

Appendix B

Public Consultation

- **B.1 Public Correspondence**
- **B.2 Neighbourhood Drop-in and Public Information Centre No. 1**
- **B.3 Public Information Centre No. 2**

B.1 – Public Correspondence



April 27, 2012

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-0267
Email: teodor.kochmar@halton.ca

RESIDENT/HOMEOWNER

DEAR RESIDENT/HOMEOWNER:

RE: Notice of Study Completion – Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, Our File: PR-2581A

Halton Region has completed the Class Environmental Assessment (Class EA) Study for the required expansion of the existing Burloak Water Purification Plant, located in the Town of Oakville. The Class EA Study has been undertaken in accordance with the planning process set out in the Municipal Class Environmental Assessment document (October 2000, as amended 2007 & 2011) for Schedule C projects.

As part of the Class EA Study, three separate public meetings were held on April 19, April 28, and November 30, 2011. The first meeting was held exclusively for nearby homeowners and local area business owners to meet members of the Class EA team, learn more about the project, tour the existing plant, and provide feedback on the information presented. The last two meetings were public information centres held at separate stages of the Class EA Study to allow review agencies and members of the general public to learn more about the status of the project and obtain feedback on the information presented.

An Environmental Study Report, documenting the planning and decision making process followed during the Class EA Study, has been prepared. In accordance with the requirements of the Municipal Class EA process, the Environmental Study Report will be placed on the public record for a 30-day review period.

This letter is to notify you of the completion of this Class EA Study and advise the locations where the Environmental Study Report will be available for public review. The Environmental Study Report will be available for review starting May 2, 2012 until June 4, 2012. A copy of the Notice of Study Completion has been attached to this letter for your convenience.

If concerns arise during the prescribed Review Period that cannot be resolved through discussions with Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region. If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

The Regional Municipality of Halton



For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page.

Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in dark ink, appearing to read "Teodor Kochmar".

Teodor Kochmar, P.Eng. PMP
Project Manager, Water Design and Construction
Halton Region
Telephone: 905-825-6000 ext. 7637
Email: Teodor.kochmar@halton.ca

A handwritten signature in dark ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.
Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

cc: Gary Carr, Halton Regional Chair
Tom Adams, Regional Councillor & Chair of the Planning & Public Works Committee
Paul Sharman, Regional Councillor, City of Burlington, Ward 5
Patrick Moyle, CAO, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Robert Burton, Mayor, Town of Oakville
Allan Johnston, Regional Councillor, Town of Oakville, Ward 1

Ralph Robinson, Town Councillor Town of Oakville, Ward 1
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region

NOTICE OF STUDY COMPLETION

Municipal Class Environmental Assessment for Phase 2 Expansion of the Burloak Water Purification Plant, Town of Oakville

Background

In February 2011, Halton Region initiated a Class Environmental Assessment (Class EA) Study to identify the preferred treatment design concept to increase the capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

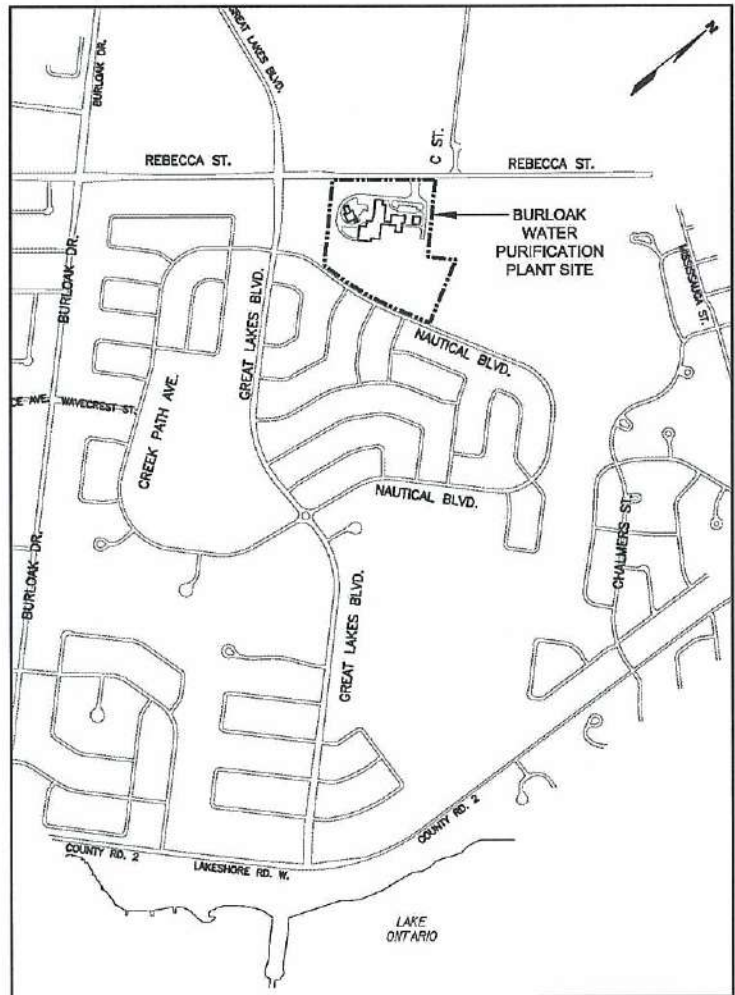
Problem Statement

The next expansion of the Burloak WPP from 55 ML/day to 165 ML/day is required to provide additional water supply capacity for projected population and employment growth identified in the Best Planning Estimates and corresponding water demand projections as set out in the Sustainable Halton Water and Wastewater Master Plan, recently updated by the Region in 2011. The expansion of the Burloak WPP also provides the opportunity to design the project to achieve the Region's municipal service delivery objectives and further develop how the site is integrated with its neighbours and surrounding community.

The Process

The Class EA Study has been completed according to the requirements of a Schedule C project of the Municipal Class Environmental Assessment document (Municipal Engineers Association, October 2000 as amended in 2007 & 2011). The Class EA Study included:

- Public and agency consultation;
- Evaluation of alternative treatment design concepts for the expansion;
- Assessment of technical, socio-cultural, natural environmental and economic environment;
- Assessment of the impacts of the proposed work; and,
- Identification of measures to mitigate such impacts, including potential impacts to the residential neighbourhood in the vicinity of the plant site.



The preferred treatment design concept for the expansion of the Burloak WPP involves membranes for particulate removal and pathogen removal, ozone for taste and odour control and pathogen control (during taste and odour season), and UV disinfection for pathogen control. Chlorine will be used for both zebra mussel control in the plant inlet and disinfection of the plant outlet into the distribution system. The plant residual flows will be treated by a combination of equalization and plate settlers clarification/thickening processes.

The preferred treatment design concept was identified to best optimize the plant's existing infrastructure, its operations and maintenance, as it replicates for the most part, the existing treatment processes. In addition, the preferred treatment design concept was found to be sustainable and economical.

Public Comments Invited

An Environmental Study Report documenting the planning and decision making process followed during the Class EA Study has been prepared. By this Notice, the Environmental Study Report is being placed on the public record and will be available for review from May 2, 2012 until June 4, 2012 at the following locations:

Clerk's Office Town of Milton 43 Brown Street Milton, Ontario Tel: 905-878-7211	Clerk's Department Town of Oakville 1225 Trafalgar Road Oakville, Ontario Tel: 905-845-6601	The Regional Municipality of Halton Citizen's Reference Library 1151 Bronte Road Oakville, Ontario Tel: 905-825-6000
Clerk's Office Town of Halton Hills 1 Halton Hills Drive Halton Hills (Georgetown), Ontario Tel: 905-873-2600	Clerk's Department City of Burlington 426 Brant Street Burlington, Ontario Tel: 905-335-7777	

Interested persons should provide written comments regarding the project within the prescribed review period to either of the following individuals:

Teodor Kochmar, P.Eng., PMP
Project Manager
Halton Region
Telephone: 905-825-6000 ext. 7637
Fax: 905-825-0267
Teodor.Kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.Koc@aecom.com

If concerns arise during the review period that cannot be resolved through discussions with the Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region. If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

Ex-CAC Member.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:07 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
Attachments: RPT-60114069_2861-170-00_Burloak WPP Expansion Class EA FINAL Notice of Study Completion 120426.pdf

Mr.

Halton Region, through their sub-consultants AECOM, has completed the Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville. The Class EA Study has been undertaken in accordance with the planning process set out in the Municipal Class Environmental Assessment document (October 2000, as amended 2007 & 2011) for Schedule C projects.

As part of the Class EA Study, three separate public meetings were held on April 19, April 28, and November 30, 2011. The first meeting was held exclusively for nearby homeowners and local area business owners to meet members of the Class EA team, learn more about the project, tour the existing plant, and provide feedback on the information presented. The last two meetings were public information centres held at separate stages of the Class EA Study to allow review agencies and members of the general public to learn more about the status of the project and obtain feedback on the information presented.

An Environmental Study Report, documenting the planning and decision making process followed during the Class EA Study, has been prepared. In accordance with the requirements of the Municipal Class EA process, the Environmental Study Report will be placed on the public record for a 30-day review period.

At this time, we are enclosing a copy of the Notice of Study Completion to advise you of the locations where the Environmental Study Report will be available for public review. The Environmental Study Report will be available for review starting May 2, 2012 until June 4, 2012. If concerns arise during the prescribed Review Period that cannot be resolved through discussions with Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region (contact information found in attached Notice of Completion). If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

If you have any questions or comments, please do not hesitate to contact the undersigned.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

www.aecom.com



Please consider the environment before printing my e-mail.

NOTICE OF STUDY COMMENCEMENT MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY

Burloak Water Purification Plant Phase 2, Town of Oakville

Background

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase the capacity of the Burloak Water Purification Plant (WPP). A review of the Region's Water and Wastewater Servicing Master Plan, completed in 2004, identified the need for the new Burloak WPP to meet the demands of future development.

Problem Statement

The 2004 Master Plan Review recommended that the Burloak WPP be constructed in phases to satisfy the water supply needs for the projected population. The Burloak WPP has a current capacity of 55,000 m³/day. An update to the Master Plan completed in 2008 identified that the next phase of expansion of the Burloak WPP is to a treatment capacity of 165,000 m³/day.

The Process

The Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007). The purpose of the Class EA study is to identify the preferred solution for increasing water treatment capacity at the plant. The study will include:

- public and agency consultation
- evaluation of alternative design concepts for the expansion
- assessment of the impacts of the proposed work
- identification of measures to mitigate potential impacts
- consideration of technical, socio-cultural, natural environmental and economic issues.

Public Information Centers

We will consult with the public and review agencies throughout the Class EA process. Two Public Information Centres (PICs) will be held in association with this study. We will publish invitation notices to the PICs in local newspapers, on the Region's website www.halton.ca/waterwastewaterClassEas and distribute to all individuals who express an interest in this project.

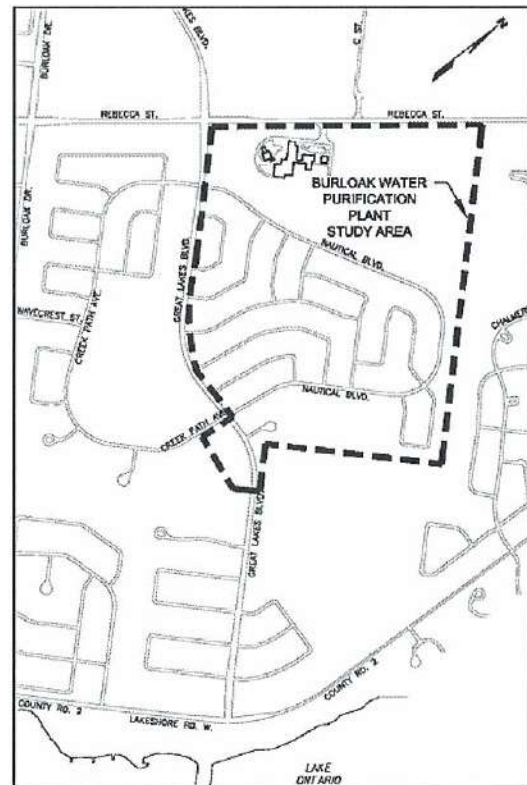
Contact Us

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

Kelly Goorts
Regional Municipality of Halton
1075 North Service Road West
Oakville, Ontario L6M 2G2
Telephone: 905-825-6000 ext. 3309
Fax: 905-825-8822
Kelly.goorts@halton.ca

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

**The map below covers the
approximate limits of the study area**



EX-CAE Member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 1:55 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
Attachments: RPT-60114069_2861-170-00_Burloak WPP Expansion Class EA FINAL Notice of Study Completion 120426.pdf

Mr

Halton Region, through their sub-consultants AECOM, has completed the Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville. The Class EA Study has been undertaken in accordance with the planning process set out in the Municipal Class Environmental Assessment document (October 2000, as amended 2007 & 2011) for Schedule C projects.

As part of the Class EA Study, three separate public meetings were held on April 19, April 28, and November 30, 2011. The first meeting was held exclusively for nearby homeowners and local area business owners to meet members of the Class EA team, learn more about the project, tour the existing plant, and provide feedback on the information presented. The last two meetings were public information centres held at separate stages of the Class EA Study to allow review agencies and members of the general public to learn more about the status of the project and obtain feedback on the information presented.

An Environmental Study Report, documenting the planning and decision making process followed during the Class EA Study, has been prepared. In accordance with the requirements of the Municipal Class EA process, the Environmental Study Report will be placed on the public record for a 30-day review period.

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Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

If you have any questions or comments, please do not hesitate to contact the undersigned.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

www.aecom.com



Please consider the environment before printing my e-mail.

EX - CAC Member.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:08 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

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Ex - CAC Member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:09 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
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Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

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EX-CAC Member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:10 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
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Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

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EX-OYA Monitor

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:11 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
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Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

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Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:12 PM
To:
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Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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Mississauga, Ontario L5R 3E9

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Please consider the environment before printing my e-mail.

EX-CAE Member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 26, 2012 2:13 PM
To:
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Completion
Attachments: RPT-60114069_2861-170-00_Burloak WPP Expansion Class EA FINAL Notice of Study Completion 120426.pdf

Mr.

Halton Region, through their sub-consultants AECOM, has completed the Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville. The Class EA Study has been undertaken in accordance with the planning process set out in the Municipal Class Environmental Assessment document (October 2000, as amended 2007 & 2011) for Schedule C projects.

As part of the Class EA Study, three separate public meetings were held on April 19, April 28, and November 30, 2011. The first meeting was held exclusively for nearby homeowners and local area business owners to meet members of the Class EA team, learn more about the project, tour the existing plant, and provide feedback on the information presented. The last two meetings were public information centres held at separate stages of the Class EA Study to allow review agencies and members of the general public to learn more about the status of the project and obtain feedback on the information presented.

An Environmental Study Report, documenting the planning and decision making process followed during the Class EA Study, has been prepared. In accordance with the requirements of the Municipal Class EA process, the Environmental Study Report will be placed on the public record for a 30-day review period.

At this time, we are enclosing a copy of the Notice of Study Completion to advise you of the locations where the Environmental Study Report will be available for public review. The Environmental Study Report will be available for review starting May 2, 2012 until June 4, 2012. If concerns arise during the prescribed Review Period that cannot be resolved through discussions with Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region (contact information found in attached Notice of Completion). If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

If you have any questions or comments, please do not hesitate to contact the undersigned.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A

Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0181

www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Koc, Oya
Sent: Monday, January 23, 2012 3:53 PM
To: Rodriguez, Sandra
Subject: FW: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

Oya

From: Kochmar, Teodor [<mailto:Teodor.Kochmar@halton.ca>]
Sent: January 23, 2012 3:52 PM
To: Koc, Oya
Subject: Fw: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

Thanks and regards,

Teo Kochmar

From: www.halton.ca [<mailto:www.halton.ca>]
Sent: Friday, January 20, 2012 09:40 PM
To: Kochmar, Teodor
Subject: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment



The Regional
Municipality of Halton

Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

E-mail:

Question or Comment

Hello, I am a resident just south of the Burloak Water Purification Plant. I have had an opportunity to review the proposed plan via the website. I have concerns regarding the layout and landscaping designs. As it looks now, it is not as intrusive to the community as it will be. Developing towards the south of the lot will be very close to the existing houses. Can it not be built East/West for expansion? Also, the town had planted many trees in a nice row, three trees deep. However, they felt short of maintaining the trees and grass. This summer, many trees died and the town only mowed the lawn 2-3 times!! It looked like a field of hay about 3 feet tall. We have concerns that the landscaping will not be maintained or designed in a manner that will block out the view of the plant. Will there be rows of trees planted, as the oak trees were? Also, will it be maintained? Thank you very much, Stacy Oresti

This message, including any attachments, is privileged and intended only for

the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you

Rodriguez, Sandra

From: Kochmar, Teodor [Teodor.Kochmar@halton.ca]
Sent: Monday, December 05, 2011 9:49 AM
To: Weston, Jacqueline; Goorts, Kelly; Charlton, Larry; Devine, Gord; Koc, Oya; Sahely, Brian; Rodriguez, Sandra
Subject: FW: PIC Burloak WPP

Team,

Please see below - a comment from one of the residents, following PIC #2.

Regards,

Teodor Kochmar, P.Eng., PMP
Halton Region
(905) 825-6000 x 7637

From:
Sent: Thursday, December 01, 2011 3:38 PM
To: Kochmar, Teodor
Subject: RE: PIC Burloak WPP

Teo,
Thank you for the tour and presentation.

You must be doing something right:

- a) I am not a water expert, but everything I saw seemed to make sense and I was left with the impression that my water supply was in good hands.
- b) The fact that you have homes so close by, seems to suggest that the facility is well run.

Thanks again.

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you

Rodriguez, Sandra

From: www.halton.ca
Sent: Monday, December 19, 2011 11:08 AM
To: Kochmar, Teodor
Subject: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment



Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

E-mail:

Question or Comment

I have a question as to the land use and why the expansion is to be located so close to Nautical when there is so much more land to the east and west. Also, there is a question as to the maturity of the trees along the outer perimeter. Having mature trees would satisfy the visibility aspect and would provide immediate coverage from a housing viewpoint in my lifetime rather than my childrens. With respect to the type, I would like to see a mixture of spruce or pine along with maples and oaks. The spruce and pine would provide all year round coverage instead of what is currently in place.

