

WELCOME



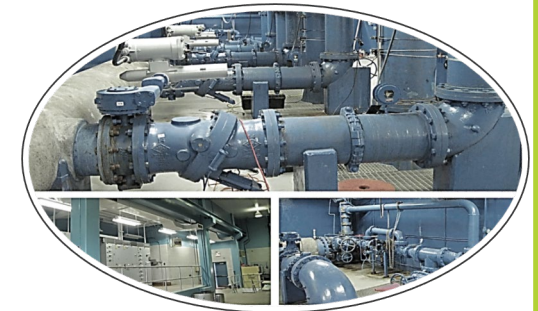
VIRTUAL PUBLIC INFORMATION CENTRE NO. 2

APRIL 28, 2023 TO MAY 19, 2023

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT SCHEDULE B

Main & Whitney (HD17A) Water Pumping Station Class EA and Conceptual Design

*We value your input in the decision-making process.
Click the link below to download and fill in a Comment Sheet
www.hamilton.ca/mainwhitneystationea*



*Please submit the completed Comment Sheet to the Project Team by email or mail.
The deadline to submit your comments is **May 19, 2023***



PROJECT UPDATE

Project Overview

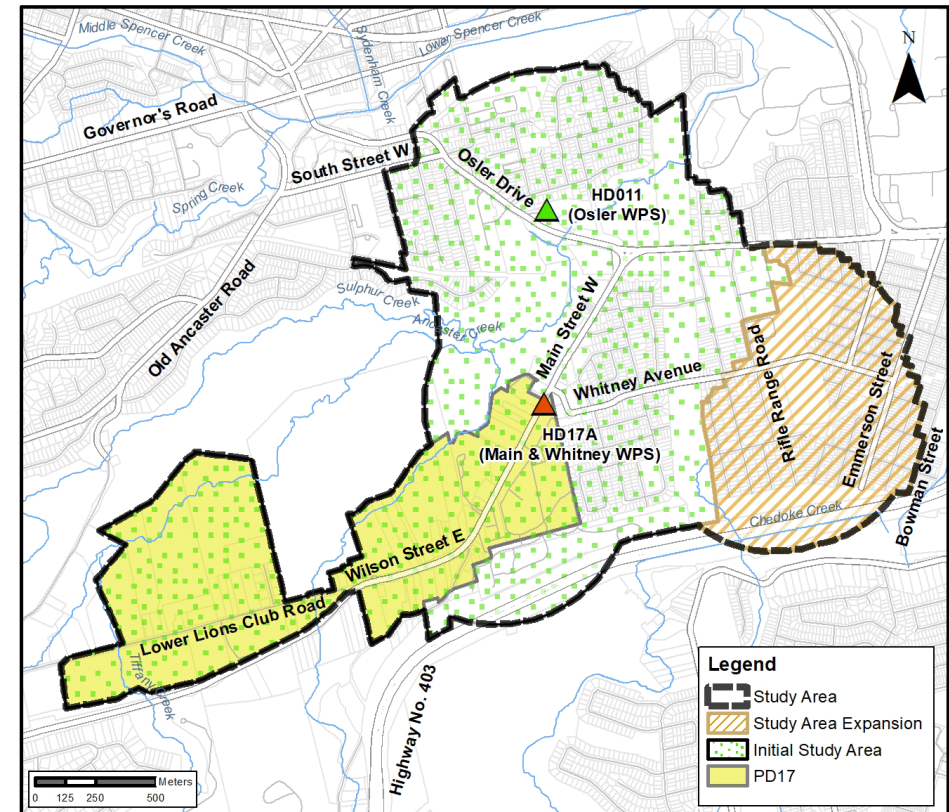
- The City of Hamilton has initiated a Municipal Class Environmental Assessment (Class EA) study following the Schedule B process to develop and assess alternative solutions for a new Water Pumping Station (WPS) to replace the existing Main & Whitney (HD17A) Pumping Station WPS.
- The first Public Information Centre (PIC) was held virtually between May 12, 2022 and June 2, 2022. The purpose of the first PIC was to introduce the Class EA Study, provide the public an opportunity to comment on the background studies for existing conditions, and outline next steps.

Purpose of this Public Information Centre

This second PIC is being held virtually to present a project update including the revised Study Area, the evaluation of alternatives and the recommended alternative site of the new WPS, and the next steps. The purpose of the second PIC is to obtain public input on the recommended alternative site.

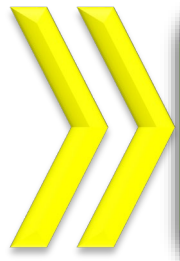
Study Area Expansion

Following the first PIC and through the evaluation and screening of the potential alternative sites, the initial Study Area presented at the first PIC was expanded to include a larger area. The boundary of the Class EA Study Area has been expanded further east, as shown in the figure below.



PROBLEM / OPPORTUNITY STATEMENT

Why is the Project necessary?



The existing HD17A WPS:

- Is beyond its recommended useful life and requires substantial rehabilitation
- Does not meet the current design standards or eliminate existing health and safety risks

What does the Project involve?



- Constructing a new WPS near the existing HD17A WPS and continuing to provide long term water servicing for the customers within Pressure District 17 (PD17)
- Decommissioning the existing HD17A WPS, once the new water pumping station is commissioned and fully operational
- Watermain construction may be required depending on the preferred location



PROBLEM / OPPORTUNITY STATEMENT



A solution is required for a new water pumping station to replace the existing HD17A WPS at a new site near its current location to service customers within PD17, to enhance water system security and reliability, and to meet the MECP guidelines and City design standards, while improving system operating efficiencies.



OVERVIEW OF MUNICIPAL CLASS EA PROCESS


- An **Environmental Assessment (EA)** is a planning and approval process for most municipal infrastructure projects, following the Ontario Environmental Assessment Act (EAA).
- This Study is being conducted in accordance the Class EA Process for **Schedule B** Projects.

