritage Impact Assessment is required if this site is selected.
- EWSF Sites 2, 4 and 5: No negative impacts to identified cultural heritage resources. No further concern regarding cultural heritage resources.
- PS Sites 1, 2 and 3: No negative impacts to identified cultural heritage resources.
 No further concern regarding cultural heritage resources.



Evaluation of Five EWSF Locations



Evalu	ation Criteria			Alternative Elevated Water Storage Facility (EWSF)	Sites	
		EWSF Site 1	EWSF Site 2	EWSF Site 3	EWSF Site 4	EWSF Site 5
ment	Potential Effects to Water Resources:	An unnamed tributary of Hannon Creek runs through this site.	An unnamed tributary of Hannon Creek runs through this site.	No surface water features are present within this site	An unnamed tributary of Hannon Creek runs through this site.	No surface water features are present within this site
Natural Environment	Potential Effects to Natural Heritage Features:	The Eramosa Karst Earth Science ANSI is located approximately 150 m north of this site. Potential for presence of species at risk or suitable habitat. A field investigation is underway.	The Eramosa Karst Earth Science ANSI is located approximately 50 m north of this site. Potential for presence of species at risk or suitable habitat. A field investigation is underway.	Potential for presence of species at risk or suitable habitat. A field investigation is underway.	Potential for presence of species at risk or suitable habitat. A field investigation is underway.	Potential for presence of species at risk or suitable habitat. A field investigation is underway.
	Potential for Noise, Traffic, Dust Impacts Disrupting Surrounding Area During Construction	Medium, near residential Areas	Medium, near residential Areas	Low, South of 20th Road	Low, South of 20th Road	Low, South of 20th Road
ment	Proximity to Archaeological Resources	Potential for archaeological resources. A Stage 2 Archaeological Assessment is required.	Potential for archaeological resources. A Stage 2 Archaeological Assessment is required.	No archaeological concern	No archaeological concern	Potential for archaeological resources. A Stage 2 Archaeological Assessment is required.
Social/Cultural Environ	Proximity Cultural Heritage Resources	Potential negative impact to CHL 2 (406 Fletcher Road). A heritage impact assessment is required.	No negative impacts to identified cultural heritage resources.	Potential impact to BHR 2 (420 Trinity Church Road). At the time of site visit, this building was inaccessible, as such, a Heritage Impact Assessment is required if this site is selected.	No negative impacts to identified cultural heritage resources	No negative impacts to identified cultural heritage resources
ial/cult	Proximity to C. Munro Hamilton International Airport Zoning Regulation areas	2 km away from the Airport Zoning Regulation areas	2 km away from the Airport Zoning Regulation areas	2 km away from the Airport Zoning Regulation areas	1.7 km away from the Airport Zoning Regulation areas	Near boundary of Airport Zoning Regulation areas
ŝ	Land Ownership	Privately owned	Privately owned	Owned by the City	Privately owned	Privately owned
Financial	Estimated Capital Costs Including Land Acquisition	\$13.3 M	\$13.3 M	\$12 M	\$13.3 M	13.6 M
	Tower Height	50 m	49 m	47 m	47m	49 m
nical	Ability to coordinate with planned infrastructure improvements	Most preferred location. Located within PD7 system. Within Elfrida Growth Area. A short distance from the existing watermain along Eletcher Road North.	Most preferred location. Located within PD7 system. Within Elfrida Growth Area. A short distance from the existing watermain along Eletcher Road North.	Most preferred Location. Located within PD7 system. In close proximity to Elfrida Growth Area and the existing watermain along Trinity Church Road,	Less preferred location. Located within PD6 system and away from Elfrida Growth Area. Requriement of PD7 watermain connection (within PD6 system), which which may not be re-used to support future growth in the area.	The site is the least preferred location. Located withi PD6 system and away from Elfrida Growth Area. Requirement of the longest PD7 watermain connectin (within PD6 system), which may not be re-used to support future growth in the area.
Techni	Constructability and Site Access	Accessible by minor arterial road Fletcher Road North	Accessible by minor arterial road Fletcher Road North	Accessible by minor arterial road Trinity Church Road	Accessible by minor arterial road Fletcher Road North	Accessible by minor arterial road Fletcher Road North
	System reliability and hydraulic performance	Most preferred hydraulically. Highest pressures in PD7 when operated under gravity.	Most preferred hydraulically. Highest pressures in PD7 when operated under gravity.	Most preferred hydraulically. Highest pressures in PD7 when operated under gravity.	Less preferred hydraulically due to the distance to the demand centre results in greater pressure losses.	This site is the least preferred hydraulically due to the diatance to the demand centre results in the greatest pressure losses.
	Summary	An unnamed tributary runs through this site. In close proximity to the Eramosa Karst Earth Science ANSI- Potential for presence of species at risk or suitable habitat. Medium impact during construction. Potential for archaeological resources. Potential negative impact to Cultural Heritage Resources. Away from boundary of Airport Zoning Regulation areas. Privately owned: Tank is required to be taller due to lower ground elevation. Ability to coordinate with planned infratructure improvements. Most preferred hydraulically.	An unnamed tributary runs through this site, In close proximity to the Eramosa Karst Earth Science ANSI, Potential for presence of species at risk or suitable habitat. Medium impact during construction. Potential for archaeological resources. No negative impacts to identified cultural heritage resources. Away from boundary of Airport Zoning Regulation areas. Privately owned: Tank is required to be taller due to lower ground elevation. Ability to coordinate with planned infrastructure improvements. Most preferred hydraulically.	No surface water features are present within this site. Potential for presence of species at risk or suitable habitat. Away from major residential areas and will have low construction impact. No archaeological concern. Potential negative impact to Cultural Heritage Resources. Away from boundary of Airport Zoning Regulation areas. Owned by City. Reduced Tank height. Ability to coordinate with planned Infrastructure improvements. Reduced costs. Most preferred hydraulically.	An unnamed tributary runs through this site. Potential for presence of species at risk or suitable habitat. Away from major residential areas and will have low construction impact. No archaeological concern. No negative impacts to Identified cultural heritage resources. Away from boundary of Airport Zoning Regulation areas. Privately owned. Reduced Tank height. Away from urban area, less ability to coordinate with planned infrastructure improvements. Less preferred hydraulically.	No surface water features are present within this site Potential for presence of species at risk or suitable habitat. Away from major residential areas and will in low construction impact. Potential for archaeologica resources. No negative impacts to identified cultural heritage resources. Located baside boundary of Airpr Zoning Regulation areas. Privately owned. Tank is required to be tailer due to lower ground elevation. Away from urban area, less ability to coordinate with planned infrastructure improvements. Least prefere hydraulically and location.