Rodriguez, Sandra

From: Kochmar, Teodor [Teodor.Kochmar@halton.ca]
Sent: Wednesday, January 04, 2012 11:02 AM
To:
Cc: Weston, Jacqueline
Subject: RE: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

Good morning,

This is to respond to your question/comment submitted on December 19, 2011 regarding the Class Environmental Assessment Study for the Burloak WPP Expansion.

Working with our neighbours is a very important part of any expansion process, that's why I would first like to thank you for your feedback. You inquired about why the expansion was expected to be close to Nautical Blvd. when there is land to the east and west. The location of the expanded facilities (both above and underground) was determined based on evaluation criteria including operational needs of the plant, how the new infrastructure can best tie into the existing facilities, and aesthetics. The evaluation criteria and the layout presented at the Public Information Centre in November is for the plant expansion to produce up to 165 MegaLitres/Day and it is expected that future expansions will occur to the east and west side of the property.

While this design represents the most up to date information, it may change once we have completed the detailed design review.

You also made some suggestions regarding tree planting. We are currently evaluating landscaping options and have included your comments regarding mature trees and tree types in our evaluation.

Thank you for your comments and if you have any further questions or concerns, please either call or e-mail me.

Best regards,

Teodor Kochmar, P.Eng., PMP
Project Manager - Water Design & Construction
Public Works Department
Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7637
Toll Free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:13 AM
To: Rodriguez, Sandra
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Public Information Centre No.2

FYI – See Below.

Tammy Wamboldt
Senior Administrative Assistant
tammy.wamboldt@aecom.com

AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
Direct: 905-712-7039
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

From:
Sent: Wednesday, November 16, 2011 9:06 AM
To: Wamboldt, Tammy
Cc: Koc, Oya
Subject: Re: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Public Information Centre No.2

Sorry but as I mentioned previously I will not be in attendance

Ralph

From: Wamboldt, Tammy [<mailto:Tammy.Wamboldt@aecom.com>]
Sent: Wednesday, November 16, 2011 09:01 AM
To:
Cc: Koc, Oya <Oya.Koc@aecom.com>
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Public Information Centre No.2

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

Date: Wednesday, November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant

3380 Rebecca Street (parking available on site)

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.



November 16, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Tel: 905-825-6000, ext. 7637
Fax: 905-825-0267
Email: teodor.kochmar@halton.ca

Dear Resident/Property Owner:

RE: Notice of Public Information Centre – Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, Our File: PR-2581A

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

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If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

Teodor Kochmar, P.Eng. PMP
Project Manager, Water Design and Construction
Regional Municipality of Halton
Telephone: 905-825-6000 ext. 7637
Email: Teodor.kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

cc: Gary Carr, Halton Regional Chair
Tom Adams, Regional Councillor & Chair of the Planning & Public Works Committee
Paul Sharman, Regional Councillor, City of Burlington, Ward 5
Patrick Moyle, CAO, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Robert Burton, Mayor, Town of Oakville
Allan Johnston, Regional Councillor, Town of Oakville, Ward 1

Ralph Robinson, Town Councillor Town of Oakville, Ward 1
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region

The Regional Municipality of Halton

NOTICE OF PUBLIC INFORMATION CENTRE #2

Municipal Class Environmental Assessment for Phase 2 Expansion of the Burloak Water Purification Plant, Town of Oakville

The Study

Halton Region is undertaking a Class Environmental Assessment (Class EA) Study to increase capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

The Class EA Study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007).

The purpose of the Class EA study is:

1. To identify the preferred water treatment solution for increasing the plant capacity; and
2. To recommend the preferred treatment design concept for the expansion.

The Class EA study includes:

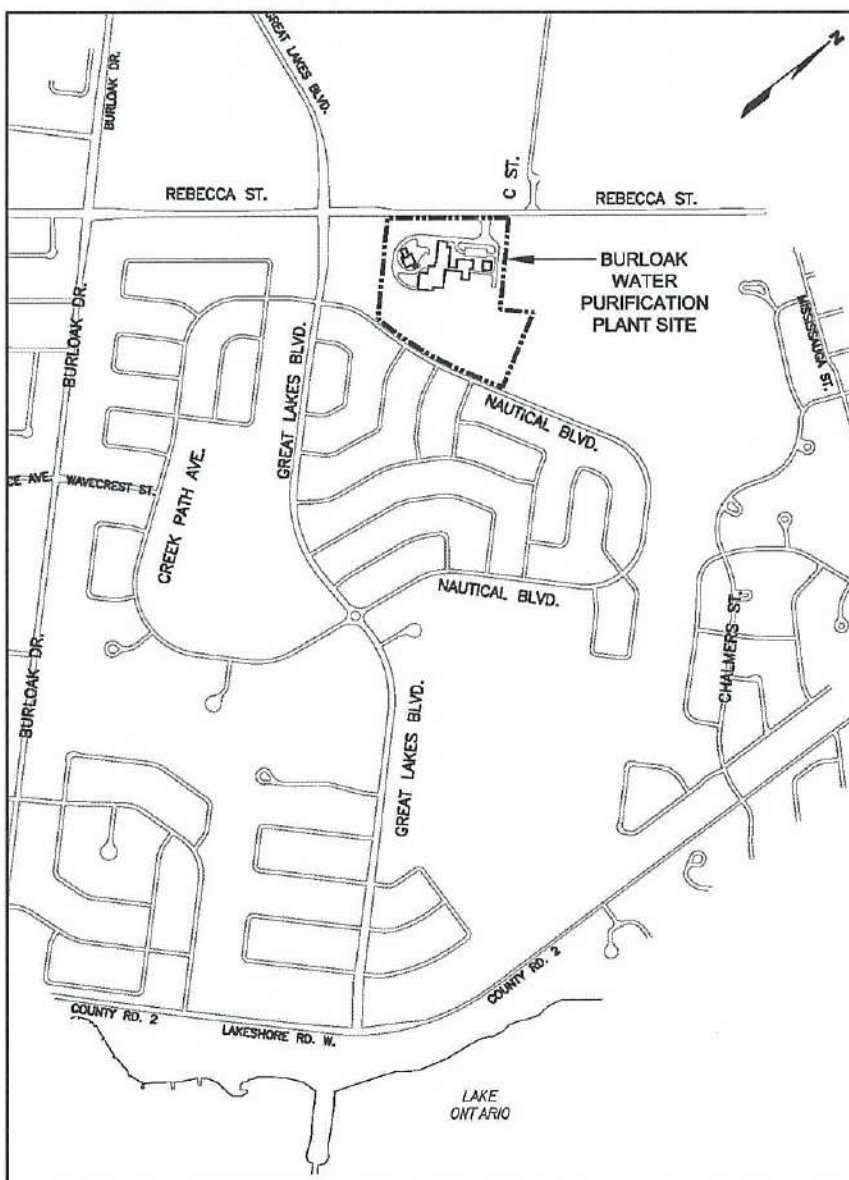
- Public and agency consultation;
- Evaluation of alternative treatment design concepts for the expansion;
- Assessment of the impacts of the proposed work; and
- Identification of measures to mitigate impacts. Technical, socio-cultural, natural environmental and economic issues will be considered during the assessment.

The Communication and Consultation Process

As part of the study, the first Public Information Centre (PIC) was held on April 28, 2011 to introduce the project, the preliminary treatment alternatives under consideration and the evaluation criteria to be used for the selection of the preferred treatment design concept for the expansion.

A second PIC is scheduled for:

Date: November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street
(Parking available on site)



The purpose of the second PIC is to present the results of the evaluation process, introduce the preliminary preferred treatment design concept for the expansion, and the next steps in the study. You are encouraged to attend the PIC and provide comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended treatment design concept for the plant expansion as well as the mitigation measures. Staff members from Halton Region and the consultant's team will be available to provide details on the project and discuss your comments.

If you are unable to attend, we would still like to hear from you. Please contact either of the project team members listed below if you have any questions or comments, wish to obtain more information on the project, or would like to be included on the project contact list:

Teodor Kochmar, P.Eng. PMP
Project Manager
Halton Region
1151 Bronte Road
Oakville, Ontario L6M 3L1
Telephone: 905-825-6000 ext. 7637
Fax: 905-825-8822
Teodor.kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

With the exception of personal information, all comments will become part of the public record. Additional information related to the study and consultation process may be obtained through the study website: www.halton.ca/EAs.

This Notice first issued on November 16, 2011.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:12 AM
To:
Cc: Koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Mr.

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

Date: Wednesday, November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:11 AM
To:
Cc: koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Mr.

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:08 AM
To:
Cc: Koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



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Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:08 AM
To:
Cc: Koc, Oya
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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:05 AM
To:
Cc: Koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Mr.

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:04 AM
To:
Cc: Koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Ms

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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

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Mississauga, ON L5R 3E9
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Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:02 AM
To:
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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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Mississauga, ON L5R 3E9
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www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

EX-CAE Member

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 8:59 AM
To: .
Cc: Koc, Oya
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Mr

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

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Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

Ex-CAC Member

From: Wamboldt, Tammy
Sent: Wednesday, November 16, 2011 9:01 AM
To:
Cc: Koc, Oya
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study – Notice of Public Information Centre No.2

Mr.

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) Study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

Date: Wednesday, November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

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Mississauga, ON L5R 3E9
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www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Koc, Oya
Sent: Tuesday, October 11, 2011 9:02 PM
To: Rodriguez, Sandra
Subject: FW: Burloak water purification plant fall meeting

Oya

From: Goorts, Kelly [<mailto:Kelly.Goorts@halton.ca>]
Sent: October 11, 2011 2:52 PM
To:
Cc: Kochmar, Theodor; Koc, Oya
Subject: RE: Burloak water purification plant fall meeting

Hi

The project team is working hard on summarizing all the work they have completed since the PIC held this Spring. The plan is to still hold an update meeting at the plant this Fall, and the exact date is still being confirmed but it is looking to be sometime in November.

I have ensured you will be on the mailing list so you will be informed of the meeting so we can share the information with you.

Thanks for following up.

Kelly

Kelly Goorts, P.Eng. PMP
Project Manager, Water Design and Construction
Regional Municipality of Halton
Tel: 905-825-6000 ext. 3309

From:
Sent: Monday, October 10, 2011 2:43 AM
To: Goorts, Kelly
Subject: Burloak water purification plant fall meeting

Hi Kelly,

I'm inquiring about the meeting that was to be held this fall as a follow up to the spring meeting in April. I believe the meeting was to establish in more detail the plans for the water purification plant at the Burloak site.

Please follow up with a schedule for the meeting or the progress of the plant expansion details.

Thanks,

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you

Rodriguez, Sandra

From: Kochmar, Teodor [Teodor.Kochmar@halton.ca]
Sent: Thursday, June 16, 2011 4:43 PM
To: Goorts, Kelly
Cc: Charlton, Larry; Koc, Oya; Rodriguez, Sandra; Burnett, Heather
Subject: RE: Comment from Public - Burloak

Hi group - just to close the loop (or partially close the loop) on this.

I called [redacted] who lives [redacted] he mentioned that his umbrellas and trampoline get blown away - he's bought and planted some trees to mitigate the wind.

I said we have this now on our list and will take this under consideration for the new design. And that we are also working on the dead trees/landscaping issues.

Thanks,

Teodor Kochmar, P.Eng.
Halton Region
(905) 825-6000 x 7637

From: Goorts, Kelly
Sent: Thursday, June 09, 2011 2:59 PM
To: Kochmar, Teodor
Cc: Charlton, Larry; Koc, Oya; 'Rodriguez, Sandra'; Burnett, Heather
Subject: Comment from Public - Burloak

Teo,

I received a call from [redacted] last night (Wednesday June 8, 2011 - 7pm) in regards to the Burloak WPP. [redacted] and has some concerns he would like to ensure get addressed.

1) Would like to ensure the new roof design looks at the wave portion, as he feels this creates a wind tunnel by his place which is not appreciated.

2) Look at the landscaping around the "ring" road - needs to be done right away as the trees are dying plus the grass needs to be cut.

Contact info for Darren is - cell: 416-433-7074.

I am looking into the landscaping items as part of phase I as well so I will update you as soon as I know.

If you would like to give him a call back when you get the chance that would be great.

Thanks,

Kelly

Rodriguez, Sandra

From: Goorts, Kelly [Kelly.Goorts@halton.ca]
Sent: Monday, May 16, 2011 11:16 AM
To: Weston, Jacqueline; Burnett, Heather; Rodriguez, Sandra; Koc, Oya; Fraser MacDonald, Nichole
Subject: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment
Follow Up Flag: Follow up
Flag Status: Flagged
Categories: Red Category

Hello Everyone,

Please find information we just received, too bad I am not sure who it was from.

Thanks,

Kelly

Kelly Goorts, P.Eng.
Project Manager, Water Design and Construction
Regional Municipality of Halton
Tel: 905-825-6000 ext. 3309

From: www.halton.ca [mailto:www.halton.ca]
Sent: Monday, May 16, 2011 10:58 AM
To: Goorts, Kelly
Subject: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment



Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

E-mail:

Question or Comment

Better landscaping while keeping the project scale to a minimal size will be factors that I would like to see as this project moves forward. I would also like to see the ring road made from more natural looking materials other than pavement(eg.gravel) to maintain the natural appearance when looking at the building. It would be nice to see the building design blend in with the environment when choosing exterior stonework colour. Landscaping should be chosen that would be all year round instead of seasonal vegetation. Proper landscaping maintenance will also need to be performed on a regular basis.

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the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



March 31, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-0267

Name
Address
Address

Dear XXX:

You may be aware that the Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (EA) study. As part of the Class EA approval process Halton Region will be hosting a public information centre on April 28, 2011 to allow you to learn more about the project and give us your feedback on the proposed water purification technology options, as well as letting us know what design concepts are important to you.

Date: Thursday, April 28, 2011
Time: 7:00 – 9:00 pm
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 and 8:00 pm

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Goorts".

Kelly Goorts, P.Eng.

Project Manager, Water Design and Construction
Extension: 3309
Email: kelly.goorts@halton.ca

C: Gary Carr, Halton Regional Chair
Rick Goldring, Mayor, City of Burlington
Robert Burton, Mayor, Town of Oakville
Tom Adams, Regional Councillor and Chair, Planning & Public Works Committee

A handwritten signature in black ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.

Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

The Regional Municipality of Halton



Paul Sharman, Regional Councillor, Ward 5, City of Burlington
Alan Johnston, Regional Councillor, Ward 1, Town of Oakville
Ralph Robinson, Town Councillor, Ward 1, Town of Oakville
Patrick Moyle, CAO, Halton Region
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region
Chris Mills, P.Eng., Director, Engineering Services, Town of Halton Hills
Tom Eichenbaum, P. Eng., Director of Engineering Services, City of Burlington
Daniel Cozzi, P. Eng., Director, Engineering Services, Town of Oakville
Access Halton, Halton Region

The Regional Municipality of Halton

HEAD OFFICE 1151 Bronte Road, Oakville, Ontario L6M 3L1 • Tel: 905-825-6000 • Toll free: 1-866-442-5866 • TTY: 905-827-9833 • www.halton.ca

Rodriguez, Sandra

FX-CAC member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:42 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr.

You may be aware that the Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (EA) study. As part of the Class EA approval process, Halton Region will be hosting a public information centre on April 28, 2011, to allow you to learn more about the project and give us your feedback on the proposed water purification technology options, as well as letting us know what design concepts are important to you.

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Sincerely,

Oya Koc
Project Manager
oya.koc@aeacom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

From: System Administrator
To:
Sent: Thursday, April 14, 2011 11:42 AM
Subject: Undeliverable: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Public Information Centre No. 1

Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental
Assessment Study - Notice of Public Information Centre No. 1
Sent: 4/14/2011 11:42 AM

14/2011 11:43 AM
The e-mail account does not exist at the organization this message was sent to.
mail address, or contact the recipient directly to find out the correct address.
<town.oakville.on.ca #5.1.1 smtp;550 5.1.1 RESOLVER.ADR.RecipNotFound; not found>

Rodriguez, Sandra

EX-CAE member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:40 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Ms.

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Time: 7:00 – 9:00 p.m.
Location: Burloak Water Purification Plant
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Facility tours at 7:30 – 8:00 p.m.

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact the undersigned if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc

AECOM

5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



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Rodriguez, Sandra

EX - CAC member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:41 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr.

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Time: 7:00 – 9:00 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 – 8:00 p.m.

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If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact the undersigned if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

Ex-CAC Member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:39 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr

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Time: 7:00 – 9:00 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 – 8:00 p.m.

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact the undersigned if you have any questions or comments related to the study.

Sincerely,

Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



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Ex-CAC Member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:38 AM
To:
Subject: FW: Burloak water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr.

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Facility tours at 7:30 – 8:00 p.m.

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Sincerely,

Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc
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Mississauga, ON L5R 3E9
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

EX-CAC member

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:37 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr

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Sincerely,

Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Needs to be emailed
No more communication
needed

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Mississauga, ON L5R 3E9
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Rodriguez, Sandra

EX-CAC Member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:37 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
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Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

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T 905.501.0641 F 905.501.0181
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Please consider the environment before printing my e-mail.

Rodriguez, Sandra

EX-CAC member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:36 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study
- Notice of Public Information Centre No. 1

Mr.

You may be aware that the Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (EA) study. As part of the Class EA approval process, Halton Region will be hosting a public information centre on April 28, 2011, to allow you to learn more about the project and give us your feedback on the proposed water purification technology options, as well as letting us know what design concepts are important to you.

Date: Thursday, April 28, 2011
Time: 7:00 – 9:00 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 – 8:00 p.m.