Process for Schedule B Projects

Phase 1: Problem or Opportunity

- Review existing conditions
- Identify problems and/or opportunities

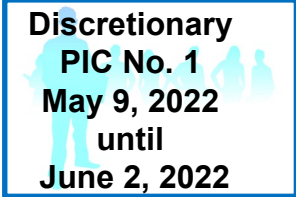
Notice of Study Commencement and Public Information Centre (PIC)



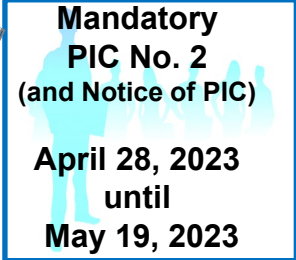
Phase 2: Alternative Solutions

- Identify alternative solutions
- Inventory natural, cultural and social-economic environments
- Identify potential impacts of the alternative solutions after mitigation
- Evaluate the alternative solutions considering environmental and technical impacts
- Confirm the preferred solution considering input from the public and review agencies

Discretionary PIC No. 1
May 9, 2022 until June 2, 2022



Mandatory PIC No. 2 (and Notice of PIC)
April 28, 2023 until May 19, 2023



We are Here

Class EA Documentation

- Document decision-making and public feedback
- Prepare Project File Report to describe the activities undertaken through Phases 1 and 2
- Notify stakeholders of completion of the Study and the Section 16 Order provision in the EAA
- Prepare Staff Report and Council Meeting
- Place project file report on public record for review for 30 calendar days

Notice of Study Completion

Phase 5 Implementation

- Detailed design and construction



“DO NOTHING” SCENARIO

Existing Main & Whitney (HD17A) Water Pumping Station (located at Main Street West and Whitney Avenue)

- Maintain the status quo
 - below grade confined space subject to Confined Space Entry procedure
 - beyond its recommended useful life
 - requirement of substantial rehabilitation
- does not meet current design standards or eliminate existing health and safety risks.
- does not address the problem / opportunity, which is to provide water supply to service customers within PD17 and to meet the current design standards



The “Do Nothing” scenario is not a viable alternative and not included in the long list of alternatives for further screening and/or evaluation.

DEVELOPMENT OF ALTERNATIVE SOLUTIONS

Alternative Concept Generation

- Rule out “Do Nothing” scenario – requirement of a new water pumping station for PD17
- Develop key considerations for selection of potential sites
- Select initial long-listed potential sites (21 Sites)
- Develop pre-screening criteria for long-listed potential sites
- Perform qualitative evaluation through pre-screening
- Select most promising and feasible short-listed alternative sites (7 Sites)
- Perform detailed evaluation of short-listed alternative sites including their conceptual water infrastructure plans

Key Considerations for Potential Sites

- a publicly-owned land (preferrable)
- an open space (or no existing building)
- a larger land parcel
- near a larger watermain, and
- proximity to existing HD17A WPS (or PD17)

Pre-screening Criteria for Long-listed Alternative Sites

- The site is optimally
 - ~ 35m by 22m (to meet size requirement)
- The site should
 - minimize impact on natural environment
 - minimize impact on social/cultural environment
 - be relatively close to the existing HD17A WPS (or PD17)

EVALUATION CRITERIA FOR ALTERNATIVE SITES

Natural Environment

- Impact to Environmentally Sensitive Areas (ESA) / Areas of Natural and Scientific Interest (ANSI)
- Impact to wildlife, vegetation, trees, aquatic species, Species At Risk (SAR), and habitat

Sociocultural Environment

- Dust, noise, and traffic impacts to neighbourhoods
- Impact to archaeological resources
- Impact to cultural heritage resources

Technical Considerations

- Proximity to the existing HD17A WPS (or PD17)
- Hydraulic performance
- Ease of construction
- Approvals/permits and implementation

Cost Considerations

- Construction costs
- Operation and maintenance costs
- Property costs

Property Acquisition Considerations

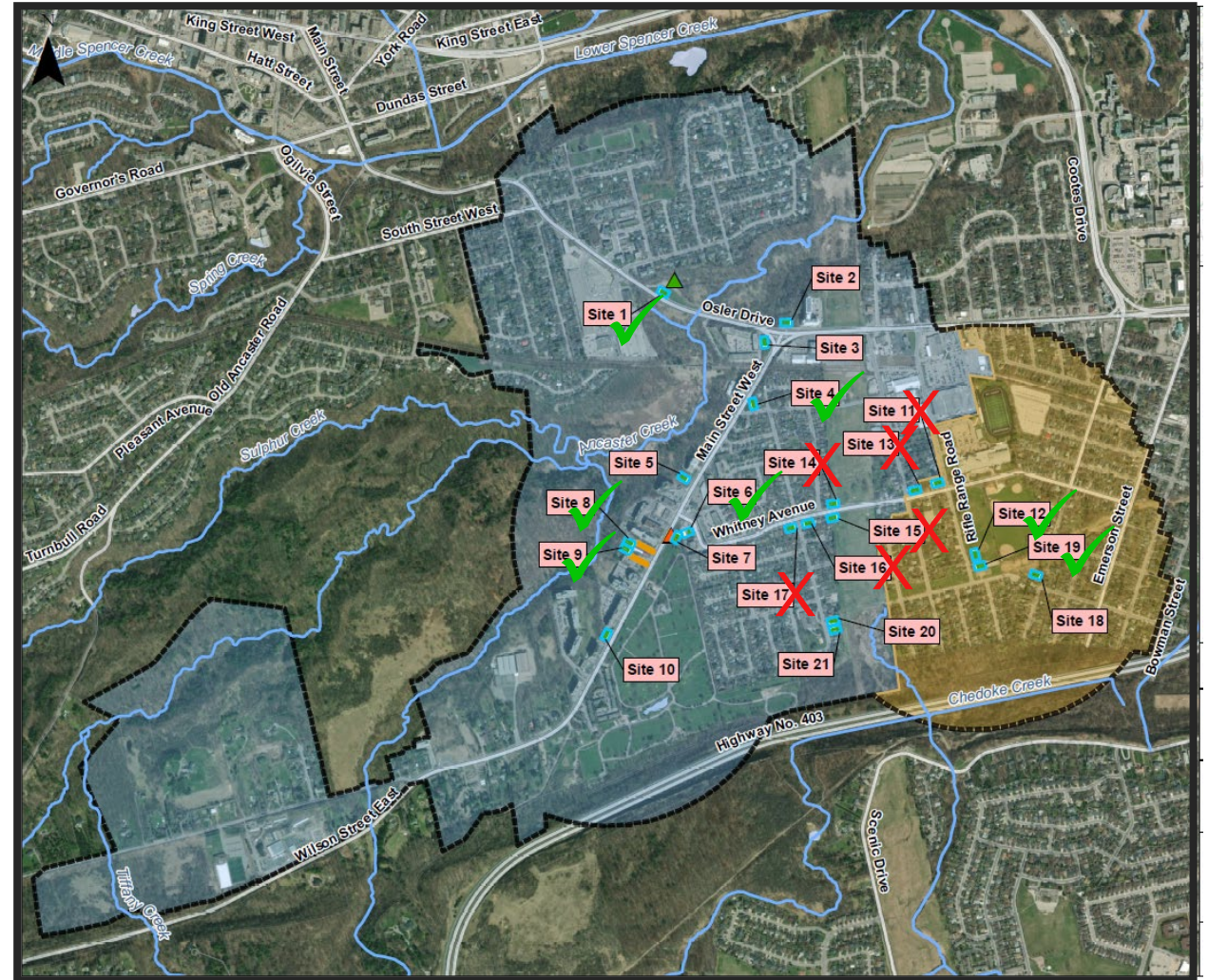
- Land availability (public vs private)