Preferred: Most



Evaluation of Three Pumping Station Locations



Evalu	ation Criteria		Alternative Pumping Station Sites			
		Pumping Station Site 1	Pumping Station Site 2	Pumping Station Site 3		
ŧ	Potential effects to water resources	An unnamed tributary of Sinkhole Creek runs through this site.	An unnamed tributary of Stoney Creek runs through this site.	Limited Potential Impact		
Natural Environme	Potential effects to natural heritage features	A woodland is present within 100 m of this site. Potential for presence of species at risk or suitable habitat. A field investigation is underway.	Potential for presence of species at risk or sultable habitat. A field investigation is underway.	Limited potential impact. A field investigation is underway.		
Environment	Potential for Noise, Traffic, Dust Impacts Disrupting Surrounding Area During Construction	Medium, near residential Areas	Medium, near residential Areas	High, near residential Areas		
ultural E	Proximity to Archaeological Resources	Potential for archaeological resources. A Stage Z Archaeological Assessment is required.	Potential for archaeological resources. A Stage 2 Archaeological Assessment is required.	No archaeological concern		
ial/0	Proximity Cultural Heritage Resources	No negative impacts to identified cultural heritage resources.	No negative impacts to identified cultural heritage resources	No negative impacts to identified cultural heritage resources		
Soc	Land Ownership	Owned by City	Privately owned	Privately owned		
Financial	Estimated capital costs including land acquisition	\$20 M	\$21 M	\$21M		
	Constructability and Site Access	Accessible by minor arterial road Rymal Road East	Accessible by urban local road Upper Centennial Parkway	Accessible by urban local road Rymal Road East		
chnical	Ability to coordinate with planned infrastructure improvements	Ability to coordinate with planned infrastructure improvements. Located within Elfrida Growth Area.	Ability to coordinate with planned infrastructure improvements. Located within Elfrida Growth Area.	Least ability to coordinate with planned infrastructure improvements. Located within urban area.		
Te	System reliability and hydraulic performance	Most preferred hydraulically. Highest pressures in PD7.	Most preferred hydraulically. Highest pressures in PD7	This site is the least preferred hydraulically due to the distance to the demand centre results in the greatest pressure losses.		
	Summary	An unnamed tributary of Hannon Creek runs through this site. In close proximity to a woodland. Potential for presence of species at risk or suitable habitat. Medium impact during construction. Potential for archaeological resources. No negative impact to Cultural Heritage Resources. Owned by City. Ability to coordinate with planned infrastructure improvements. Reduced costs. Most preferred hydraulically.	An unnamed tributary of Hannon Creek runs through this site. Potential for presence of species at risk or suitable habitat. Medium impact during construction. Potential for archaeological resources. No negative impact to Cultural Heritage Resources. Privately owned. Ability to coordinate with planned infrastructure improvements. Most preferred hydraulically.	Limited potential natural environmental impacts. High impact during construction. No negative impact to archaeological resources. No negative impact to Cultural Heritage Resources. Privately owned. Least ability to coordinate with planned infrastructure improvements. Located within urban area. Least preferred hydraulically.		