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

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Oya Koc
Project Manager
oya.koc@aecom.com
Direct: 905-712-6998

Email sent by Tammy Wamboldt on behalf of Oya Koc
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T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

EX-CAC Member

From: Wamboldt, Tammy
Sent: Thursday, April 14, 2011 11:35 AM
To:
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Public Information Centre No. 1

Mr

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Project Manager
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Direct: 905-712-6998

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AECOM
5600 Cancross Court, Suite A
Mississauga, ON, Canada L5R 3E9
www.aecom.com

905.501.0641 tel
905.501.0181 fax

February 1, 2011

Contact Name
Contact Title
Company Name
Company Address
Company Address

Dear Contact Name:

Project No: 060114069

**Regarding: Municipal Class Environmental Assessment Study
Burloak Water Purification Plant Expansion (Phase 2)
Notice of Study Commencement**

Halton Region, through their sub-consultants AECOM, has initiated a Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville.

The Class EA Study for this project will be undertaken in accordance with the requirements for Schedule 'C' projects under the *Municipal Class Environmental Assessment* document. The Class EA process will provide members of the public and interested review agencies with opportunities for input at key stages of the project. Two public consultation meetings will be scheduled through the course of this study. A formal invitation letter to these meetings will be forwarded to you ahead of time of these meetings.

At this time, we are enclosing a copy of the Notice of Study Commencement to advise you and/or your agency that the Class EA study for this project has been initiated. If you have any questions or comments or would like additional information on the project, please do not hesitate to contact the undersigned.

Sincerely,
AECOM Canada Ltd.

Oya Koc, P.Eng.
Project Manager
Oya.koc@aecom.com

SR:tw
Encl.

NOTICE OF STUDY COMMENCEMENT MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY

Burloak Water Purification Plant Phase 2, Town of Oakville

Background

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase the capacity of the Burloak Water Purification Plant (WPP). A review of the Region's Water and Wastewater Servicing Master Plan, completed in 2004, identified the need for the new Burloak WPP to meet the demands of future development.

Problem Statement

The 2004 Master Plan Review recommended that the Burloak WPP be constructed in phases to satisfy the water supply needs for the projected population. The Burloak WPP has a current capacity of 55,000 m³/day. An update to the Master Plan completed in 2008 identified that the next phase of expansion of the Burloak WPP is to a treatment capacity of 165,000 m³/day.

The Process

The Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007). The purpose of the Class EA study is to identify the preferred solution for increasing water treatment capacity at the plant. The study will include:

- public and agency consultation
- evaluation of alternative design concepts for the expansion
- assessment of the impacts of the proposed work
- identification of measures to mitigate potential impacts
- consideration of technical, socio-cultural, natural environmental and economic issues.

Public Information Centers

We will consult with the public and review agencies throughout the Class EA process. Two Public Information Centres (PICs) will be held in association with this study. We will publish invitation notices to the PICs in local newspapers, on the Region's website www.halton.ca/waterwastewaterClassEas and distribute to all individuals who express an interest in this project.

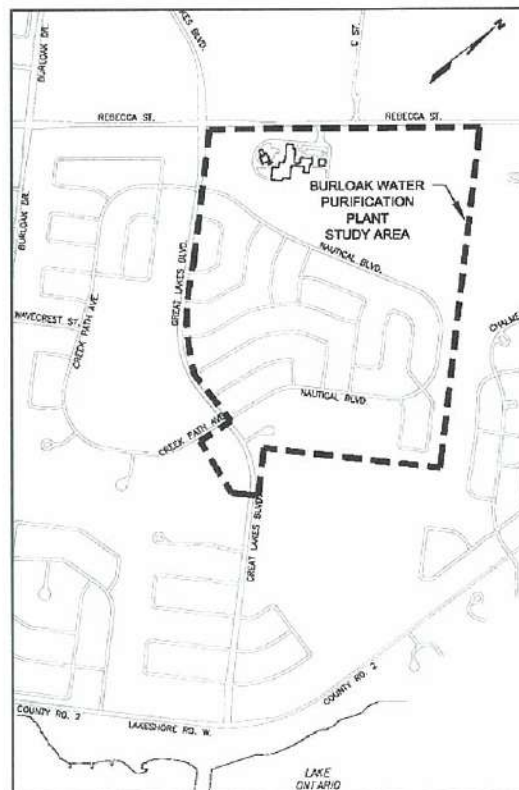
Contact Us

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

Kelly Goorts
Regional Municipality of Halton
1075 North Service Road West
Oakville, Ontario L6M 2G2
Telephone: 905-825-6000 ext. 3309
Fax: 905-825-8822
Kelly.goorts@halton.ca

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

**The map below covers the
approximate limits of the study area**



Rodriguez, Sandra

EX-CAC Member

From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 11:12 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
Attachments: RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf

Mr.

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Sincerely,

Tammy Wamboldt on behalf of Oya Koc
Senior Administrative Assistant
tammy.wamboldt@aecom.com

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5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
Direct: 905-712-7039
T 905.501.0641 F 905.501.0181
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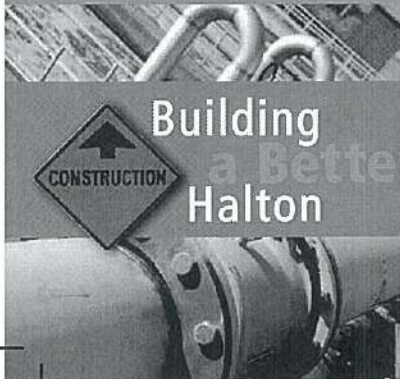
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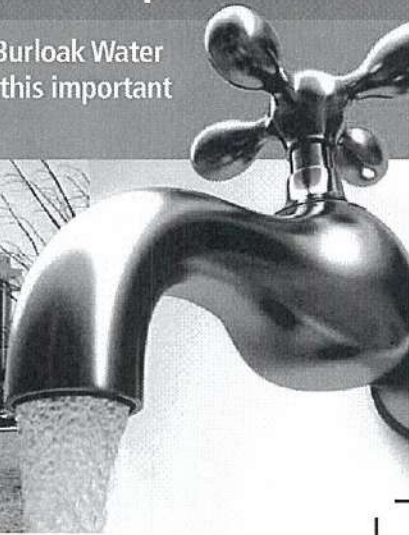
You're Invited!

Burloak Water Purification Plant Expansion

An opportunity for neighbours to meet members of the Burloak Water Purification Plant Expansion team and learn more about this important development for our community.



Building
a Better
Halton



You're Invited!

Neighbourhood Drop-in

Open house and facility tour
for nearby homeowners and
area businesses.

Tuesday, April 19 2011

7:00 p.m. - 9:00 p.m.

Tour at 7:30 p.m.

Location:

**Burloak Water Purification Plant
3380 Rebecca Street, Oakville ON**

Please RSVP:

Lisa Snowball

905-825-6000 ext. 7627

lisa.snowball@halton.ca

Halton Region

Dial 311 or 905-825-6000

Toll free 1-866-4HALTON (1-866-442-5866)

TTY 905-827-9833

www.halton.ca

Visit www.halton.ca/EAs for more project information



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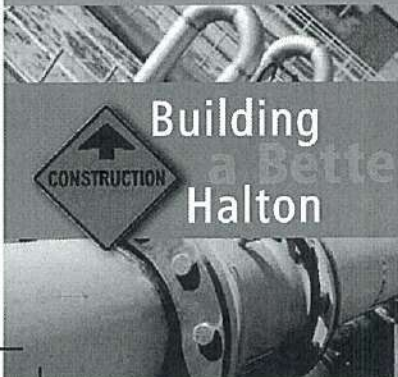
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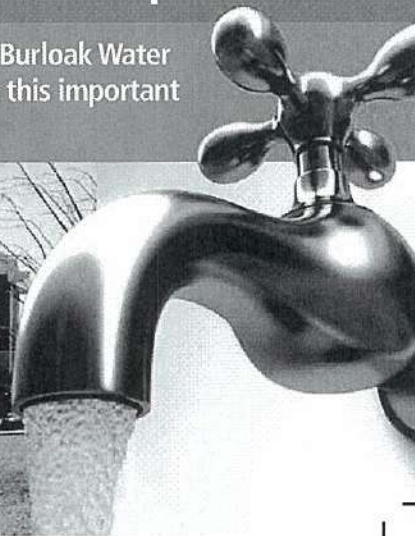
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Building
a Better
Halton



Rodriguez, Sandra

EX-CAC Member

From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 11:02 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
Attachments: RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf

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Sincerely,

Tammy Wamboldt on behalf of Oya Koc
Senior Administrative Assistant
tammy.wamboldt@aecom.com

AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
Direct: 905-712-7039
T 905.501.0641 F 905.501.0181
www.aecom.com



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Rodriguez, Sandra

EX - CAC Member

From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 11:00 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
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From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 10:58 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
Attachments: RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf

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To:
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tammy.wamboldt@aecom.com

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From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 10:56 AM
To:
Subject: FW: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
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To:
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Rodriguez, Sandra

From: Koc, Oya
Sent: Monday, February 07, 2011 4:47 PM
To:
Cc: Goorts, Kelly; Rodriguez, Sandra
Subject: FW: Expansion of Burloak Water Purification Plant Phase 2.

Thank you very much for your interest to this project. We will certainly include you to our mailing list. Raw water supply line from Lake Ontario to the plant has sufficient capacity for the Phase 2 expansion. Halton Region is currently reviewing Water and Wastewater Master Plan. Among the many other things, the study will define the timing of the Phase 3. However, it is not expected to be initiated before 2026 or behind.

Regards,

Oya Koc, P.Eng.
Senior Project Manager
D 905.712.6998
oya.koc@aecom.com

AECOM
5600 Cancross Court, Suite A, Mississauga, Ontario L5R 3E9
T 905.501.0641 F 905.501.0108
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From:
Sent: February 6, 2011 1:13 PM
To: kelly.goorts@halton.ca; Koc, Oya
Cc: BVRA (Bronte Village Residents' Association); Ward1@oakville.ca
Subject: Expansion of Burloak Water Purification Plant Phase 2.

Note: Person added to mailing list.

Gentlemen:

I have just read the "Notice of Study Commencement" in the February 4, 2011 issue of the Oakville Beaver.

I would like to be added to the study mailing list. In the meantime, I note the study area limit does not include Great Lakes Boulevard from just south of the traffic circle to the lake. Do I take it that the pipeline feeder from the lake to the WPP, which runs up the west side of Great Lakes Boulevard, is of sufficient capacity to allow the increase of the plant's output by a factor of 3, i.e. 165,000 cubic metres a day? If so, great! If not, how will the pipeline capacity be increased?

What about for Phase 3 (there's bound to be one)?

Yours truly,

Lakeshore Woods, Oakville

Rodriguez, Sandra

From: Koc, Oya
Sent: Tuesday, February 15, 2011 3:13 PM
To: Goorts, Kelly; Burnett, Heather
Cc: Rodriguez, Sandra; Fraser MacDonald, Nichole
Subject: Burloak - Resident's call

I have received a call again

Residents name:

Already in Contact list

Comments:

Where is the expansion will be located?

I indicated all of the expansion will be within the site.

How is going to effected us?

There will be PIC meetings, she would be welcome to attend and see the impacts and mitigation factors. We can include her in our contact list for future communication.

She said okay and thanks

It was a brief conversation.

Oya Koc, P.Eng.

D 905.712.6998

oya.koc@aecom.com

AECOM

5600 Cancross Court, Suite A, Mississauga, Ontario L5R 3E9

T 905.501.0641 F 905.501.0108

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Rodriguez, Sandra

From: Koc, Oya
Sent: Friday, February 11, 2011 7:56 AM
To: Rodriguez, Sandra; Fraser MacDonald, Nichole
Subject: FW: Class EA - Burloak Phase II
Attachments: Master Plan PIC#2 Notice.pdf

Oya

From: Goorts, Kelly [<mailto:Kelly.Goorts@halton.ca>]
Sent: February 10, 2011 2:02 PM
To:
Cc: Koc, Oya; Burnett, Heather; Pawlus, Jacek
Subject: Class EA - Burloak Phase II

*Note: This person is
already on our list*

Thank you for taking the time to give me a call in regards to the Notice of Study Commencement for the Burloak Phase II Class EA.

As we discussed we are in the initial stages of this project and the plan is to meeting with residents and the public in April through a residents meeting and a formal public information centre, so we can address any concerns you may have throughout the project.

Some of your questions / concerns are about the air quality, chemicals being used, buffer between the plant / residents and future phases (build out - size of the plant). As we go through the process we will be working with our consultant AECOM to address these items, and will start being able to address these concerns at the upcoming meetings. The details around the site will be reviewed through this Class EA, however I also wanted to let you know about the Master Plan that is currently underway. The master plan looks at water supply and distribution to 2031 and the public information centres are being held in the next couple of weeks. I have attached the notice for your information.

<<Master Plan PIC#2 Notice.pdf>>

Via this email I have copied AECOM to ensure you are added to our contact list, as well as copied the Project Manager for the master plan so they can also ensure you are copied on further correspondence.

Information is:

Thanks again for your interest in this project, and if you have any additional questions or concerns prior to the upcoming meetings in April please do not hesitate to give me a call.

Regards,

Kelly

Kelly Goorts, P.Eng.
Project Manager, Water Design and Construction
Public Works Department
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 3309
Toll Free: 1-866-442-5866

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you

NOTICE OF PUBLIC INFORMATION CENTRE #2

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan to identify a preferred servicing strategy to accommodate growth to the year 2031. This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Act (2005). In accordance with this Act, the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).

Problem Statement

To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

This Sustainable Halton Water and Wastewater Master Plan will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031.

A key component of the Master Plan involves consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public Information Centers (PICs) at four locations (one in each local municipality). At the first round of PICs held on May 26/27/31 and June 2, 2010, the water and wastewater servicing concepts under evaluation were presented.

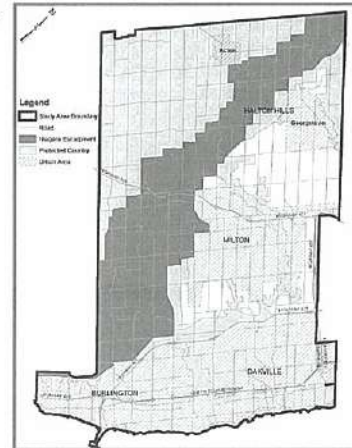
Since the first round of the PICs, the Region has completed a review of potential impacts on the natural, social and economic environments associated with each of the water and wastewater servicing concepts and alternatives that the Master Plan Study has identified. The review has resulted in the selection of preliminary preferred water and wastewater servicing alternatives. These preliminary preferred alternatives will be presented during a second round of PICs as shown in the following table:

Public Information Centre Locations

Municipality	Date	Time	Location
Town of Oakville	Wednesday, February 16, 2011	6:30 - 8:30 p.m.	Halton Regional Centre 1151 Bronte Road (North Auditorium)
City of Burlington	Thursday, February 17, 2011	6:30 - 8:30 p.m.	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Milton	Tuesday, February 22, 2011	6:30 - 8:30 p.m.	Milton Sports Centre 605 Santa Maria Boulevard (Banquet Hall)
Town of Halton Hills (Georgetown)	Thursday, February 24, 2011	6:30 - 8:30 p.m.	Christ the King High School 161 Guelph Street, (Cafeteria)

Additional information related to the study and consultation process may be obtained through the study website: www.halton.ca/WaterWastewaterClassEAs

This Notice first issued on February 3, 2011.



The PIC will be a drop-in format and provide residents/interested parties with an opportunity to review and comment on the preliminary preferred alternatives. Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing alternatives as they will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

Mr. David Simpson
Water Planning, Public Works
Halton Region
Phone: 905-825-6000 Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham, Ontario L3T 7W3
Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Please let us know as soon as possible if you will have an accessibility or accommodation need at a Halton Region hosted event or meeting.
1151 Bronte Road, Oakville, Ontario L6M 3L1 • Dial 311 or 905-825-6000 • Toll Free 1-866-442-5866 • TTY 905-827-9833 • www.halton.ca

Rodriguez, Sandra

From: Koc, Oya
Sent: Friday, February 04, 2011 5:26 PM
To: Goorts, Kelly
Cc: Rodriguez, Sandra
Subject: Burloak EA - resident

I received a call from a resident on Butterfly Lane. His name

He said he is concerned about the expansion, as he assumed that as we will be increasing the capacity two times, we would need larger building than the existing one now; therefore he was very concerns the visual impact. I indicated to him that we have not decided on the process and we do not know the size of the building expansion at this time. This project just started and this process will define the size of the building.

He also asked if there are any gas emission coming out of the plant that would cancerous, he indicated that he has two young children and he is concern etc. He also said that the residents would be very interested in with this project.

I mentioned to him about the PIC and may be even a tour of the plant. At the end he was pleased that he will be invited and he was in the mailing list.

Oya Koc, P.Eng.
D 905.712.6998
oya.koc@aecom.com

AECOM
5600 Cancross Court, Suite A, Mississauga, Ontario L5R 3E9
T 905.501.0641 F 905.501.0108
www.aecom.com

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Please consider the environment before printing this page.

B✓

B.2 Neighbourhood Drop-in and Public Information Centre No. 1



March 31, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-0267

Address

Greeting

You may be aware that the Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (EA) study. As part of the Class EA approval process Halton Region will be hosting a public information centre on April 28, 2011 to allow you to learn more about the project and give us your feedback on the proposed water purification technology options, as well as letting us know what design concepts are important to you.

Date: Thursday, April 28, 2011
Time: 7:00 – 9:00 pm
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 and 8:00 pm

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Goorts".

Kelly Goorts, P.Eng.

Project Manager, Water Design and Construction
Extension: 3309
Email: kelly.goorts@halton.ca

C: Gary Carr, Halton Regional Chair
Rick Goldring, Mayor, City of Burlington
Robert Burton, Mayor, Town of Oakville
Tom Adams, Regional Councillor and Chair, Planning & Public Works Committee

Paul Sharman, Regional Councillor, Ward 5, City of Burlington

A handwritten signature in blue ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.

Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

The Regional Municipality of Halton



Tom Adams, Regional Councillor and Chair, Planning & Public Works Committee

Paul Sharman, Regional Councillor, Ward 5, City of Burlington

Alan Johnston, Regional Councillor, Ward 1, Town of Oakville

Ralph Robinson, Town Councillor, Ward 1, Town of Oakville

Patrick Moyle, CAO, Halton Region

Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region

Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region

Chris Mills, P.Eng., Director, Engineering Services, Town of Halton Hills

Tom Eichenbaum, P. Eng., Director of Engineering Services, City of Burlington

Daniel Cozzi, P. Eng., Director, Engineering Services, Town of Oakville

Access Halton, Halton Region

The Regional Municipality of Halton

HEAD OFFICE 1151 Bronte Road, Oakville, Ontario L6M 3L1 • Tel: 905-825-6000 • Toll free: 1-866-442-5866 • TTY: 905-827-9833 • www.halton.ca

NOTICE OF PUBLIC INFORMATION CENTRE #1

Environmental Assessment for Phase 2 of the Burloak Water Purification Plant

The Study

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

A Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment process (October 2000, as amended in 2007).

The purpose of the Class EA study is:

- 1) To identify the preferred solution for increasing water treatment capacity at the plant; and
- 2) To recommend the preferred design for the expansion.

The study will include:

- Public and agency consultation;
- Evaluation of alternative design concepts for the expansion;
- Assessment of the impacts of the proposed work; and
- Identification of measures to mitigate impacts.

Technical, socio-cultural, natural environment and economic issues will be considered during the assessment.

The Process

As part of the study, a Public Information Centre (PIC) is planned to allow interested persons to learn more about the project and provide comments on the proposed treatment technology alternatives and the proposed criteria for evaluating the design concepts.

Date: Thursday, April 28, 2011
Time: 7 p.m. – 9 p.m.
Location: Burloak Water Purification Plant
 3380 Rebecca Street
 (parking available on site)
 Facility tours at 7:30 p.m. and 8 p.m.

You are encouraged to attend the PIC and provide comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended design concepts for the plant expansion as well as the evaluation measures. Comments and information regarding the project are being collected to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

If you are unable to attend, we would still like to hear from you. Please contact either of the project team members listed below if you have questions or comments, wish to obtain



more information on the project, or would like to be included on the project contact list:

Kelly Goorts
 Halton Region
 1151 Bronte Road
 Oakville, Ontario
 L6M 3L1
 Telephone: 905-825-6000 ext. 3309
 Fax: 905-825-0267
 kelly.goorts@halton.ca

Oya Koc
 AECOM
 5600 Cancross Court, Suite A
 Mississauga, Ontario
 L5R 3E9
 Telephone: 905-712-6998
 Fax: 905-501-0181
 oya.koc@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:

www.halton.ca/EAs

This Notice first issued on April 14, 2011



Making Halton a better place
to live, work and retire

Gary Carr
Regional Chair

**Burloak Water Purification Plant Expansion
Class Environmental Assessment
Frequently Asked Questions
April 2011**

Q: What stage is the existing water purification plant at? Is it up and running?

A: The existing Burloak Water Purification Plant (WPP) started purifying 55 ML of drinking water a day in the spring 2009 -- that's the same amount as 22 Olympic-size swimming pools. It currently purifies water to serve the populations of Burlington, Milton, Oakville and the Halton Hills 401 corridor.

Q: Why is this expansion required?

A: The Burloak Water Purification Plant provides safe and clean drinking water for the residents of Halton Region. The expansion of the facility is required to satisfy the anticipated water demand projections for Burlington, Milton, Oakville and Halton Hills.

Q: When will this plant expansion be complete?

A: It is expected that the plant expansion will be completed and the facility operational by 2017.

Q: When will construction start? How long do you expect the construction to take?

A: The design of the expansion and the related approvals are anticipated to take until the end of 2013. Construction will probably start in 2014 in order to be completed by 2017.

Q: Can I expect any further construction on the Burloak WPP after this expansion?

A: Yes, the facility is scheduled for a multi-phase expansion. The upcoming work is phase 2. Each phase will undergo a Municipal Class Environmental Assessment.

Q: What will the new expansion look like?

A: The facility will be designed to tie-in with the existing building and the look and feel of the neighbourhood. The expansion will be on the existing property.

.... continued

Q: How much closer will the expansion be to the houses on the south?

A: It is anticipated that most of the expansion will occur on the south of the property. The expansion will be contained within the existing site with a landscaped area between the buildings and the houses on the south. Landscape features will be incorporated to improve the view for neighbouring residents. The size of the building expansion will be defined in the next stage of the project. Information on the proposed expansion area will be provided at the second public information centre.

Q: I live in the area. What type of disruptions can I expect?

A: As with any construction project, you can expect some amount of noise and dust. Halton Region is working to ensure that any impacts are minimal through dust control efforts and adhering to the Town of Oakville by-law to minimize noise disruption. Construction activities, including noise and truck traffic, will normally be limited to between 7 a.m. and 7 p.m., Monday through Saturday. There will be trucks moving in and out of the facility during the construction phase. These trucks will be entering and exiting on Rebecca Street and will not use the residential streets for access.

Q: I have small children and I am concerned about safety during the construction period.

A: Health and safety is a priority for Halton Region. All contractors will adhere to strict safety guidelines. Trucks will avoid residential streets and use back up alarm systems to signal. Construction will be contained within the fenced area of the site.

Q: Where is the money for the expansion coming from?

A: In keeping with Halton Region's practice that new growth should pay for itself, the costs for the expansion are being paid through development fees, not taxpayers' money.

Q: Will there be any economic benefits to the community from this expansion?

A: Yes. There will be indirect economic benefits to the community through an increased tax base. The expansion is needed to meet the needs of new residential and employment land development.

Q: What impact will the expansion of the water purification plant have on the environment?

A: Other than temporary construction impacts, there are no major environmental impacts anticipated from this project. However, any potential impacts will be identified and evaluated as part of this Class EA study.

.... continued

Q: Will there be increased noise after the expansion has been completed?

A: No. The expansion of the Burloak WPP will not generate additional noise. The plant is designed to meet all Ministry of the Environment requirements for noise emissions.

Q: Will this expansion affect property values?

A: In cases where facilities are close to residential areas, it is our practice to integrate them into the existing neighbourhood and ensure that comprehensive landscape designs minimize visual disturbances. As such, it has been our experience that property values are not affected by the proximity of infrastructure facilities.

Q: I have a business in the adjacent plaza. I am concerned that the truck traffic may impact my business.

A: There will be trucks moving in and out of the facility during the construction phase. These trucks will be entering and exiting on Rebecca Street and will not use the residential streets for access. Trucks will not be stationary and will not obstruct the entrance way to the plaza. We anticipate that during this time, it will be 'business as usual' for plaza occupants and users.

Q: Will the water quality/quantity be affected during or after the expansion?

A: No. Construction activities will be coordinated to minimize disruption with the current operation of the plant and ensure an uninterrupted supply of water. Halton Region uses state-of-the-art technology to provide safe and clean drinking water that meets or exceeds Ministry of the Environment standards. The expansion will increase the amount of clean and safe drinking water that is produced and will not affect the quality.

Q: Should we be concerned about any air emissions generated by the expanded plant?

A: No. Halton Region will ensure that all regulatory approvals as set out by the Environmental Protection Act are met or exceeded.

.... continued

Q: Is there an opportunity to provide input to the project?

A: Yes! Through this EA process, Halton Region wants to partner with the community to make sure everyone's perspective is heard and valued. There will be a number of ways to provide input including:

- email or phone to Halton Region's Project Manager or the Consultant's Project Manager
- in-person at the Public Information Centres (PIC)
- submitting a PIC Comment Sheet
- writing a letter to the project team
- sending us your comments through our website

With the exception of personal information, all input to the project will be documented and become part of the official record.

Q: When are you having the next Public Information Centre?

A: We are having the first PIC on April 28, 2011 and the second PIC is tentatively scheduled for the fall 2011. Newspaper ads and invitation letters will be published ahead of time notifying interested people of the next meeting.

Q: Who do I contact if I have a comment or question?

A: Contact Halton Region by:

- dialing 311 or 905-825-6000 or
- toll free 1-866-442-5866 (1-866-4HALTON).

You can also contact Kelly Goorts, Project Manager, Water Design and Construction, Halton Region at 905-825-6000, ext. 3309 or Oya Koc, Project Manager, AECOM, at 905-712-6998.

You can also go online to www.halton.ca/EAs or www.halton.ca/construction and follow the links to the Burloak Water Purification Plant EA Study to fill out an online comment form.

COMMENT SHEET

Municipal Class Environmental Assessment Study Burloak Water Purification Plant Phase 2 Expansion

Public Information Centre No. 1
April 28, 2011

Halton Region is interested in hearing any comments, questions or concerns that you may have regarding the proposed Burloak Water Purification Plant expansion. Please take some time to complete this Comment Sheet. All comments will be carefully considered in the Class Environmental Assessment Study. Please drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **May 13, 2011**:

Kelly Goorts

Project Manager, Water Design and Construction
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario L6M 3L1

Telephone: 905-825-6000 ext. 3309
Fax: 905-825-0267
Kelly.goorts@halton.ca

Oya Koc

Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario L5R 3E9

Telephone: 905-712-6998
Fax: 905-501-0181
Email: Oya.koc@aecom.com

1. Did this Public Information Centre help you to understand the need for this project?
Yes ☐ No ☐
2. Did you have enough opportunity to ask questions, make comments or express concerns?
Yes ☐ No ☐
3. Were those questions answered to your satisfaction?
Yes ☐ No ☐
4. Do you have any comments, concerns, questions or suggestions regarding the purpose and the need for this project?

5. Do you have any comments, concerns, questions or suggestions regarding the alternative treatment technologies being considered under this study?

6. What elements, aspects, or features would you like us to consider during the selection of the preferred treatment process for the next expansion?

7. What impacts will this project have on you? and, what mitigation measures would you recommend to be considered during construction of this project?

ADDITIONAL COMMENTS:

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME:

(please print)

ADDRESS:

POSTAL CODE:

PHONE:

(day)

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

☐ Newspaper ad

☐ Notice in mail

☐ Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> <u>(Y/N)</u>	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	_____	_____
Time of Meeting	_____	_____
Day of the Week	_____	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very		Somewhat		Not at all
1	2	3	4	5

b) How helpful were the staff and consultants in attendance?

Very		Somewhat		Not at all
1	2	3	4	5

Were all your questions answered satisfactorily?

☐ Yes

☐ No

Other Comments:

Insect,
Plastic Punch

Building a Better Halton



Planning for the Burloak Water Purification Plant Expansion

April 2011



Message from the Halton Regional Chair, Gary Carr



Gary Carr
Regional Chair

Improving your quality of life – whether it's helping to reduce commute times or providing you with clean, safe drinking water – is a top priority.

We are making a significant commitment to infrastructure – more than \$190 million this year alone – because it's the right decision for Halton.

You may think of our infrastructure construction when you see the construction crew start working, but we get to work long before that. Every major infrastructure construction project has gone through an Environmental Assessment process and is part of a larger plan to meet the needs of Halton residents and businesses.

The Burloak Water Purification Plant expansion is just one of the many projects we're starting to plan for. It's part of our bigger infrastructure plan, which we call Building a Better Halton, to ensure that Halton's residents continue to enjoy a high quality of life.

Building a Better Halton is our infrastructure plan for Halton Region. It has its own special identity which you will see on construction signs, mail outs to your home and business, Halton's website and other communications materials.

To find out more about Halton's Building a Better Halton planning and construction plans, dial 311 or visit www.halton.ca/construction.

Together we can ensure that Halton remains a great place to live, work, raise a family and retire.

For more information, contact
Halton Region

Dial 311 or 905-825-6000

Toll free 1-866-4HALTON (1-866-442-5866)

TTY 905-827-9833

www.halton.ca



Public Works
For Our Community
and Our Environment.

PR-21012

Delivering a Water Project

Here are the phases involved in planning and executing a water project in Halton Region.

Phase 1 – Project Planning

- Establish need for project
- Complete environmental assessment
- Hold public and stakeholder consultation
- Develop and approve budget

Phase 2 – Design and Approvals

- Create detailed design for construction
- Hold public and stakeholder consultation
- Finalize environmental approvals
- Purchase land (when required)
- Tender construction project

Phase 3 – Construction

- Relocate utilities (when required)
- Build new or expand existing infrastructure

Phase 4 – Restoration

- Landscape site
- Finish final site clean up



Expanding the Burloak Water Purification Plant

What We Are Doing

- Working on the Environmental Assessment for Phase Two of the Burloak Water Purification Plant.
- Expanding the plant so it can clean another 110 ML of water a day – that's the same as 44 Olympic sized swimming pools. The plant can currently clean 55 ML of water a day – the same as 22 Olympic sized swimming pools.
- Talking with the community to hear their comments regarding the project.

Environmental Considerations

All of the Region's infrastructure improvements are subject to environmental approval.

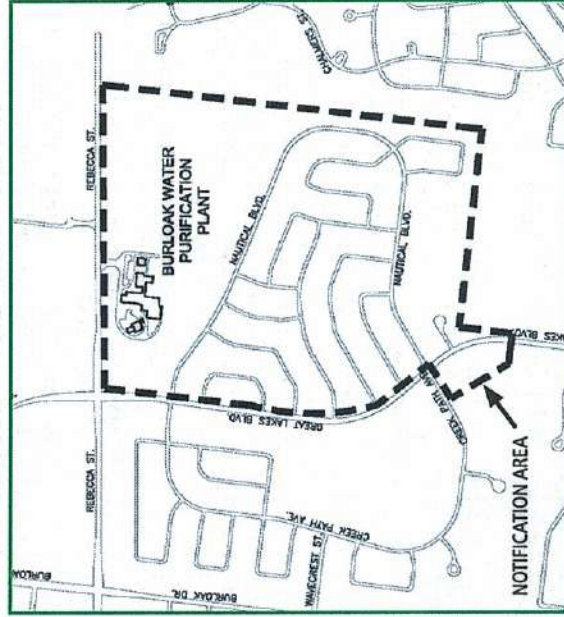
Other than temporary construction impacts, there are no major environmental impacts anticipated from this project. We will work with neighbouring residents and businesses to minimize construction impacts.



Anticipated Project Timeline



Plant Location



Next Steps

Working with the neighbourhood is a critical component of expanding the Burloak Water Purification Plant. In 2011 we are planning to have at least two Public Information Centres – one in the Spring and one in the Fall.

The Environmental Assessment and conceptual design should be completed by early 2012.

Contact Us

To reach our Project Manager, Kelly Goorts, call 905-825-6000, ext. 3309 or email her at Kelly.Goorts@halton.ca. For general information or after hours assistance, you can also dial 311.

This project is part of **Building a Better Halton**. For more information on our infrastructure planning and construction plans, dial 311 or go to www.halton.ca/construction.



You're Invited!

Burloak Water Purification Plant Expansion

An opportunity for neighbours to meet members of the Burloak Water Purification Plant Expansion team and learn more about this important development for our community.



Building
a Better
Halton



You're Invited!

Neighbourhood Drop-in

Open house and facility tour
for nearby homeowners and
area businesses.

Tuesday, April 19 2011

7:00 p.m. - 9:00 p.m.

Tour at 7:30 p.m.

Location:

**Burloak Water Purification Plant
3380 Rebecca Street, Oakville ON**

Please RSVP:

Lisa Snowball

905-825-6000 ext. 7627

lisa.snowball@halton.ca

Halton Region

Dial 311 or 905-825-6000

Toll free 1-866-4HALTON (1-866-442-5866)

TTY 905-827-9833

www.halton.ca

Visit **www.halton.ca/EAs** for more project information



You're Invited! Neighbourhood Drop-in

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Please RSVP:

Lisa Snowball

905-825-6000 ext. 7627

lisa.snowball@halton.ca

Halton Region

Dial 311 or 905-825-6000

Toll free 1-866-4HALTON (1-866-442-5866)

TTY 905-827-9833

www.halton.ca

Visit **www.halton.ca/EAs** for more project information

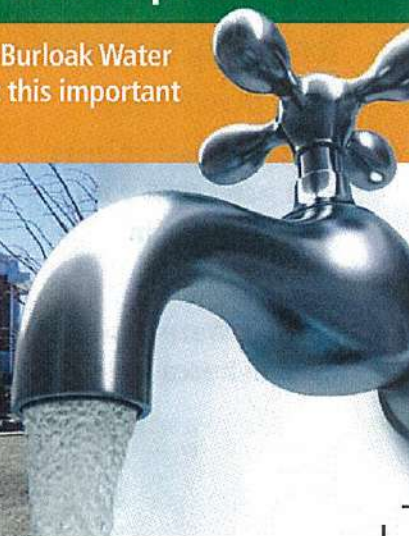
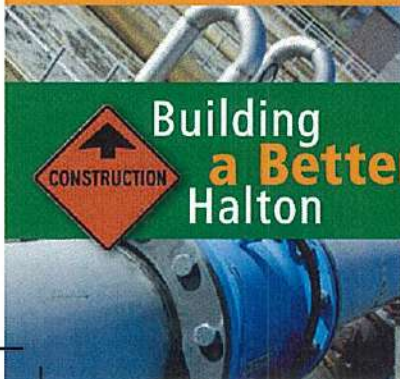


You're Invited! Burloak Water Purification Plant Expansion

An opportunity for neighbours to meet members of the Burloak Water Purification Plant Expansion team and learn more about this important development for our community.



**Building
a Better
Halton**





Serving our Communities and our Environment



Class Environmental Assessment for
Burloak Water Purification Plant
Phase 2 Expansion
Public Information Centre No.1

Welcome

Class Environmental Assessment Burloak Water Purification Plant Phase 2 Expansion Public Information Centre No.1

- Please sign in on the sheet provided.
- Please review display materials.
- Our representatives will be pleased to discuss the study with you, or any questions or concerns that you may have.
- Comment sheets are provided. Please complete the comment sheet and drop it in the Comment Box tonight, or return it to the contact people provided in the Comment Sheet by **May 13, 2011**.