EVALUATION OF ALTERNATIVE SITES

Evaluation of Alternative Sites

- A total of twenty-one (21) alternative sites were reviewed and evaluated
- Six (6) alternative sites have indicated land restrictions through pre-screening and are not considered further: Sites 11, 13, 14, 15, 16, and 17 indicated by (X) on the map
- Fifteen (15) alternative sites are large enough and were evaluated further
- Seven (7) alternative sites were short-listed for detailed evaluation: Sites 1, 4, 6, 8, 9, 12, and 19 indicated by (✓) on the map



SHORT-LISTED ALTERNATIVE SITE 6

Site 6 is located at 1845 Main Street West
(site leased to Treehouse Cannabis Company)

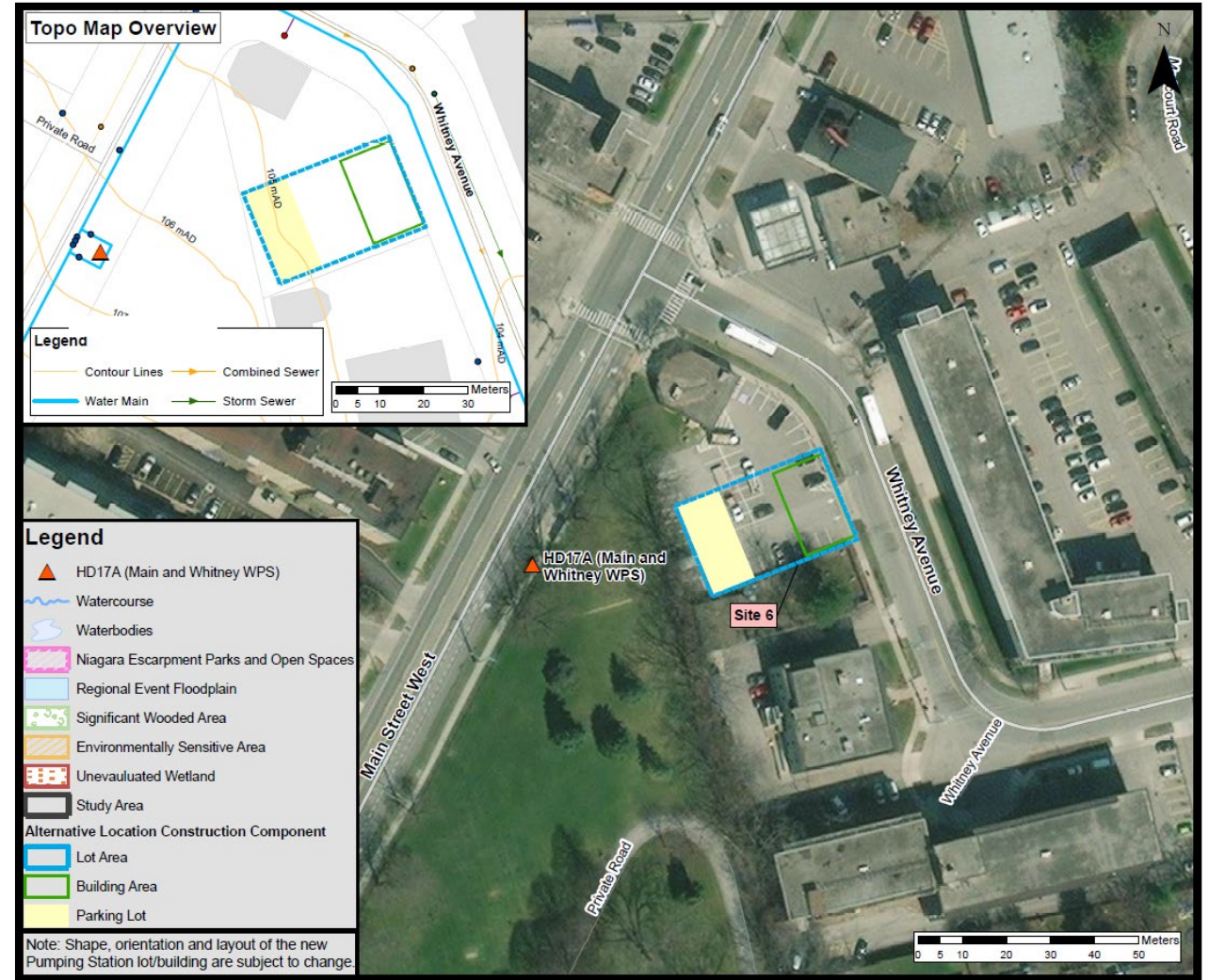
Benefits

- presence of a commercial parking lot
- located adjacent to the existing HD17A WPS (or PD17)
- lowest impact on local neighbourhoods during construction
- lowest potential for environmental impact
- most hydraulically sound option
- most cost-effective option

Challenges

- City would need to acquire the whole or part of property
- some potential for sociocultural impacts (location is adjacent to White Chapel Memorial Gardens, a cemetery and crematorium); however, these can be mitigated

Most Preferable and recommended Alternative - Site 6



SHORT-LISTED ALTERNATIVE SITE 1

Site 1 is located adjacent to and SW of 130 Osler Drive
(site adjacent to existing Osler WPS, HD011)