Preferred: Most



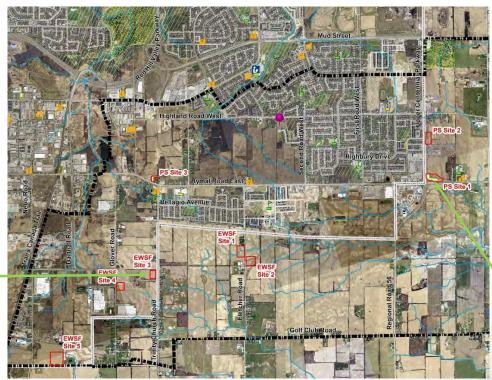
Preferred Sites Identified





Elevated Water Storage Facility on Trinity Church Road (EWSF Site 3)

This option is technically suitable and most cost effective, while having limited potential for environmental and socio-economic impacts.

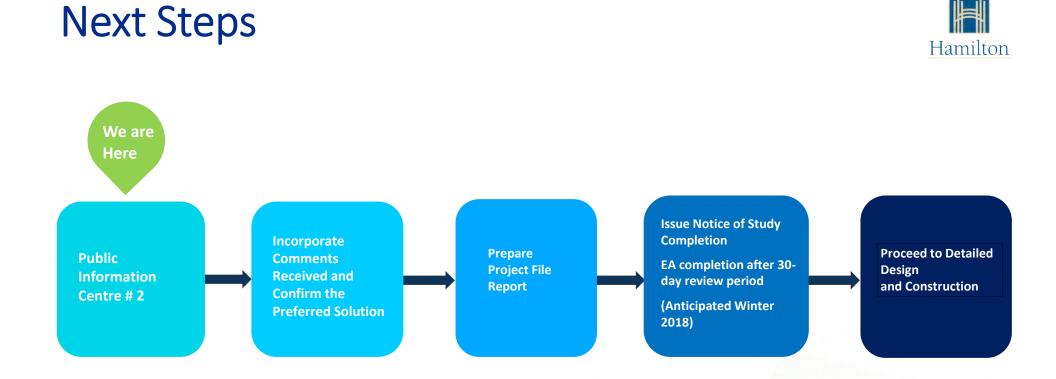




Pumping Station on Rymal Road West (PS Site 1)

While it has moderate potential for impact to archaeological resources, this solution offers the most cost effective, technically suitable and has limited potential for environmental and socio-economic impacts.







Project Team Contact



Comment sheets are provided – please place completed sheets in the Comment Box or Contact:

Winston Wang, P. Eng., Project Manager City of Hamilton 77 James Street North, Suite 400 Hamilton, ON L8R 2K3 Tel: 905-546-2424 Ext. 4092 Fax: 905-546-4491 Email: winston.wang@hamilton.ca Shelley Kuan, P. Eng., Project Manager Cole Engineering Group Ltd. 70 Valleywood Drive Markham, ON L3R 4T5 Tel: 905-940-6161 Ext. 371 Fax: 905-940-2064 E: skuan@ColeEngineering.ca

All comments collected throughout this process will be considered in the final evaluation of alternative sites.

If you wish to receive additional information, please provide your contact information to one of our study representatives.

Thank you!