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.2

AECOM

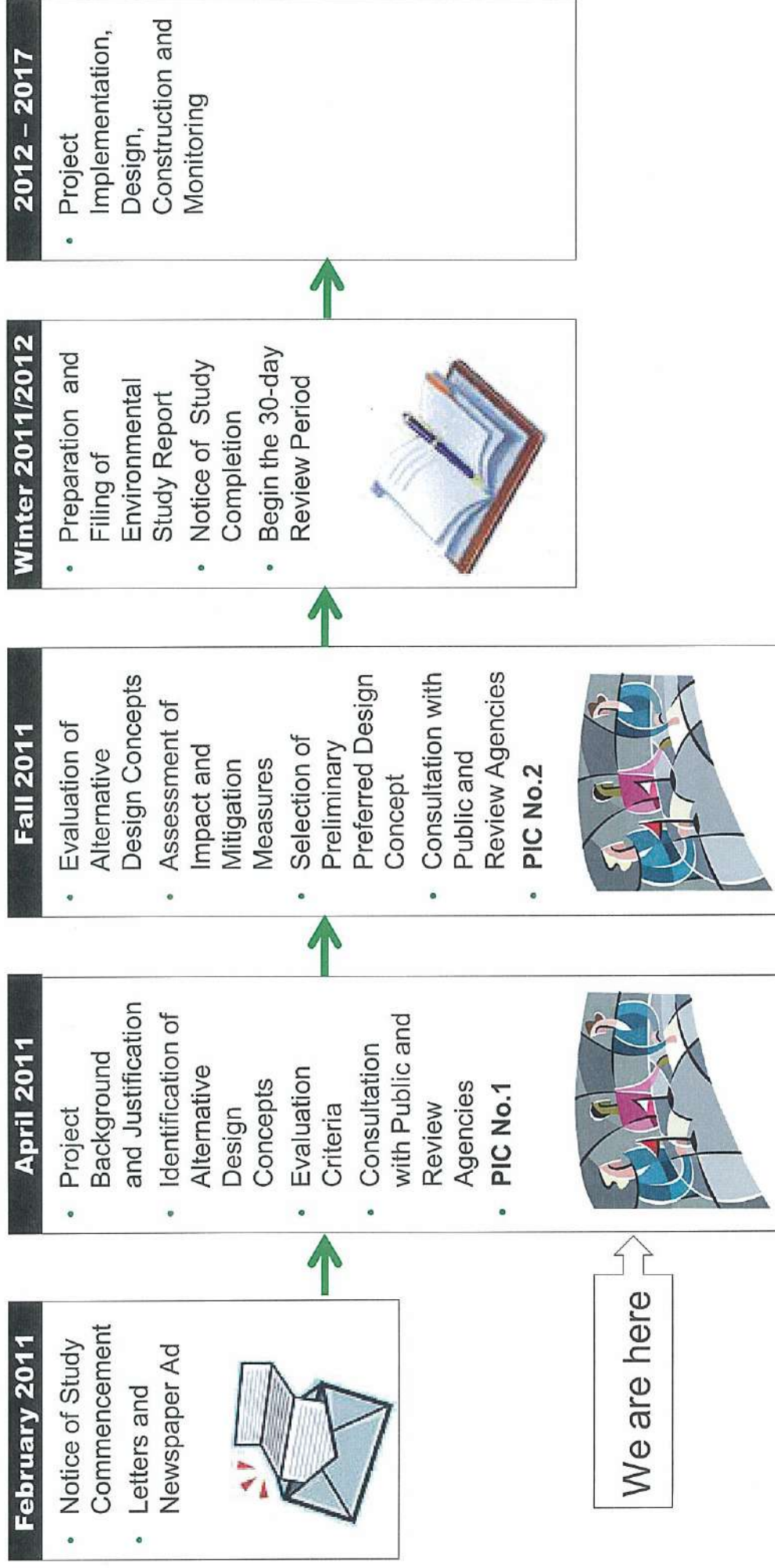
Why are we here tonight?

- Halton Region is undertaking a Schedule “C” Municipal Class Environmental Assessment (Class EA) study to select the preferred alternative for the expansion of the Burloak Water Purification Plant (WPP), in the Town of Oakville.
- The expansion of the existing Burloak WPP is necessary to satisfy Halton’s projected water demands.
- Public participation is an integral part of the Class EA study process. We encourage you to review the information presented tonight and provide us with any comments or concerns which you may have.

Objectives of this Public Information Centre

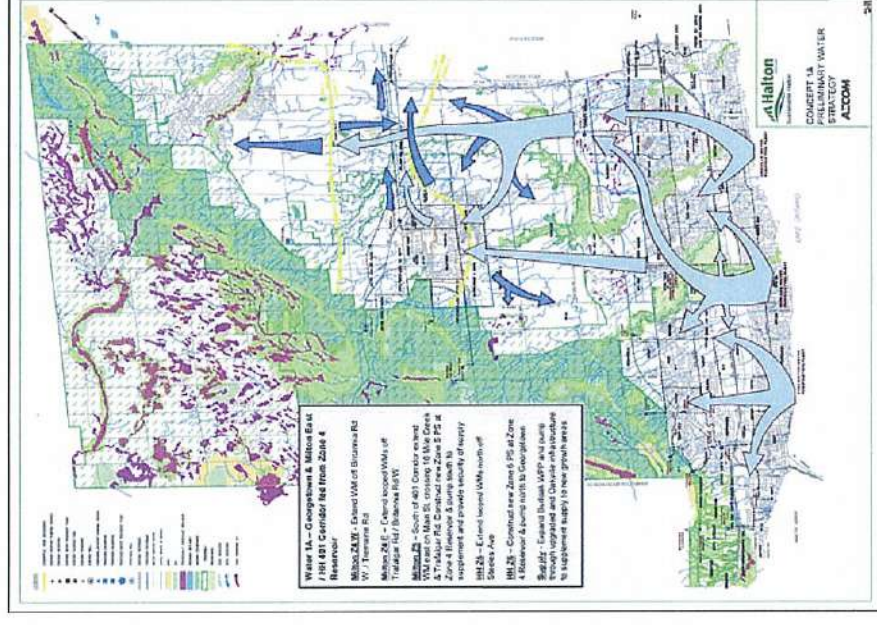
- To introduce the project to the public and review agencies
- To provide information on the activities to be undertaken under the Class Environmental Assessment process
- To provide the project background and history
- To review the alternative treatment technologies under consideration
- To review the results of the preliminary screening of alternative treatment technologies
- To present the proposed evaluation criteria to be used when evaluating the alternative treatment trains
- To receive input and suggestions from the public and interested review agencies

Overview of Activities under the Class Environmental Assessment Process



South Halton Preliminary Preferred Water Servicing Strategy

- The 2002 Halton Water and Wastewater Master Plan Review identified the need for the Burloak Water Purification Plant (WPP).
- The Burloak WPP was to be built in phases, with the first phase providing a capacity of 55 ML/d (about 22 olympic sized swimming pools). Timing and additional capacity requirements for the next expansions would be determined through reviews to the Region Master Plan.
- The 2008 Master Plan Update identified that next capacity expansion of the Burloak WPP would be required by 2016 to meet planning projections to 2021.
- The Region is currently undertaking the Sustainable Halton Water and Wastewater Servicing Master Plan Class EA study. This Master Plan will provide the servicing infrastructure strategy to serve the existing and future residents/business up to 2031.



Burloak Water Purification Plant – Plant History

- The need for the Burloak Water Purification Plant (WPP) was identified in the 2002 Master Plan Review.
- A Class Environmental Assessment (Class EA) Study was completed in 2004 to select the preferred location and treatment process for the new plant. Consultation with the public and review agencies was undertaken as part of the 2004 study.
- Detailed design of the new plant was completed in 2006.
- Construction of the plant commenced in 2006.
- The plant started operating in 2009 with a capacity of 55 ML/d.



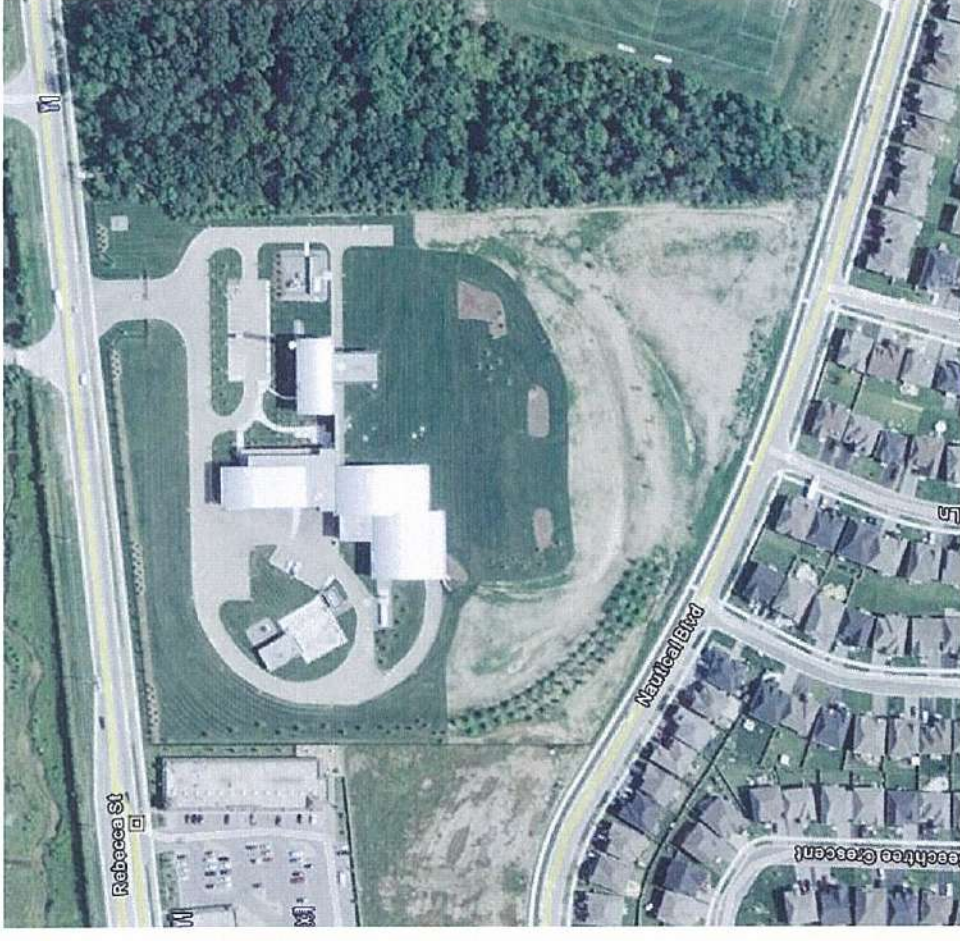
Burloak Water Purification Plant

Burloak WPP Phase 1 – 2004

Class EA Study Commitments

- Potential architectural looks for the new plant were shown to the public.
- Landscaping and architectural features would be implemented to provide a visual improvement of the area.
- Landscape plans to include adequate vegetated buffer areas, with berms where appropriate.
- A Citizen's Advisory Committee would be created to provide input on architectural features and landscaping.
- The woodlot to the east of the plant would not be disturbed.
- All traffic would avoid the residential neighbourhood to the south of the plant.
- Specified noise limits not to be exceeded.
- None of the selected processes would generate odour.
- Public roadways would be kept clean and free of mud.

Burloak WPP Phase 1 – Landscape



Burloak WPP Phase 1 – Proposed Landscape Plan

Burloak WPP Landscape



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.9

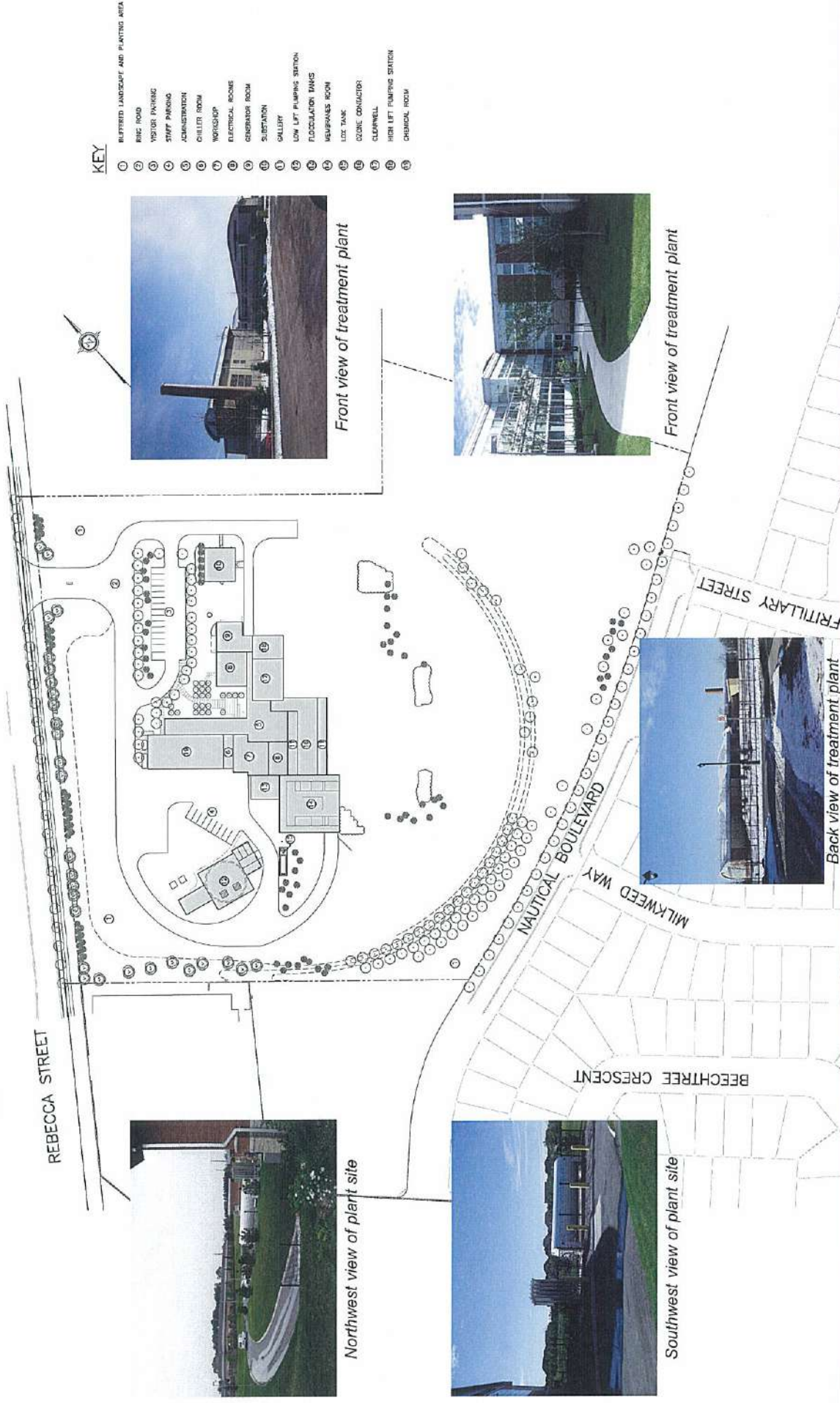
A=COM

Class EA Objective and Study Area

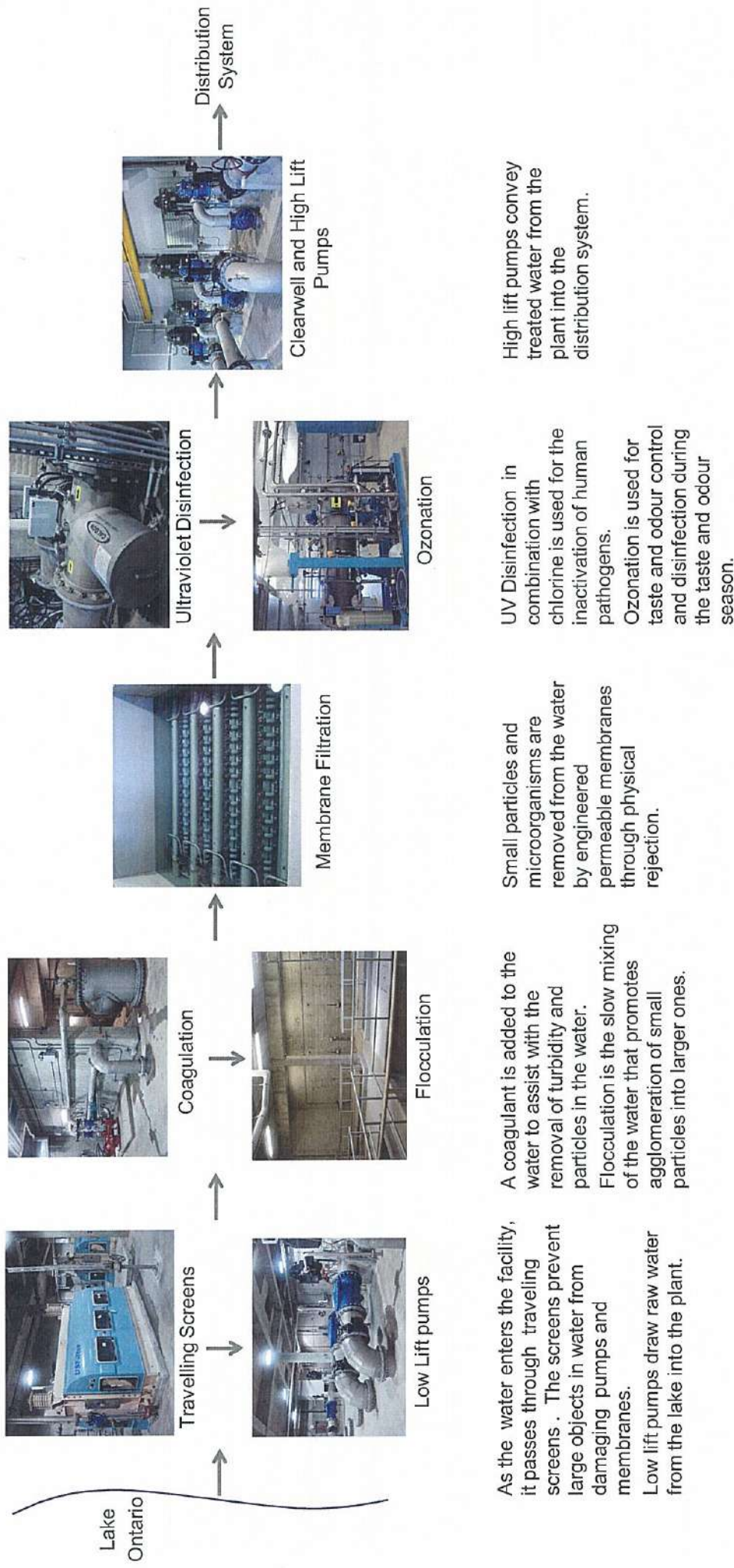
- The ongoing Sustainable Halton Master Plan has estimated that the Burloak WPP will need to be expanded by 2017 in order to satisfy the water demand projections.
- The objective of the Class EA study is to select the preferred design concept for the next expansion of the Burloak WPP.
- The preferred design concept should be sustainable, technically and environmentally sound and economically mindful in terms of capital and operating costs.