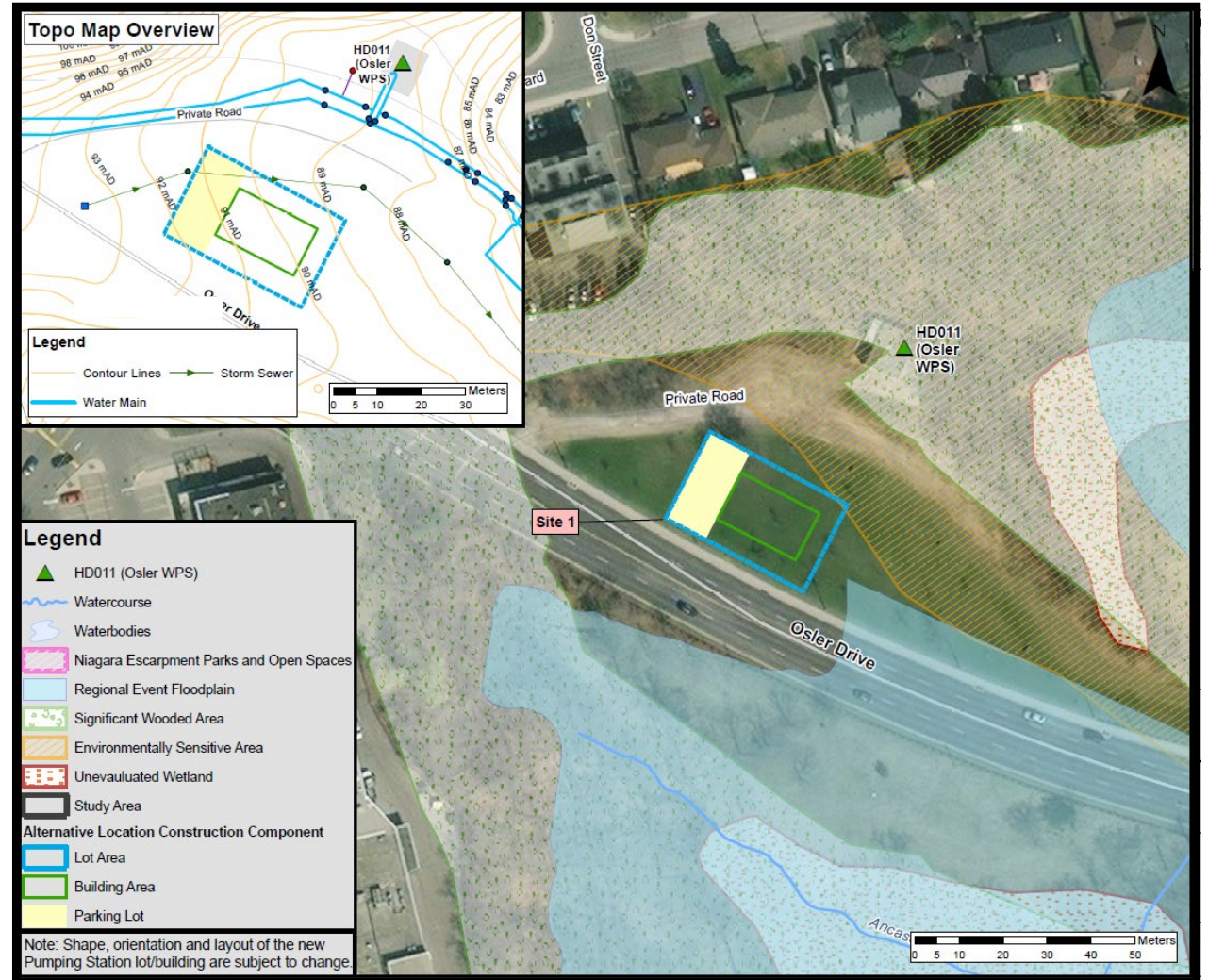
Benefits

- open space
- City-owned land
- no additional property required
- low potential for environmental impact
- moderately cost-effective

Challenges

- adjacent to an environmentally sensitive area
- within an HCA-regulated area
- not located close to either the existing HD17A WPS (or PD17), which results in the need for more linear infrastructure works

Second-most Preferable Alternative – Site 1



SHORT-LISTED ALTERNATIVE SITE 12

Site 12 is located at 125 Rifle Range Road
(site owned by the Conseil Scolaire
Viamonde - French School Board)

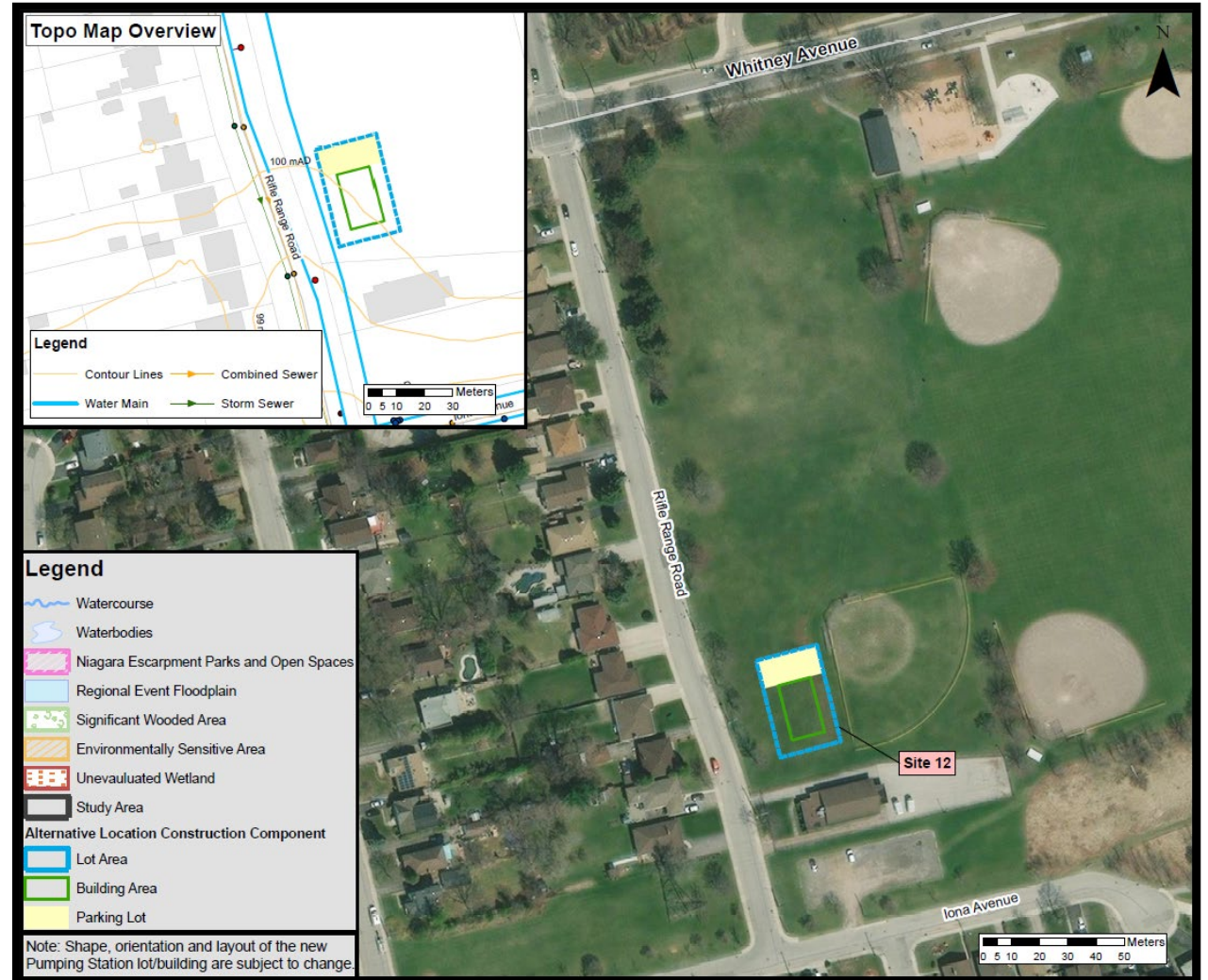
Benefits

- open-space institutional property
- low potential for environmental impact
- moderately cost-effective