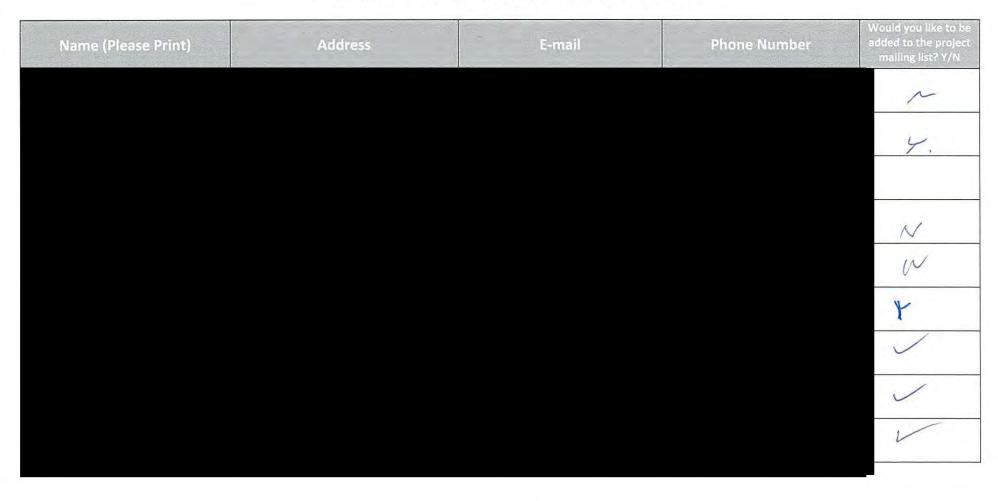
Attachment B Sign-In and Comment Sheets



SIGN-IN SHEET

Public Information Centre #2 – June 12, 2018

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm



Page ____ of ____

COLE



SIGN-IN SHEET

Public Information Centre #2 – June 12, 2018

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

Name (Please Print)	Address	E-mail	Phone Number	Would you like to be added to the project mailing list? Y/N
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SIGN-IN SHEET

Public Information Centre #2 – June 12, 2018

Valley Park Recreation Centre and Arena 970 Paramount Drive, Stoney Creek, Hamilton, 6:00 - 8:30 pm

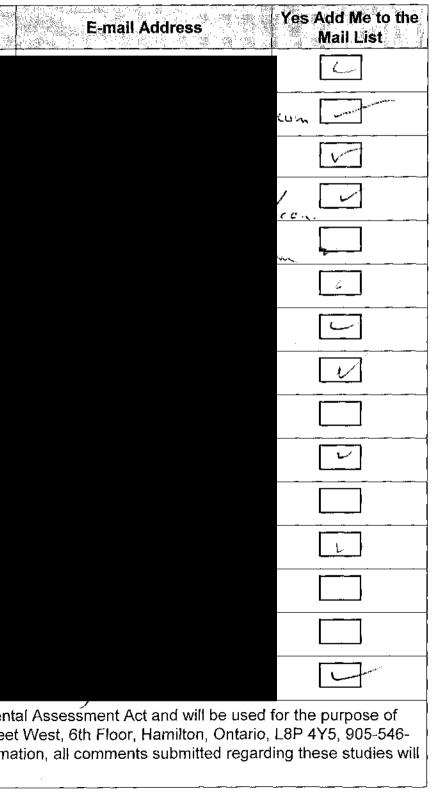
Name (Please Print)	Address	E-mail	Phone Number	Would you like to be added to the project mailing list? Y/N
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2424 ext. 1279. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments submitted regarding these studies will become part of the public record.