Existing Burloak WPP Layout



How is the Water Treated at the Burloak WPP?



Treatment Process Selection for the Next Expansion

- An evaluation methodology has been developed to assist in the selection of the preferred treatment process for the next expansion.
- The main steps in the evaluation methodology are:
 - **Step 1:** Develop water quality treatment objectives for this expansion.
 - **Step 2:** Develop a long list of treatment technologies available.
 - **Step 3:** Develop preliminary screening criteria and complete preliminary screening. It identifies only those technologies that are feasible for this project and eliminates unrealistic options.
 - **Step 4:** Develop treatment trains based on a short-list of feasible treatment technologies.
 - **Step 5:** Develop detailed evaluation criteria and complete detailed evaluation of treatment trains.
 - **Step 6:** Prepare a cost benefit analysis of the treatment trains and select the preferred treatment train.
- Results from Steps 1 to 3 are shown in the next panels.
- Steps 4 to 6 will be completed in the next stages of the Class EA study.

Water Quality Treatment Objectives

- Water quality treatment objectives have been developed as part of this Class EA study. The treatment objectives for this expansion meet or exceed the Ontario Drinking Water Quality Standards, Objectives and Guidelines.
- Water quality treatment objectives have been grouped in seven main categories that include:
 - Pathogen Control
 - Disinfection By-products (DBPs) Control
 - Organics Control
 - Distribution System Water Stability
 - Inorganics Control
 - Emerging Contaminants
 - Aesthetics (Color and Taste & Odour)
- Process treatment trains will be developed under the premise that every train meets or exceeds these water quality treatment objectives.

Main Treatment Process – Alternative Technologies (1 of 3)

- Alternatives for Particulate Removal:
 - **Conventional Filtration;** a method of treating water to remove particulates. It consists of the addition of coagulant chemicals to promote formation of larger and heavier particles that are removed in the clarification tanks. Remaining solids in the water are further removed in filters.
 - **Direct Filtration;** similar to conventional filtration with the exception that the clarification tanks are eliminated; thus, the filters are responsible for removing all contaminants from the water.
 - **Membrane Filtration;** is a physical separation process in which particulate matter is rejected by an engineered permeable membrane.



Immersed Membranes

Main Treatment Process – Alternative Technologies (2 of 3)

- Alternatives for Primary Disinfection (Pathogen Inactivation):

- **Chlorination;** is the addition of chlorine to the water to inactivate human pathogens present in water.
- **Ultraviolet (UV) Irradiation;** is a physical process that uses ultraviolet irradiation to prevent the cellular replication of organisms. UV light is emitted through a series of lamps located in enclosed contactors.
- **Ozonation;** is a process that destroys bacteria and other microorganisms present in water through an infusion of ozone, a gas produced by subjecting oxygen molecules to high electrical voltages.



Chlorinators - Gas Cylinders



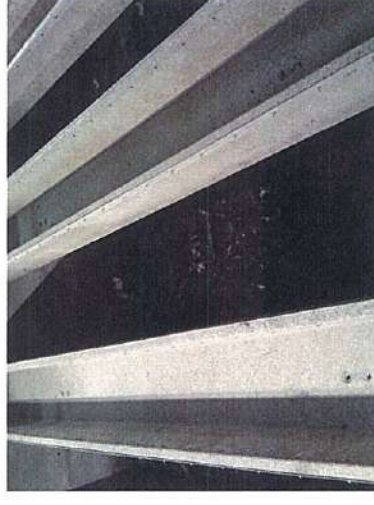
Ozone System

Main Treatment Process – Alternative Technologies (3 of 3)

- Alternatives for Taste & Odour Control:
 - **Ozone**; is a very strong oxidant capable of destroying many taste and odour compounds in water.
 - **UV Oxidation**; involves the use of UV irradiation and hydrogen peroxide, which results in the formation of powerful oxidants able to rapidly destroy taste and odour causing compounds.
 - **Powdered Activated Carbon (PAC)**; is used to remove taste and odour causing compounds in water by attracting these compounds to the surface of the activated carbon in the form of powder.
 - **Granular Activated Carbon (GAC)**; also removes taste and odour causing compounds in water by attraction to the activated carbon media, but in this case the carbon is in the granular form and typically used in contactor beds or in filters.



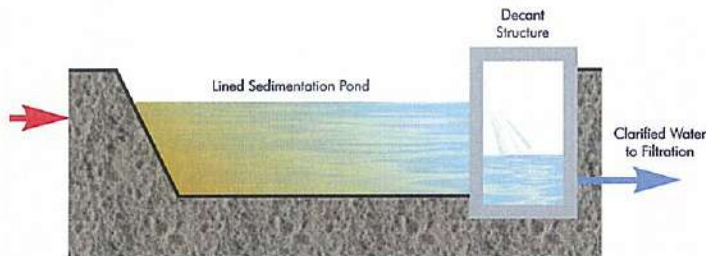
UV Reactor



GAC Filter Bed

Residuals Treatment Process – Alternative Technologies (1 of 4)

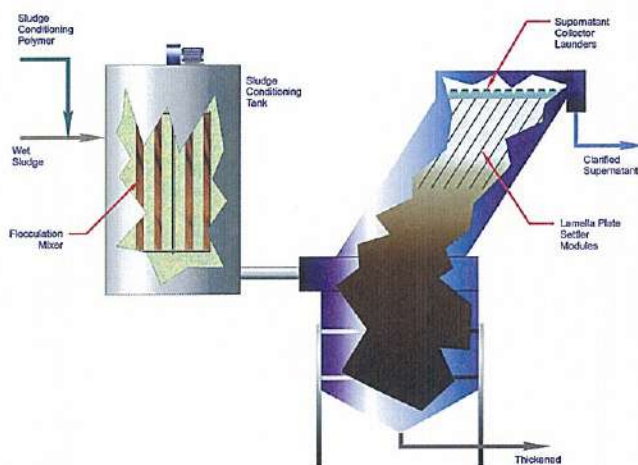
- Alternatives for Clarification/Thickening:



Schematic of Crude Sedimentation

Gravity Sedimentation/Thickening:

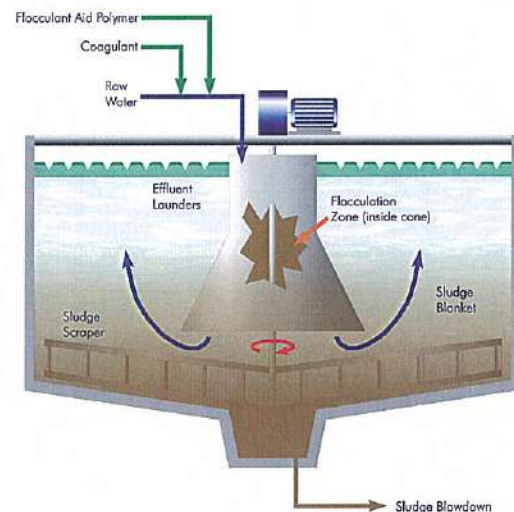
Polymer is added to the sludge to promote the formation of larger particles within the tank. Sludge enters the tank and is allowed to settle and compact. The thickened sludge is collected and withdrawn at the bottom of the tank.



Schematic of Plate Settlers Sedimentation /Thickening

Crude Sedimentation/Thickening:

Raw sludge is discharged into concrete tanks, where the solids settle by gravity to the bottom of the tanks and clarified water forms on the top.



Schematic of Gravity Sedimentation /Thickening

Plate Settlers Sedimentation/Thickening:

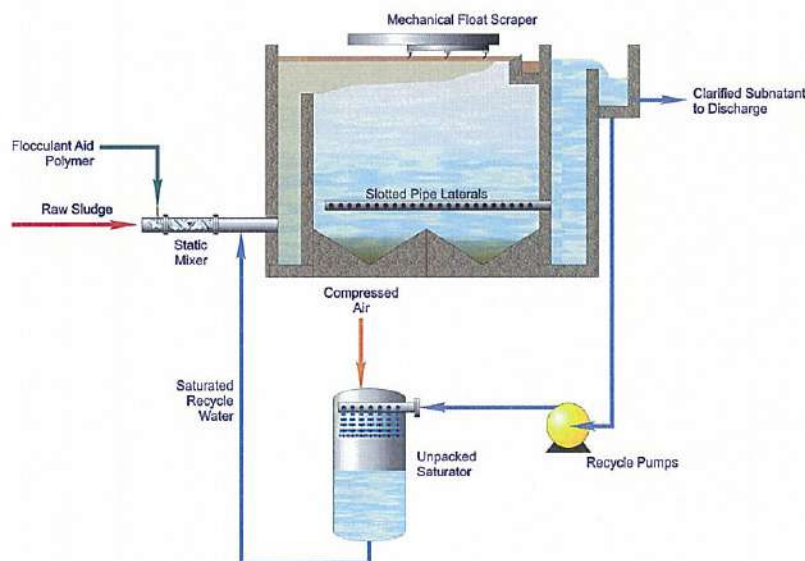
As sludge travels through the inclined plates, the solids settle onto and slide down from each plate to the sludge tank in the bottom, where the sludge is further thickened before being removed.

Residuals Treatment Process – Alternative Technologies (2 of 4)

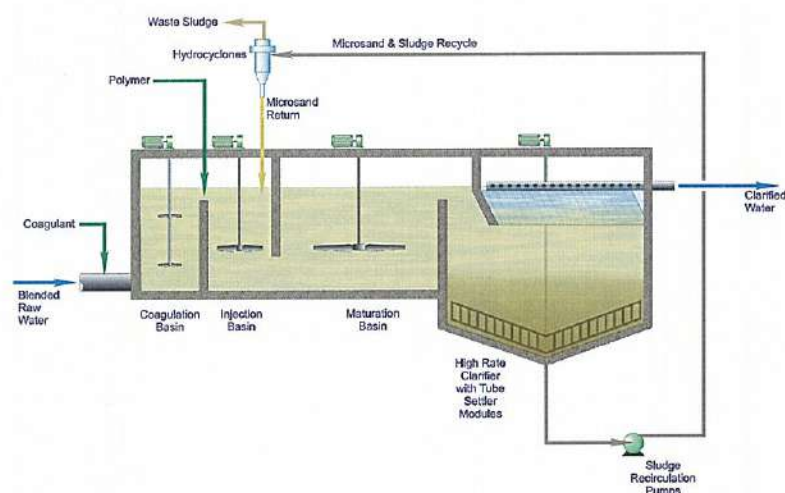
- Alternatives for Clarification/Thickening (cont'd):

Dissolved Air Flotation Clarification/Thickening:

Involves both clarification and flotation. Air bubbles, introduced to the water, attach to particulate matter present in the water and float to the surface of the tank forming a layer of sludge, which is scrapped off the surface.



Schematic of Dissolved Air Flotation Clarification /Thickening



Schematic of (Actiflo®) Clarification /Thickening

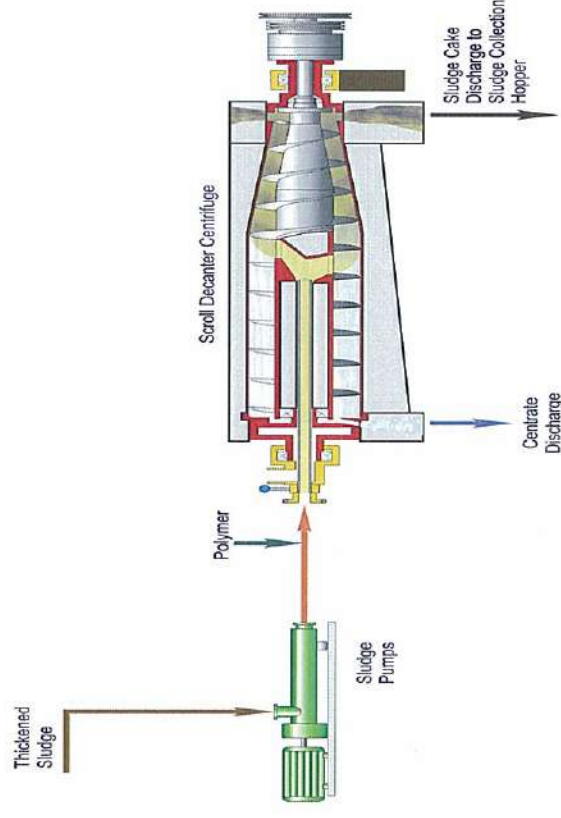
(Actiflo®) Clarification/Thickening

Uses of microsand to accelerate the settling of particles in the bottom of the tank, forming a layer of sludge. The sludge is scraped from the bottom and pumped into hydrocyclones where microsand is recovered for reuse. Clarified water is collected at the top for further processing and disposal.

Residuals Treatment Process – Alternative Technologies (3 of 4)

- Alternatives for Dewatering/Drying (cont'd):

- **Drying Beds;** involves placing the sludge on shallow concrete basins filled with sand and gravel or an impervious material for subsequent drainage of water from the sludge through the filter material.
- **Dewatering Lagoons;** involves discharging sludge into the lagoons from which the solids are separated by gravity settling. As the lagoon fills with sludge, natural settling occurs on the bottom of the lagoon and clarified sludge can be transferred away.
- **Centrifuges;** whereby sludge is rotated at high speeds to increase the gravitational forces applied to it, which improves the solids/liquid separation process.

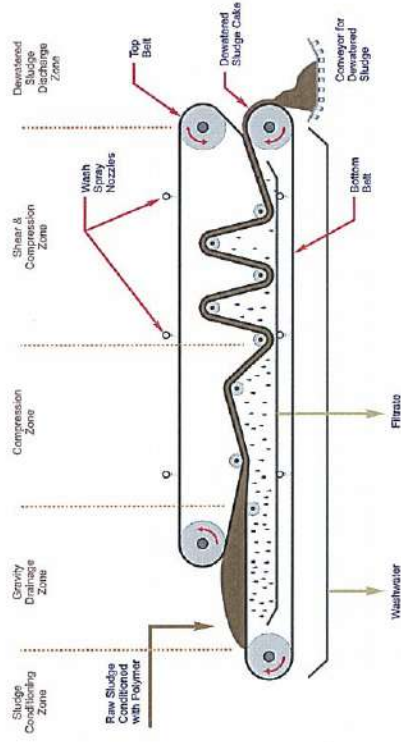


Schematic of Centrifugation Dewatering/Drying

Residuals Treatment Process – Alternative Technologies (4 of 4)

- Alternatives for Dewatering/Drying (cont'd):

- **Belt Filter Presses;** involves the dewatering of thickened sludge through double moving belts that combine drainage and compression.
- **Static Filter Presses;** involves the squeezing of sludge between two filter cloths attached to the inside of concave plates mounted on a frame. The frames are pressed together forcing the liquid through the filter cloth and plate outlet, leaving a dry cake behind. The plates are then separated and the sludge removed.

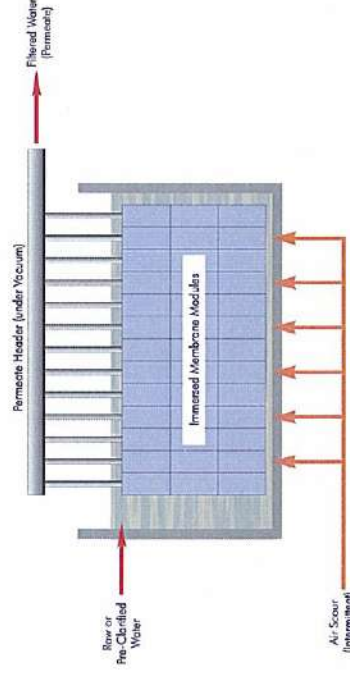


Schematic of Belt Filter Press Dewatering/Drying

- Alternative for Secondary Membrane

Filtration

- **Membrane Filtration;** membranes can also be used for processing of the plant residuals by physical rejection of particulate removals from membranes.



Schematic of Typical Immersed Membrane Filtration

Main Treatment Technologies – Preliminary Screening Criteria

- Preliminary screening criteria were developed to examine the long list of main treatment technologies and identify only those that are feasible. Screening criteria for the main treatment technologies included:
 - Compliance:
 - Alternative must be able to continuously meet or exceed the proposed treatment objectives and provide a multi-barrier approach
 - Technical Feasibility:
 - Alternative must be compatible with existing infrastructure and treatment processes
 - Alternative must enable the project to be completed within the specified timeframe
 - Capacity:
 - Alternative must be able to meet the required design treatment capacity and maximize the ultimate site capacity

Main Treatment Technologies – Preliminary Screening Results

Alternative Treatment Technologies	Preliminary Screening Criteria			Recommendation
	Compliance	Technical Feasibility	Capacity	
Particulate Removal				
Conventional Filtration	✓	✓	✓	To be carried forward for further evaluation, assuming that plate settlers will be used for clarification purposes.
Direct Filtration	✓	✓	X	Not recommended for further evaluation. Alternative does not provide multi-barrier approach as sedimentation process is eliminated. Performance of the technology may be compromised during high raw water turbidity events.
Membrane Filtration	✓	✓	✓	To be carried forward for further evaluation.
Primary Disinfection				
Chlorination	X	✓	X	Not recommended for further evaluation. Chlorine alone cannot achieve the required inactivation for <i>Cryptosporidium</i> . Ability to maximize ultimate site capacity may be compromised.
UV	X	✓	✓	Not recommended for further evaluation. UV alone cannot achieve the required inactivation for viruses.
Ozonation	✓	✓	✓	To be carried forward for further evaluation.
Taste and Odour Control				
Ozonation	✓	✓	✓	To be carried forward for further evaluation.
UV Oxidation	✓	✓	✓	To be carried forward for further evaluation.
PAC	✓	X	✓	Not recommended for further evaluation. High impact to the residuals facilities and operational complexity. PAC could potentially foul/stress membranes, if selected as the preferred technology.
GAC	X	✓	✓	Not recommended for further evaluation. GAC compromises the ability to continuously meet the T&O objective and the multi-barrier approach.