Challenges

- not located close to the existing HD17A WPS (or PD17)
- City would need to acquire part of the property
- some potential for sociocultural impacts (e.g., adjacent to Alexander Park) and construction activities within undisturbed areas; this can be mitigated, although additional studies may be required
- less hydraulically sound option

Third-Most Preferable Alternative – Site 12



SHORT-LISTED ALTERNATIVE SITE 19

Site 19 is located at 161 Rifle Range Road
(site owned by the Trustees of Meeting Rooms Association Hamilton-Burlington Area)

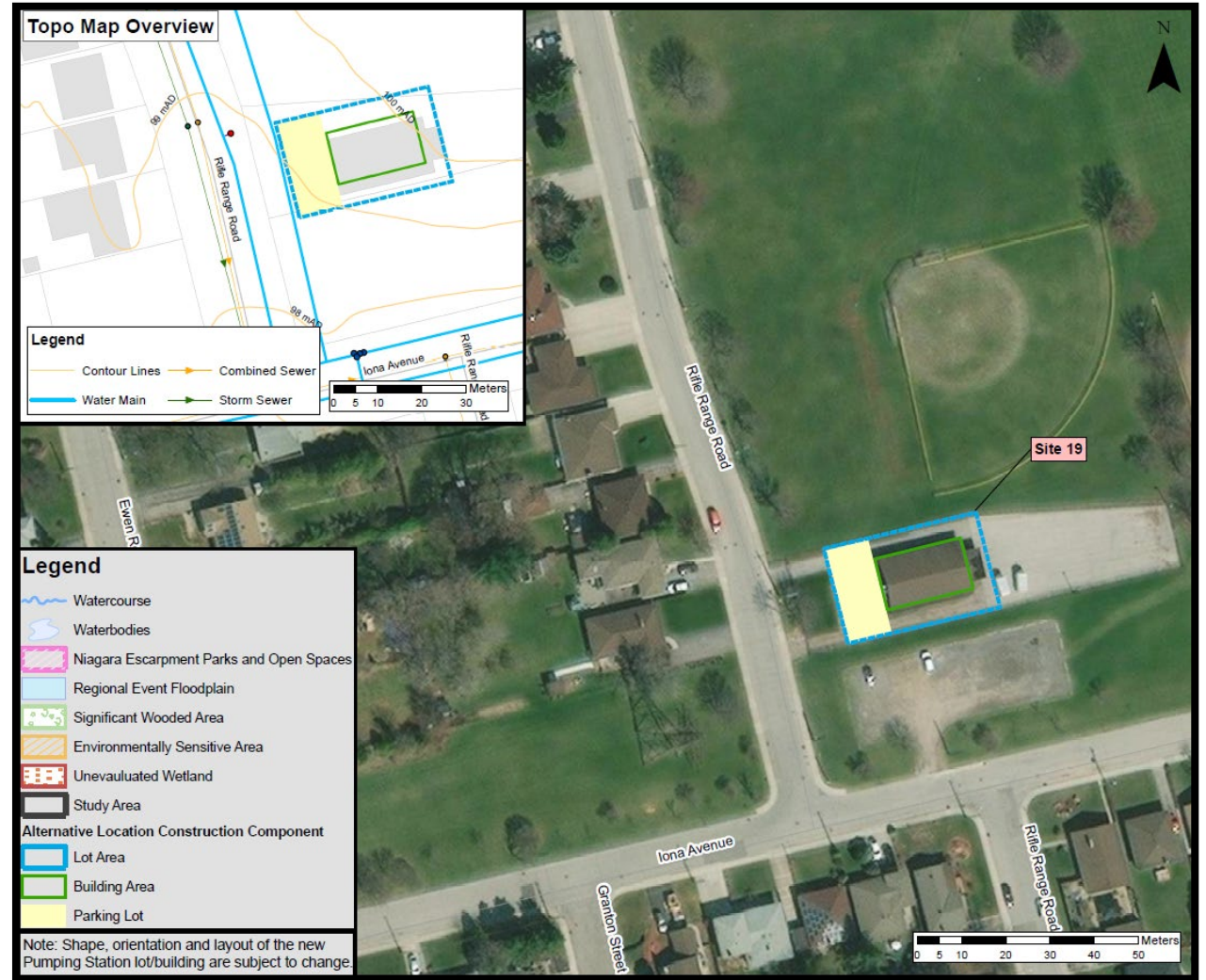
Benefits

- low potential for environmental impact

Challenges

- not located close to the existing HD17A WPS (or PD17)
- City would need to acquire the property
- some potential for sociocultural impacts (e.g., adjacent to Alexander Park) and other impacts (construction activities within undisturbed areas); these can be mitigated, although additional studies may be required
- less hydraulically sound option
- less cost-effective

Fourth-Most Preferable Alternative – Site 19



SHORT-LISTED ALTERNATIVE SITE 8

Site 8 is located at 1870 Main Street West
(site of Haven Inn)