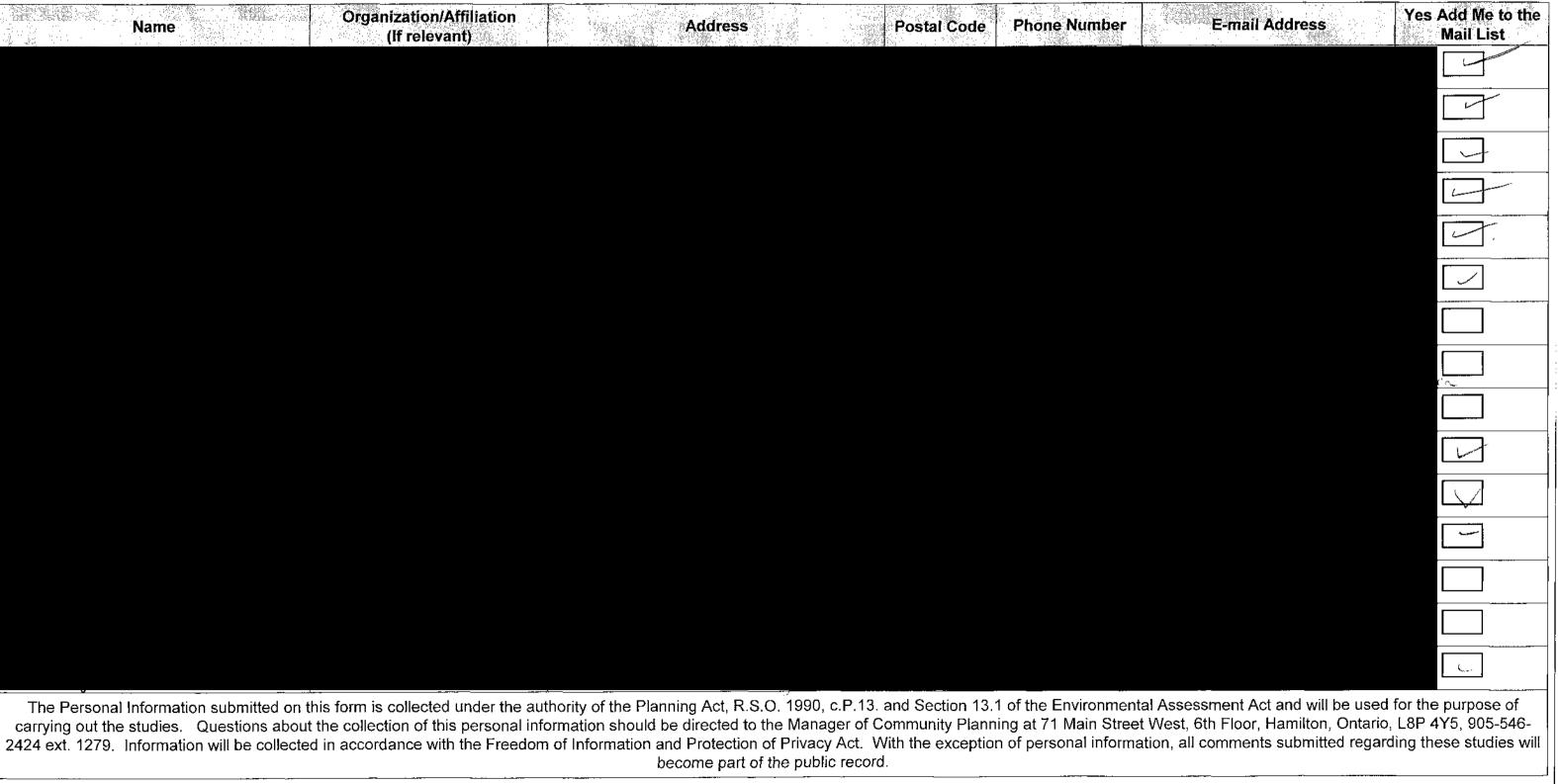


Hamilton

ELFRIDA GROWTH AREA STUDY, ELFRIDA SUBWATERSHED STUDY AND WATER STORAGE FACILITY AND PUMPING STATION STUDY FOR PRESSURE DISTRICT 7 COMMUNITY MEETING Tuesday, June 12, 2018 SIGN-IN SHEET (Please Print Clearly)

become part of the public record.

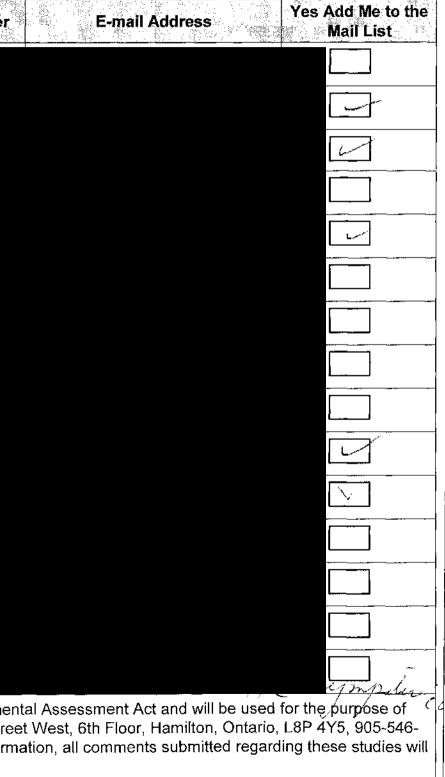
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carrying out the studies. Questions about the collection of this personal information should be directed to the Manager of Community Planning at 71 Main Street West, 6th Floor, Hamilton, Ontario, L8P 4Y5, 905-546-2424 ext. 1279. Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments submitted regarding these studies will become part of the public record.