Residuals Treatment Technologies – Preliminary Screening Criteria

- Preliminary screening criteria were developed to examine the long list of residuals treatment technologies and identify only those that are feasible. Screening criteria for residuals treatment technologies included:
 - Technical Feasibility:
 - Alternative must have the ability to operate under existing climatic conditions
 - Alternative must provide operational flexibility
 - Alternative must have the ability to be implemented within available space on-site
 - Alternative must provide proven track record

Residuals Treatment Technologies – Preliminary Screening Results (1 of 2)

Alternative Treatment Technologies	Preliminary Screening Criteria				Recommendation
	Operational for Climatic Conditions	Operational Feasibility	Fit on site	Proven Track Record	
Crude Clarification/Thickening	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.
Gravity Clarification/Thickening	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.
Plate Settlers Clarification/Thickening	✓	✓	✓	✓	To be carried forward for further evaluation.
DAF Clarification/Thickening	✓	✓	✓	✓	To be carried forward for further evaluation.
ACTIFLO® Clarification/Thickening	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.

Residuals Treatment Technologies – Preliminary Screening Results (2 of 2)

Alternative Treatment Technologies	Preliminary Screening Criteria				Recommendation
	Operational for Climatic Conditions	Operational Feasibility	Fit on site	Proven Track Record	
Dewatering/Drying	Drying Beds	X	✓	X	Not recommended for further consideration. Inability to perform well under all climatic conditions. The large footprint requirement does not meet existing space limitations on-site. Technology not commonly used in Canada.
	Dewatering Lagoons	X	✓	✓	Not recommended for further consideration. Inability to perform well under all climatic conditions. The large footprint requirement does not meet existing space limitations on-site.
	Centrifuges	✓	✓	✓	To be carried forward for further evaluation.
	Belt Filter Press	✓	✓	✓	To be carried forward for further evaluation.
	Frame and Plate Filter Press	✓	X	X	Not recommended for further consideration. Technology is extremely labor intensive and unheard of in Canada.
Membrane Filtration	Secondary Membrane Filtration	✓	✓	✓	To be carried forward for further evaluation.

Main Treatment Process Selection – Detailed Evaluation Criteria

- Evaluation criteria and sub-criteria to be used when evaluating main treatment process trains include:

Water Quality Considerations:

- Pathogen control
- Minimize Disinfection By-Products
- Organics removal
- Water stability in distribution system
- Minimize aluminum residuals
- Flexibility to respond to Emerging Contaminants
- Ability to meet Aesthetics Objectives
- Flexibility for future objectives
- Flexibility to respond to variable raw water quality

Social Considerations:

- Minimize footprint and site impacts /architectural aesthetics
- Minimize truck traffic (construction and operation)
- Minimize noise
- Minimize odour

Technical Considerations:

- Compatibility with existing system
- Flexibility for expansion
- Operation and maintenance requirements
- Process complexity
- Proven track record
- Safety requirements
- Ability to maximize ultimate site capacity/Compatibility with existing site
- Ease of implementation
- Process robustness and redundancy

Natural Environmental Considerations:

- Minimize air emissions
- Minimize residuals impacts

Residuals Treatment Process Selection – Detailed Evaluation Criteria

- Evaluation criteria to be used when evaluating residual treatment trains include:
 - Operational and maintenance requirements
 - Ability to perform given existing sewer systems limitations
 - Discharge water quality and quantity
 - Minimize odour, noise and truck traffic
 - Aesthetic concerns (footprint and building height)
 - Process robustness
 - Minimize chemical usage
 - Ability to recycle to head of the plant

Mitigation Measures

SHORT-TERM CONSTRUCTION IMPACTS

Noise, dust, traffic, safety

- Temporary construction walls or fencing around construction areas will be provided to minimize noise, dust, mud and visual impacts.
- Construction will adhere to local noise by-laws.
- Health and safety is a priority to the Region. All construction will adhere to strict safety guidelines.

WATER QUALITY/QUANTITY

During expansion of the plant

- Halton Region uses advanced technology to provide safe and clean drinking water that meets or exceeds provincial standards.
- The expansion will increase the amount of clean and safe drinking water and will not affect the quantity or quality of water currently provided.

AESTHETICS OF THE PLANT

Visual appearance to neighbours

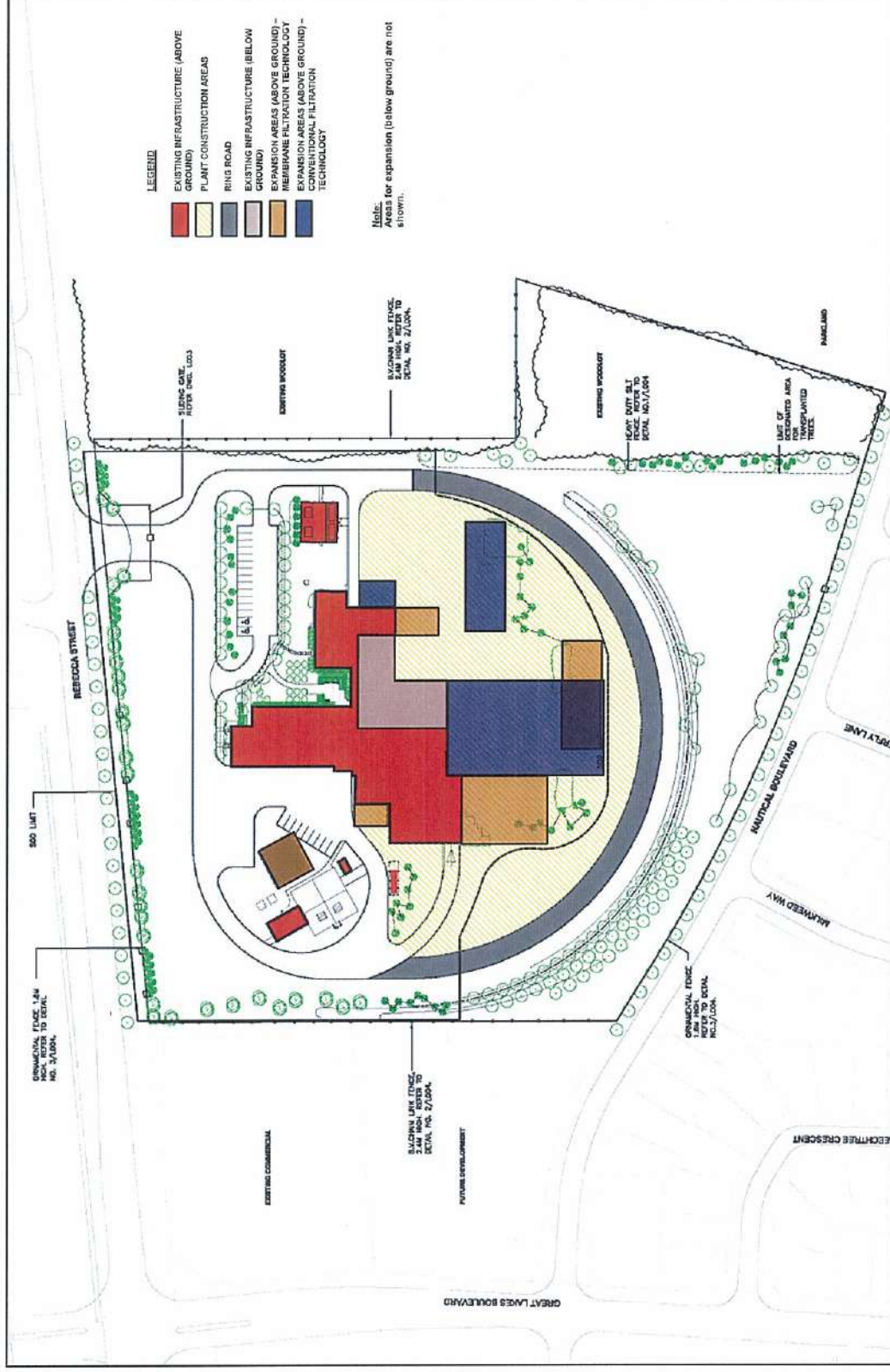
- Aesthetics of the expansion will be consistent with current look of the plant and the character of the surrounding areas.
- The landscape design will minimize as much as possible visual disturbances.

CONSULTATION

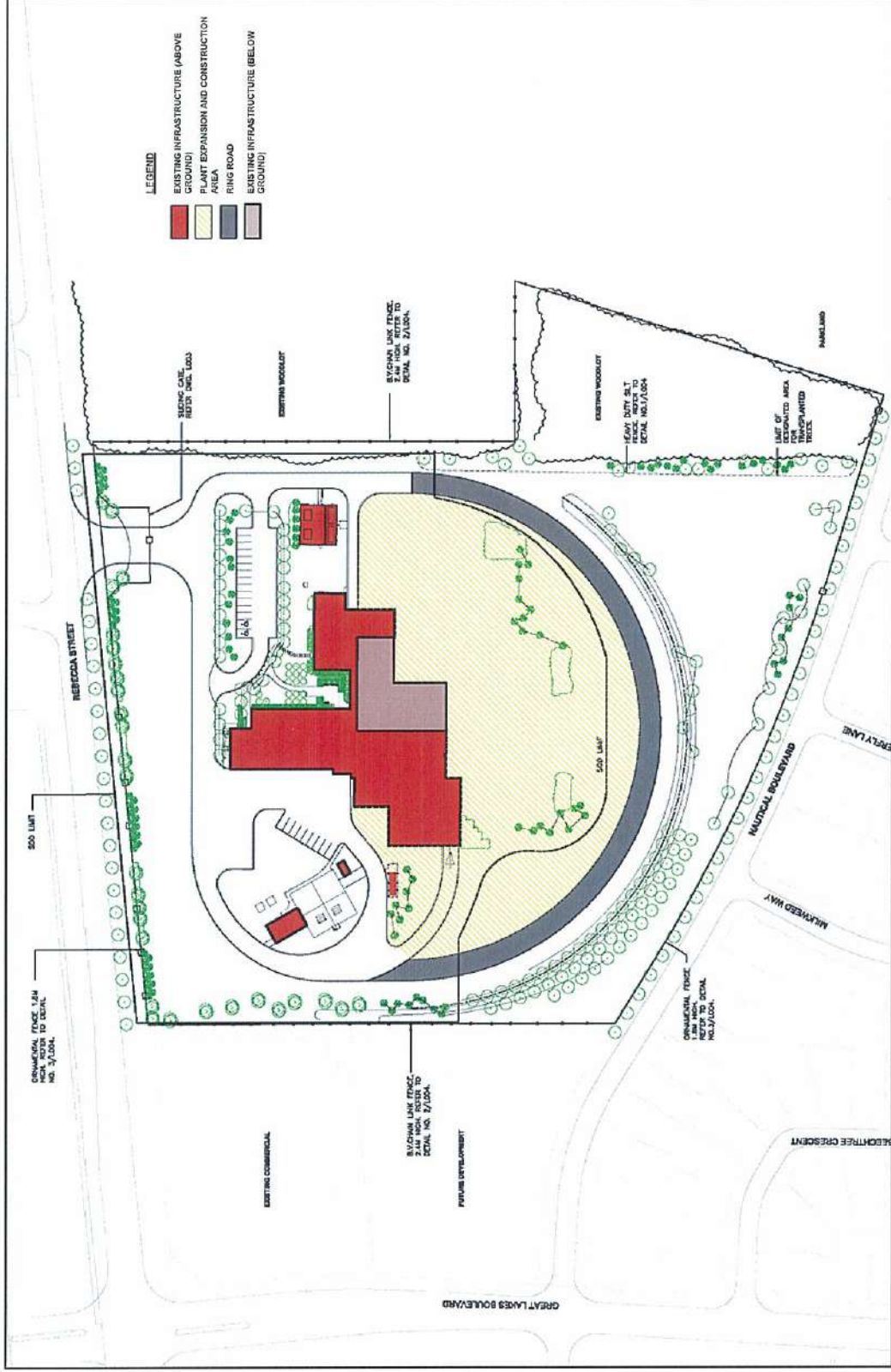
During Class EA study, detailed design and construction of the plant

- Special attention and consultation will be given to neighbouring residents and local business owners.

Burloak WPP Phase 2 – Expansion and Construction Areas



Burloak WPP Phase 2 – Expansion and Construction Areas



B.3 Public Information Centre No. 2



November 16, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Tel: 905-825-6000, ext. 7637
Fax: 905-825-0267
Email: teodor.kochmar@halton.ca

Dear Resident/Property Owner:

RE: Notice of Public Information Centre – Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, Our File: PR-2581A

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

Date: Wednesday, November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in black ink, appearing to read "Teodor Kochmar".

Teodor Kochmar, P.Eng. PMP
Project Manager, Water Design and Construction
Regional Municipality of Halton
Telephone: 905-825-6000 ext. 7637
Email: Teodor.kochmar@halton.ca

A handwritten signature in blue ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.
Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

cc: Gary Carr, Halton Regional Chair
Tom Adams, Regional Councillor & Chair of the Planning & Public Works Committee
Paul Sharman, Regional Councillor, City of Burlington, Ward 5
Patrick Moyle, CAO, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Robert Burton, Mayor, Town of Oakville
Allan Johnston, Regional Councillor, Town of Oakville, Ward 1

Ralph Robinson, Town Councillor Town of Oakville, Ward 1
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region

The Regional Municipality of Halton

NOTICE OF PUBLIC INFORMATION CENTRE #2

Municipal Class Environmental Assessment for Phase 2 Expansion of the Burloak Water Purification Plant, Town of Oakville

The Study

Halton Region is undertaking a Class Environmental Assessment (Class EA) Study to increase capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

The Class EA Study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007).

The purpose of the Class EA study is:

1. To identify the preferred water treatment solution for increasing the plant capacity; and
2. To recommend the preferred treatment design concept for the expansion.

The Class EA study includes:

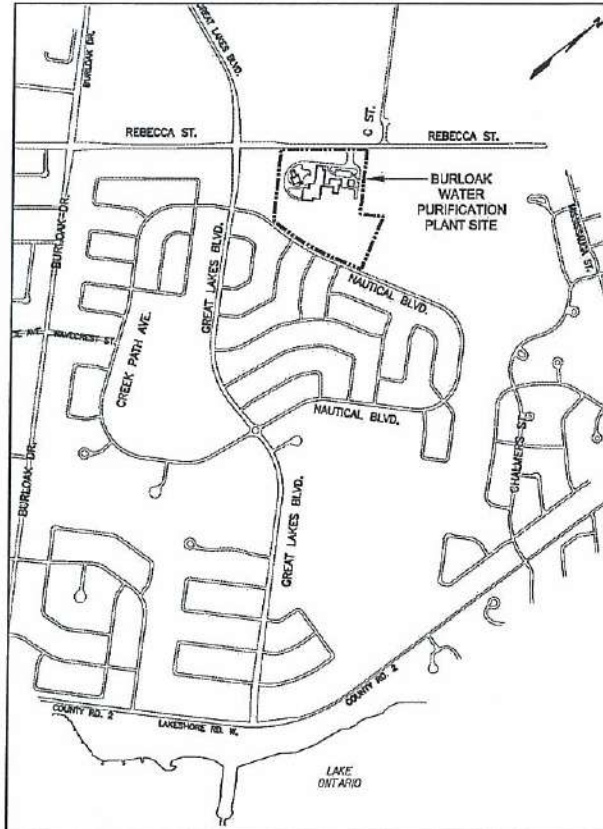
- Public and agency consultation;
- Evaluation of alternative treatment design concepts for the expansion;
- Assessment of the impacts of the proposed work; and
- Identification of measures to mitigate impacts. Technical, socio-cultural, natural environmental and economic issues will be considered during the assessment.

The Communication and Consultation Process

As part of the study, the first Public Information Centre (PIC) was held on April 28, 2011 to introduce the project, the preliminary treatment alternatives under consideration and the evaluation criteria to be used for the selection of the preferred treatment design concept for the expansion.

A second PIC is scheduled for:

Date: November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street
(Parking available on site)



The purpose of the second PIC is to present the results of the evaluation process, introduce the preliminary preferred treatment design concept for the expansion, and the next steps in the study. You are encouraged to attend the PIC and provide comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended treatment design concept for the plant expansion as well as the mitigation measures. Staff members from Halton Region and the consultant's team will be available to provide details on the project and discuss your comments.

If you are unable to attend, we would still like to hear from you. Please contact either of the project team members listed below if you have any questions or comments, wish to obtain more information on the project, or would like to be included on the project contact list:

Teodor Kochmar, P.Eng. PMP
Project Manager
Halton Region
1151 Bronte Road
Oakville, Ontario L6M 3L1
Telephone: 905-825-6000 ext. 7637
Fax: 905-825-8822
Teodor.kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

With the exception of personal information, all comments will become part of the public record. Additional information related to the study and consultation process may be obtained through the study website: www.halton.ca/EAs.



Burloak Water Purification Plant Frequently Asked Questions November 2011

Q: What stage is the existing water purification plant at? Is it up and running?