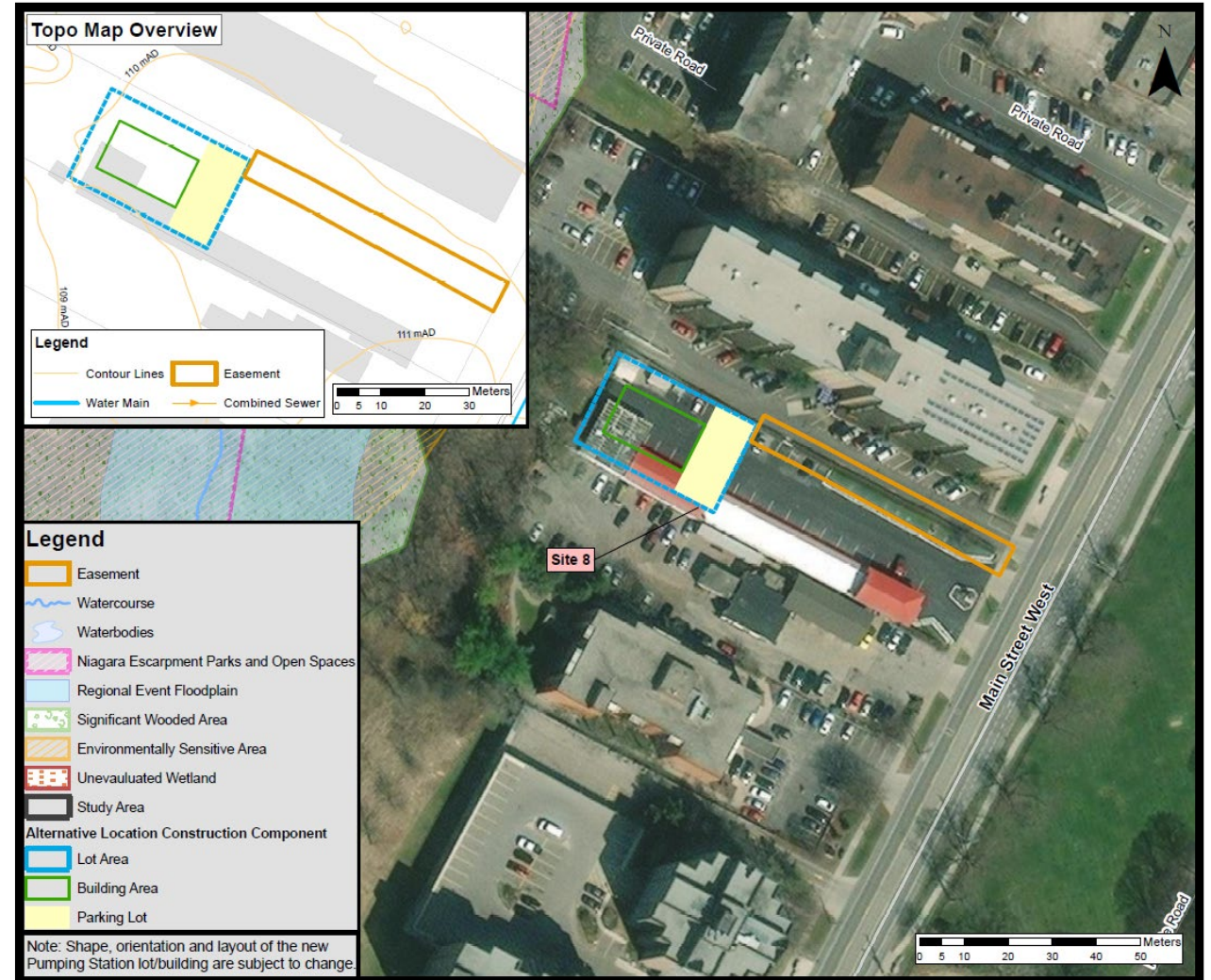
Benefits

- located adjacent to the existing HD17A WPS (or PD17)
- hydraulically sound option
- low potential for sociocultural impact
- low potential for environmental impact

Challenges

- City would need to acquire the property
- moderately cost-effective; however, land cost could be significantly higher if the entire property must be purchased, making it a more expensive and less preferable alternative

Fifth-Most Preferable Alternative – Site 8



SHORT-LISTED ALTERNATIVE SITE 9

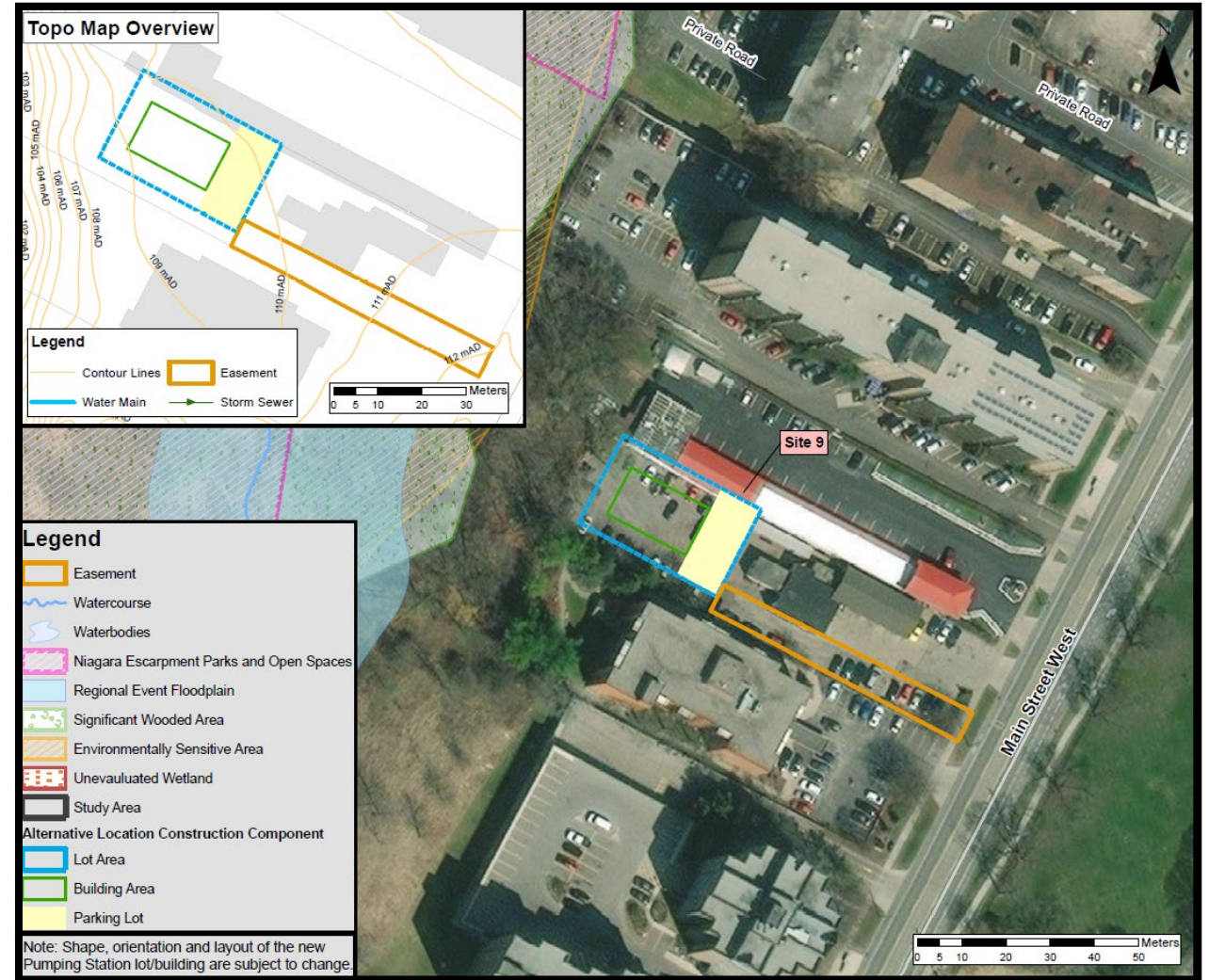
**Site 9 is located at 1872 Main Street West
(Site of Westdale Car Service)**