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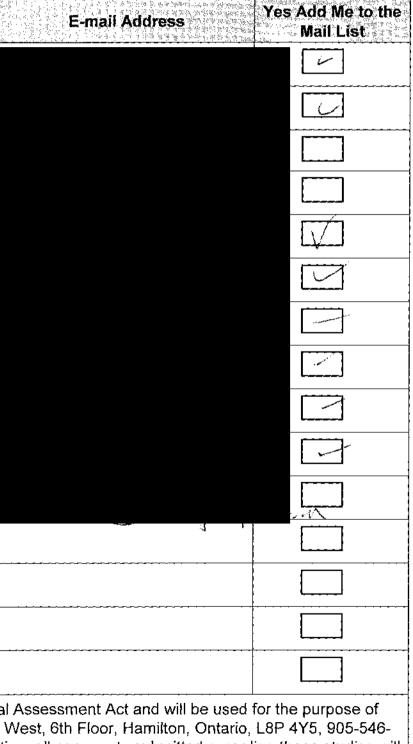
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Comment Sheet Public Information Centre #2 – June 12, 2018

The City of Hamilton is conducting a Municipal Class Environmental Assessment (EA) study to identify the preferred site for a new elevated water storage facility and a new pumping station. As identified in previous studies completed by the City, these new infrastructures are required for security of supply, water system balancing, and to provide water supply for future growth within the southeast mountain area (Pressure District 7).

We are interested in your comments and suggestions regarding this project. Please take a few minutes to complete this comment sheet.

1. Why are you interested in this project?

STUDY

IN

2. The alternative sites will be compared based on the evaluation criteria listed on the

AREA

displays. Are there any other criteria that should be considered?	□ Yes	🗆 No
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3. What impacts might this project have on you?

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4. Do you have any additional comments or require further information about the project?

5. Would you like to be added to the project mailing list?
Yes No

Please submit your written comments before leaving the Public Information Centre.

If you require more time to comment, please send your comments to either of the following Project Team Members by August 20, 2018:

Shelley Kuan, P. Eng., Project Manager Cole Engineering Group Ltd. 70 Valleywood Drive Markham, ON L3R 4T5 Tel: 905-940-6161 Ext. 371 E: <u>skuan@ColeEngineering.ca</u> Winston Wan, P. Eng., Project Manager City of Hamilton 77 James Street North, Suite 400 Hamilton, ON L8R 2K3 Tel: 905-546-2424 Ext. 4092 Email: <u>winston.wang@hamilton.ca</u>

PLEASE CLEARLY PRIM	NT YOUR NAME AND CONTACT INFORMATION BELOW:
First Name:	Street:
Last Name:	City:
Telephone:	Postal Code
E-Mail:	Fax:

Comments and information regarding this project are being collected to assist the City of Hamilton in completing the Municipal Class EA. This material will be maintained on file for use during the project and may be included in the project documentation. Information collected will be used in accordance with the *Freedom of Information and Privacy Act*. With the exception of personal information, all comments will become part of the public record.





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We are interested in your comments and suggestions regarding this project. Please take a few minutes to complete this comment sheet.

1. Why are you interested in this project?

ARCHAEOLOGY AND ENVILONMENTAL ASPECTS TILF MCEA STUDY

2. The alternative sites will be compared based on the evaluation criteria listed on the displays. Are there any other criteria that should be considered?

3. What impacts might this project have on you?

- IDENTIFY ARCHAEOLUGY STRES - TOENTIFY ENVILONMESTAL WLTURAL STRES



4. Do you have any additional comments or require further information about the project?

INCIDA FIELD र्श्व FNV 200NMEN WIEDNMENT STUDIES JARD PLIETED REPORTS STECT ROLL 8 ENVILONMENTAL F -71 Jun. 5. Would you like to be added to the project mailing list? No

Please submit your written comments before leaving the Public Information Centre.

If you require more time to comment, please send your comments to either of the following Project Team Members by July 25, 2018:

Shelley Kuan, P. Eng., Project Manager Cole Engineering Group Ltd. 70 Valleywood Drive Markham, ON L3R 4T5 Tel: 905-940-6161 Ext. 371 E: <u>skuan@ColeEngineering.ca</u>

Winston Wan, P. Eng., Project Manager City of Hamilton 77 James Street North, Suite 400 Hamilton, ON L8R 2K3 Tel: 905-546-2424 Ext. 4092 Email: winston.wang@hamilton.ca

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First Name:	Street:
Last Name:	City:
Telephone:	Postal Code:
E-Mail:	Fax:

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