Benefits

- located adjacent to the existing HD17A WPS (or PD17)
- low potential for environmental impact
- hydraulically sound option
- low potential for sociocultural impacts

Challenges

- City would need to acquire the property
- some potential for sociocultural impacts (e.g., construction activities within undisturbed areas); however, these can be mitigated, although additional studies may be required
- moderately cost-effective; however, land cost could be significantly higher if the entire property must be purchased, making it a more expensive and less preferable alternative



SHORT-LISTED ALTERNATIVE SITE 4

Site 4 is located at 88 Ofield Road
(site of existing Residential land use)

Benefits

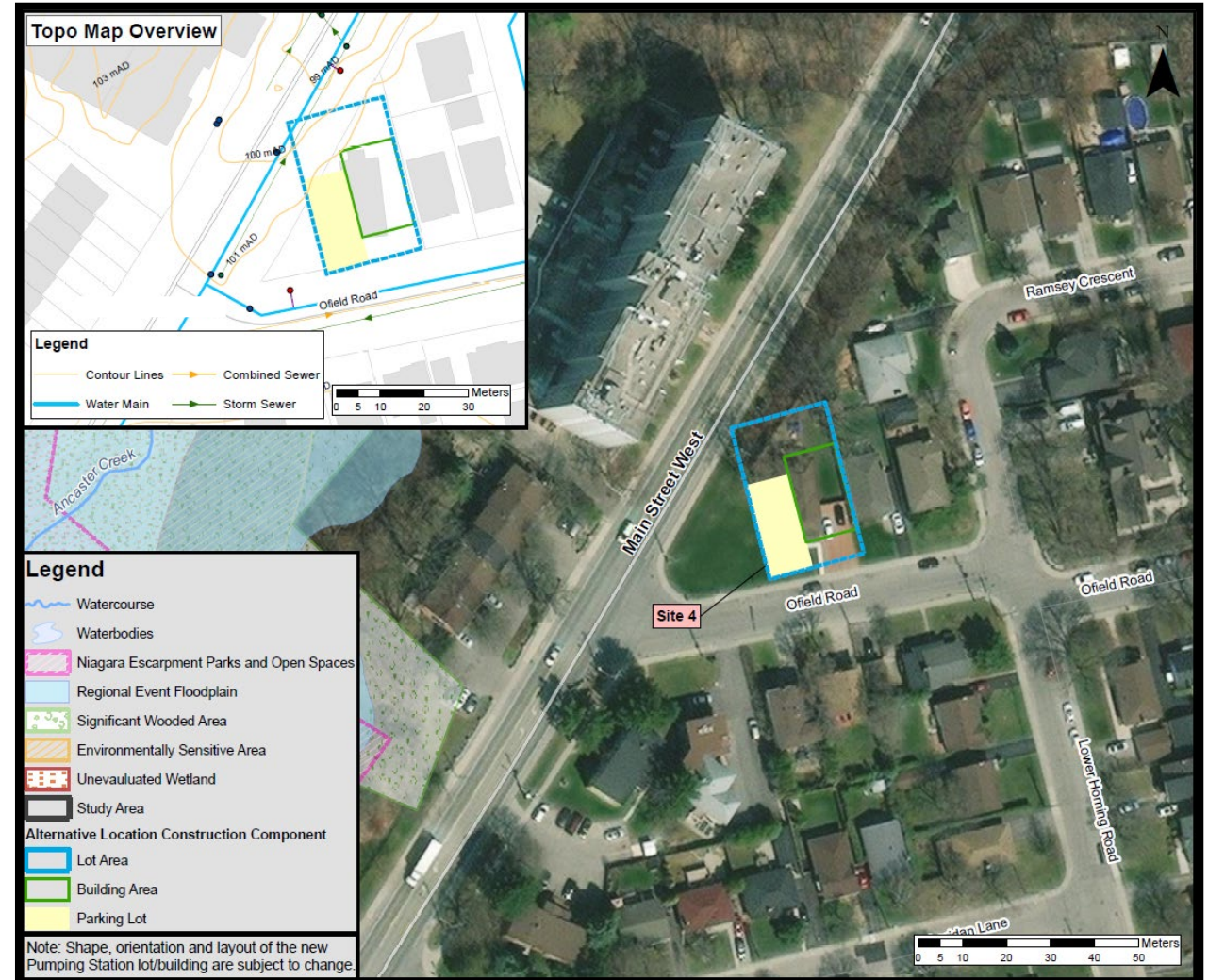
- low potential for environmental impact
- moderate hydraulically sound option
- moderately cost-effective
- located near the existing HD17A WPS (or PD17)

Challenges

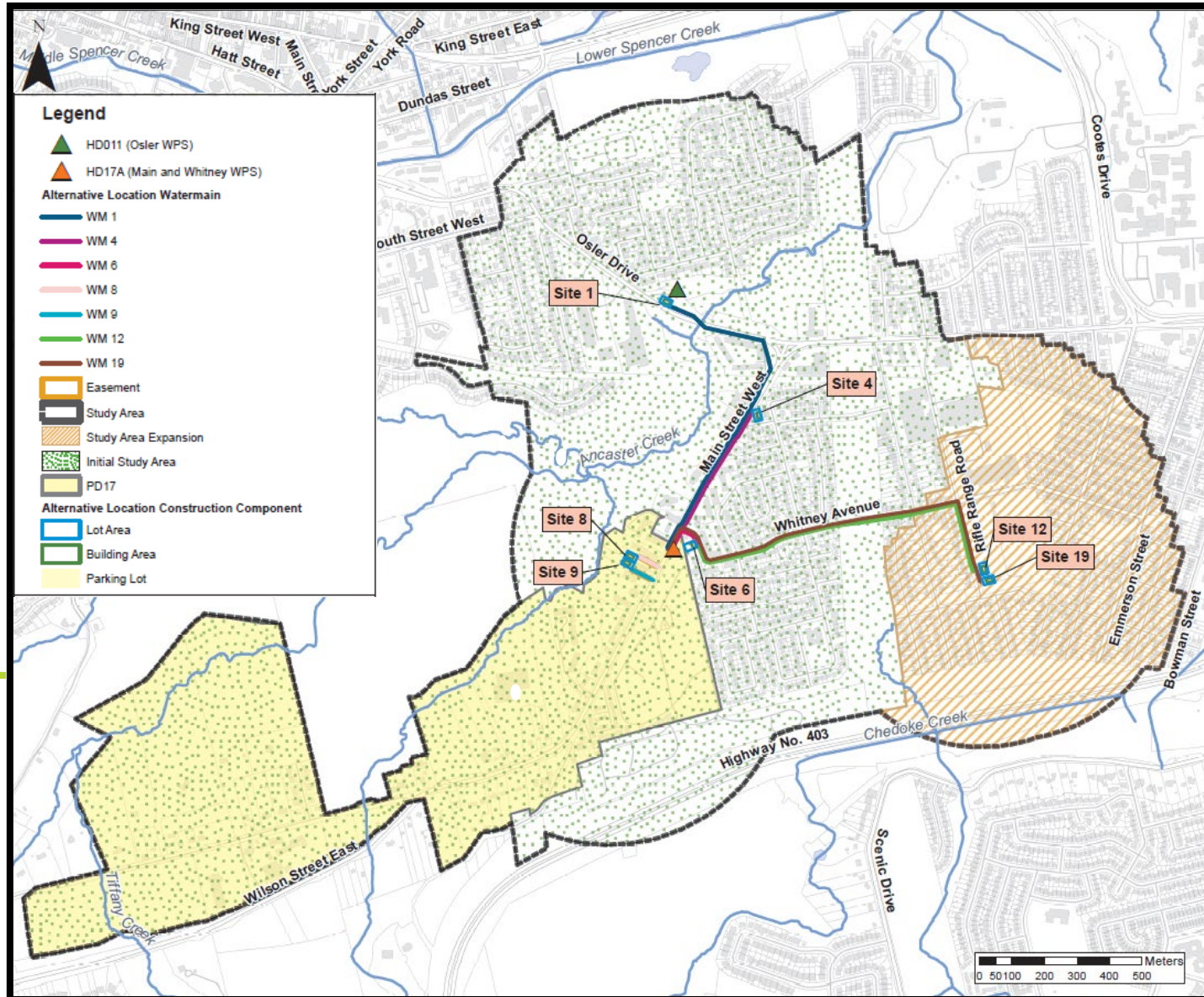
- Residential property
- City would need to acquire the property
- high potential for sociocultural impacts; Site 4 is a potential Built Heritage Resources site with potential cultural heritage value or interest; thus, the removal of the residence would have a direct, negative, and irreversible impact

Least Preferable Alternative – Site 4

(from a cultural heritage perspective and should be eliminated from further consideration in the selection of the preferred site or location)



CONCEPTUAL PLAN OF ALTERNATIVE SOLUTIONS



An overview of the conceptual plan for the 7 short-listed sites and its associated watermains are shown here.

The purpose of this evaluation was to develop a conceptual plan for each alternative site to assess hydraulic performance, watermain requirements and costs.

COMPARATIVE EVALUATION OF SHORT-LISTED ALTERNATIVE SITES



Hamilton

Criteria	Short-Listed Alternatives						
	SITE 1	SITE 4	SITE 6	SITE 8	SITE 9	SITE 12	SITE 19
	adjacent to and SW of 130 OSLER DRIVE (Adjacent to existing Osler WPS, HD011)	88 OFIELD ROAD	1845 MAIN STREET WEST	1870 MAIN STREET WEST	1872 MAIN STREET WEST	125 RIFLE RANGE ROAD	161 RIFLE RANGE ROAD
Natural Environments	little impact during construction	little to no potential impact	lowest potential impact	little to no impact	some potential impact (due to potential soil contamination)	little to no potential impact	little to no potential impact
Sociocultural	some potential impacts during construction	potential highest impacts (This residence is a Built Heritage Resources site)	some potential impacts (adjacent to a Cemetery - a Heritage Impact Assessment (HIA) is required)	little to no sociocultural impacts	little to no sociocultural impacts	some potential impacts (during construction, adjacent to a park - HIA is required, and within undisturbed area-Stage 2 archaeological assessment is required)	some potential impacts (during construction and adjacent to a park - HIA is required)
Technical	technically less attractive	technically moderate attractive	hydraulically sound option	hydraulically sound option	hydraulically sound option	technically less attractive	Technically less attractive
Cost	\$9.1M moderately cost-effective	\$9.4M moderately cost-effective	\$8.8M most cost-effective	\$9.2M moderately cost-effective* *However, potential high cost (e.g., \$11M, cost of purchasing entire property)	\$9.2M moderately cost-effective* *However, potential high cost (e.g., \$12 M, cost of purchasing entire property)	\$9.5M less cost-effective	\$9.7M less cost-effective
Ownership/Landuse	City - open space	private – residential	private – Commercial (parking lot)	private – commercial (inn)	private – commercial (car service)	private – institutional (open space)	private – residential / institutional
Property acquisition	no	yes	yes	yes	yes	yes	yes
Overall Ranking	2nd	7th	1st	5th	6th	3rd	4th
	second-most preferable	Least preferable	Most preferable	fifth-most preferable	sixth-most preferable	third-most preferable	fourth-most preferable

Site 6 is the most preferable and recommended alternative because it offers the most cost effective and technically sound option, while having the lowest potential for environmental impact comparative with the other alternative sites.

Preferable: Most Least



NEXT STEPS

- The City will compile the feedback received from this Public Information Centre to assist in confirming the preferred solutions
- A Project File Report will be prepared for filing and made available for a minimum 30-day public review period

We are Here

Public Information Centre No. 2

Review Feedback and Confirm the Preferred Solution(s)

Project File Report Council Meeting
Notice of Study Completion

EA Completion after 30-day Review and Comment Period

Proceed to Detailed Design and Construction

THANK YOU FOR YOUR PARTICIPATION

Your comments are important as they will be reviewed and considered as part of the study.

*We value your input in the decision-making process.
Click the link below to download and fill in a Comment Sheet*
www.hamilton.ca/mainwhitneystationea

Please submit the completed Comment Sheet by email or mail to the Project Team listed on this page.

The deadline to submit your comments is **May 19, 2023**.

Contact the Project Team if you have additional questions or input.

PROJECT TEAM

Shelley Kuan, P. Eng.

Project Manager
Arcadis IBI Group
300 - 2620 Bristol Circle
Oakville, Ontario L6H 6Z7
Phone: (905) 763-2322, Ext. 63600
Email: Shelley.Kuan@ibigroup.com

Margaret Parkhill, P. Eng.

Public Facilitator and Class EA Planner
Arcadis IBI Group
Email: Margaret.Parkhill@ibigroup.com

Udo Ehrenberg, P. Eng.

Senior Project Manager
City of Hamilton
100 King Street West, 9th Floor
Hamilton, Ontario L8P 1A2
Phone: (905) 546-2424, Ext. 2499
Email: Udo.Ehrenberg@hamilton.ca

Florentin Novac, M. Eng., P. Eng.

Project Manager
City of Hamilton
Email: Florentin.Novac@hamilton.ca