A: The existing Burloak Water Purification Plant (WPP) started purifying 55 ML of drinking water a day in the spring 2009 -- that's the same amount as 22 Olympic-size swimming pools. It currently purifies water to serve the populations of Burlington, Milton, Oakville and the Halton Hills 401 corridor.

Q: Why is this expansion required?

A: The Burloak Water Purification Plant provides safe and clean drinking water for the residents of Halton Region. The expansion of the facility is required to satisfy the anticipated water demand projections for Burlington, Milton, Oakville and Halton Hills.

Q: When will this plant expansion be complete?

A: It is expected that the plant expansion will be completed by 2019.

Q: When will construction start? How long do you expect the construction to take?

A: The design of the expansion and the related approvals are anticipated to take until the end of 2015. Construction will probably start in 2016 in order to be completed by 2019.

Q: Can I expect any further construction on the Burloak WPP after this expansion?

A: Yes, the facility is scheduled for a multi-phase expansion. The upcoming work is phase 2. Each phase will undergo a Municipal Class Environmental Assessment.

Q: What will the new expansion look like?

A: The facility will be designed to tie-in with the existing building and the look and feel of the neighbourhood. The expansion will be on the existing property.

Q: How much closer will the expansion be to the houses on the south?

A: It is anticipated that most of the expansion will occur on the south of the property. The new buildings required for the expansion will be contained within the existing site with a landscaped area between the buildings and the houses on the south. The proposed new buildings have been shown in the panels presented at

the second Public Information Centre, based on a conceptual layout. Please note, this layout is preliminary and may change during the detailed design phase.

Q: I live in the area. What type of disruptions can I expect?

A: As with any construction project, you can expect some amount of noise and dust. Halton Region will address possible dust and noise impacts through implementation of dust control efforts and adhering to the Town of Oakville Noise By-law to minimize noise disruption. Construction activities, including noise and truck traffic, will normally be limited to between 7 a.m. and 7 p.m., however may extend after hours if required. There will be trucks moving in and out of the facility during the construction phase. These trucks will be entering and exiting on Rebecca Street and will not use the residential streets for access. For any construction requiring roadway work, a traffic control plan, including traffic measures and use of traffic control signs, will be prepared to the satisfaction of the Region prior to commence construction.

Q: I have small children and I am concerned about safety during the construction period.

A: Health and safety is a priority for Halton Region. Most of construction activities will be contained within the fenced area of the site; however, trucks will avoid residential streets and use back up alarm systems to signal. All contractors will adhere to strict safety guidelines.

Q: Where is the money for the expansion coming from?

A: In keeping with Halton Region's practice that new growth should pay for itself, the costs for the expansion are being paid through development fees, not taxpayers' money.

Q: Will there be any economic benefits to the community from this expansion?

A: Yes. There will be indirect economic benefits to the community through an increased tax base. The expansion is needed to meet the needs of new residential and employment land development.

Q: What impact will the expansion of the water purification plant have on the environment?

A: Other than temporary construction impacts, there are no major environmental impacts anticipated from this project. Mitigation measures have been proposed to alleviate any potential impacts resulting from implementation of this project.

Q: Will there be increased noise after the expansion has been completed?

A: No. The expansion of the Burloak WPP will not generate additional noise. The plant is designed to meet all Ministry of the Environment requirements for noise emissions.

Q: Will this expansion affect property values?

A: In cases where facilities are close to residential areas, it is our practice to integrate them into the existing neighbourhood and ensure that comprehensive landscape designs minimize visual disturbances. As such, it has been our experience that property values are not affected by the proximity of infrastructure facilities.

Q: I have a business in the adjacent plaza. I am concerned that the truck traffic may impact my business.

A: There will be trucks moving in and out of the facility during the construction phase. These trucks will be entering and exiting on Rebecca Street and will not use the residential streets for access. Trucks will not be stationary and will not obstruct the entrance way to the plaza. We anticipate that during this time, it will be 'business as usual' for plaza occupants and users.

Q: Will the water quality/quantity be affected during or after the expansion?

A: No. Construction activities will be coordinated to minimize disruption with the current operation of the plant and ensure an uninterrupted supply of water. Halton Region uses state-of-the-art technology to provide safe and clean drinking water that meets or exceeds Ontario Ministry of the Environment standards. The expansion will increase the amount of clean and safe drinking water that is produced and will not affect the quality.

Q: Should we be concerned about any air emissions generated by the expanded plant?

A: No. Halton Region will ensure that all regulatory approvals as set out by the Environmental Protection Act are met or exceeded.

Q: What has happened since the last Public Information Centre held in April 2011?

A: After the last Public Information Centre (PIC), the project team proceeded to develop and evaluate alternative treatment options based on the feasible treatment technologies and evaluation criteria presented at the first PIC. The results of the evaluation process identified the preliminary preferred design concept for the expansion of the plant, which is being presented at the second PIC. The preliminary preferred design concept will be confirmed based on input received from this second PIC.

Q: Is there an opportunity to provide input to the project?

A: Yes! Through this EA process, Halton Region wants to partner with the community to make sure everyone's perspective is heard and valued before any final decision is made. There are a number of ways to provide input including:

- email or phone to Halton Region's Project Manager or the Consultant's Project Manager
- submitting a PIC Comment Sheet



- writing a letter to the project team
- sending us your comments through our website

With the exception of personal information, all input to the project will be documented and become part of the official record.

Q: What are the next steps in the process?

A: The preliminary preferred design concept will be confirmed based on comments received from this PIC. An Environmental Study Report (ESR) documenting the planning process for this project will be prepared and made available for public review for a period of 30 days. A Notice of Project Completion will be filed in the local newspapers in Spring 2012, indicating the completion of the ESR and the locations where the ESR will be available for review.

If concerns regarding this project cannot be resolved in discussions with the Region, a person or party may request that the Minister of the Environment make an order for the project to comply with a Part II Order. Request for a Part II Order must be made during the 30-day review period. If no request is received, the Region intends to proceed with construction as outlined in the ESR.

Q: Will neighbours and area businesses be able to give input into what the expansion should look like?

A: Yes! When working on the architectural concepts for the expansion, we will work with our neighbours and area businesses to make sure they have a chance to comment.

Q: Who do I contact if I have a comment or questions or want to be kept informed?

A: Contact Halton Region by:

- dialing 311 or 905-825-6000 or
- toll free 1-866-442-5866 (1-866-4HALTON).

You can also contact Teodor Kochmar, Project Manager, Water Design and Construction, Halton Region at 905-825-6000, ext. 7637 or Oya Koc, Project Manager, AECOM, at 905-712-6998.

You can also go online to www.halton.ca/EAs or www.halton.ca/construction and follow the links to the Burloak Water Purification Plant EA Study to fill out an online comment form.

COMMENT SHEET

Municipal Class Environmental Assessment Study Burloak Water Purification Plant Phase 2 Expansion

Public Information Centre No. 2
November 30, 2011

Halton Region is interested in hearing any comments, questions or concerns that you may have regarding the proposed Burloak Water Purification Plant expansion. Please take some time to complete this Comment Sheet. All comments will be carefully considered in the Class Environmental Assessment Study. Please drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **December 16, 2011**:

Teodor Kochmar, P.Eng. P.M.P.
Project Manager, Water Design and Construction
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario L6M 3L1

Telephone: 905-825-6000 ext. 7637
Fax: 905-825-0267
Teodor.kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario L5R 3E9

Telephone: 905-712-6998
Fax: 905-501-0181
Email: Oya.koc@aecom.com

1. Did you have enough opportunity to ask questions, make comments or express concerns?

Yes ☐ No ☐

2. Where those questions answered to your satisfaction?

Yes ☐ No ☐

3. Do you have any comments, concerns, questions or suggestions regarding the treatment options evaluated under this study?

4. Do you have any comments, concerns, questions or suggestions regarding the preliminary preferred treatment design concept being recommended for the expansion of the plant?

5. Do you have any comments, concerns, questions or suggestions regarding the conceptual layout of the plant site?

6. What impacts will this project have on you? and, what mitigation measures would you recommend to be considered during construction of this project?

ADDITIONAL COMMENTS:

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME:

(please print)

ADDRESS:

POSTAL CODE:

PHONE:

(day)

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

☐ Newspaper ad

☐ Notice in mail

☐ Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	_____	_____
Time of Meeting	_____	_____
Day of the Week	_____	_____

On a scale from 1 to 5, where “1” is “very” and “5” is “not at all”, please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very		Somewhat		Not at all
1	2	3	4	5

b) How helpful were the staff and consultants in attendance?

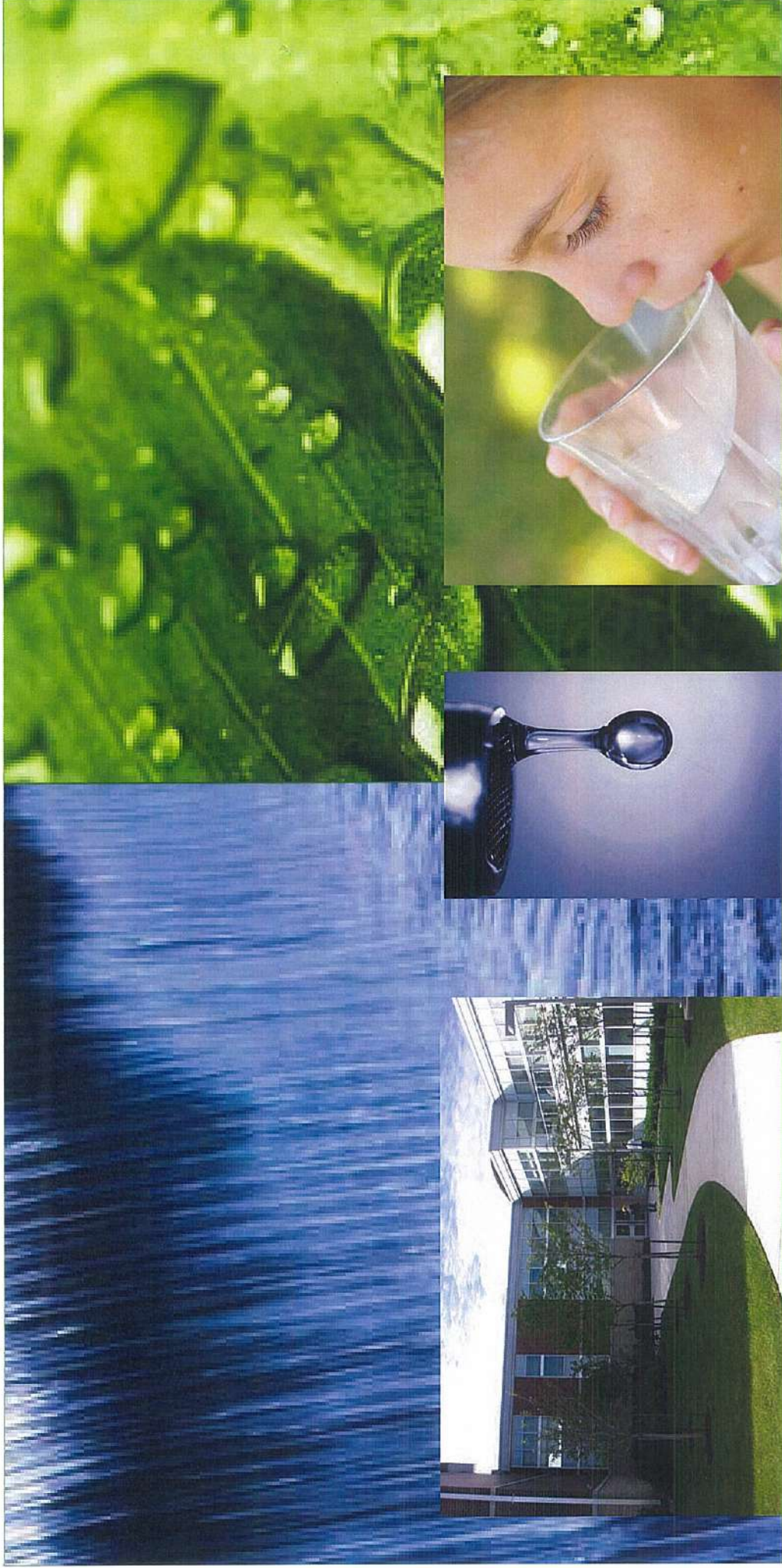
Very		Somewhat		Not at all
1	2	3	4	5

Were all your questions answered satisfactorily?

☐ Yes

☐ No

Other Comments:



Serving our Communities and our Environment



Class Environmental Assessment for
Burloak Water Purification Plant
Phase 2 Expansion
Public Information Centre No.2

Welcome

Class Environmental Assessment Burloak Water Purification Plant Phase 2 Expansion Public Information Centre No.2

- Please sign in on the sheet provided.
- Please review display materials.
- Our representatives will be pleased to discuss the study and the process with you, or any questions or concerns that you may have.
- Comment sheets are provided. Please complete the comment sheet and drop it in the Comment Box tonight, or return it to the contact people shown on the comment sheet by **December 16, 2011**.

Why are we here tonight?

- Halton Region is undertaking a Schedule “C” Municipal Class Environmental Assessment (Class EA) study to select the preferred treatment design concept for the expansion of the Burloak Water Purification Plant (WPP), in the Town of Oakville.
- The expansion of the existing Burloak WPP is necessary to satisfy Halton’s projected water demands.
- Public participation is an integral part of the Class EA study process. We encourage you to review the information presented tonight and provide us with any comments or concerns which you may have.

Overall Objective of this Class EA Study

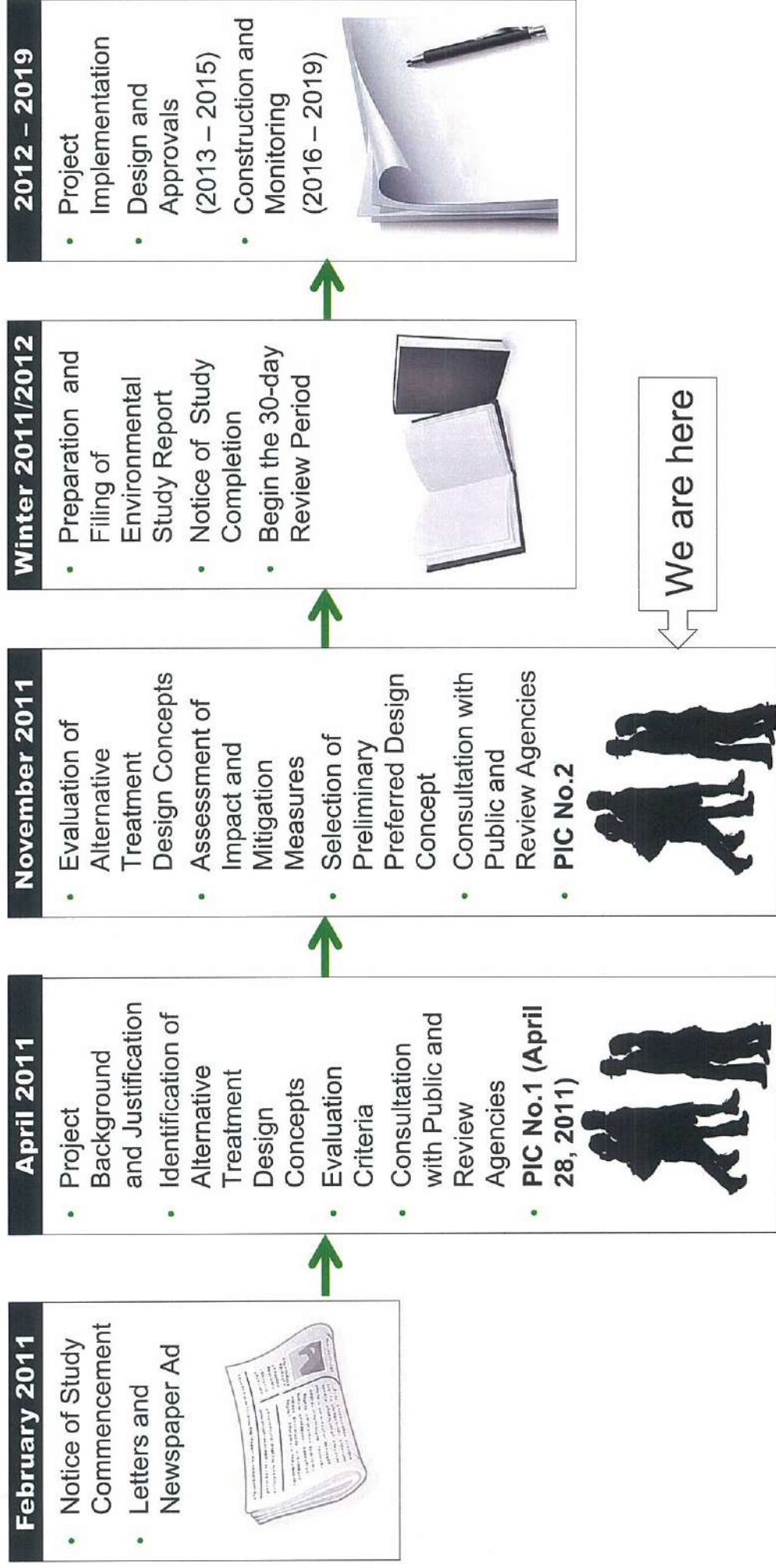
- The ongoing Sustainable Halton Master Plan has estimated that the Burloak WPP will need to be expanded in phases in order to satisfy the water demand projections.
- The overall objective of this Class EA study is to select the preferred treatment design concept for the next expansion of the Burloak WPP.
- The preferred treatment design concept should be sustainable, technically and environmentally sound and economically mindful in terms of capital and operating costs.



Objectives of this Public Information Centre

- To present:
 - *treatment options considered for the proposed expansion of the plant*
 - *the results of the evaluation process*
 - *the preliminary preferred treatment design concept for the expansion of the plant*
 - *the potential anticipated impacts associated with the proposed expansion and proposed mitigation measures*
- To receive comments from the public and interested review agencies about the preliminary preferred treatment design concept

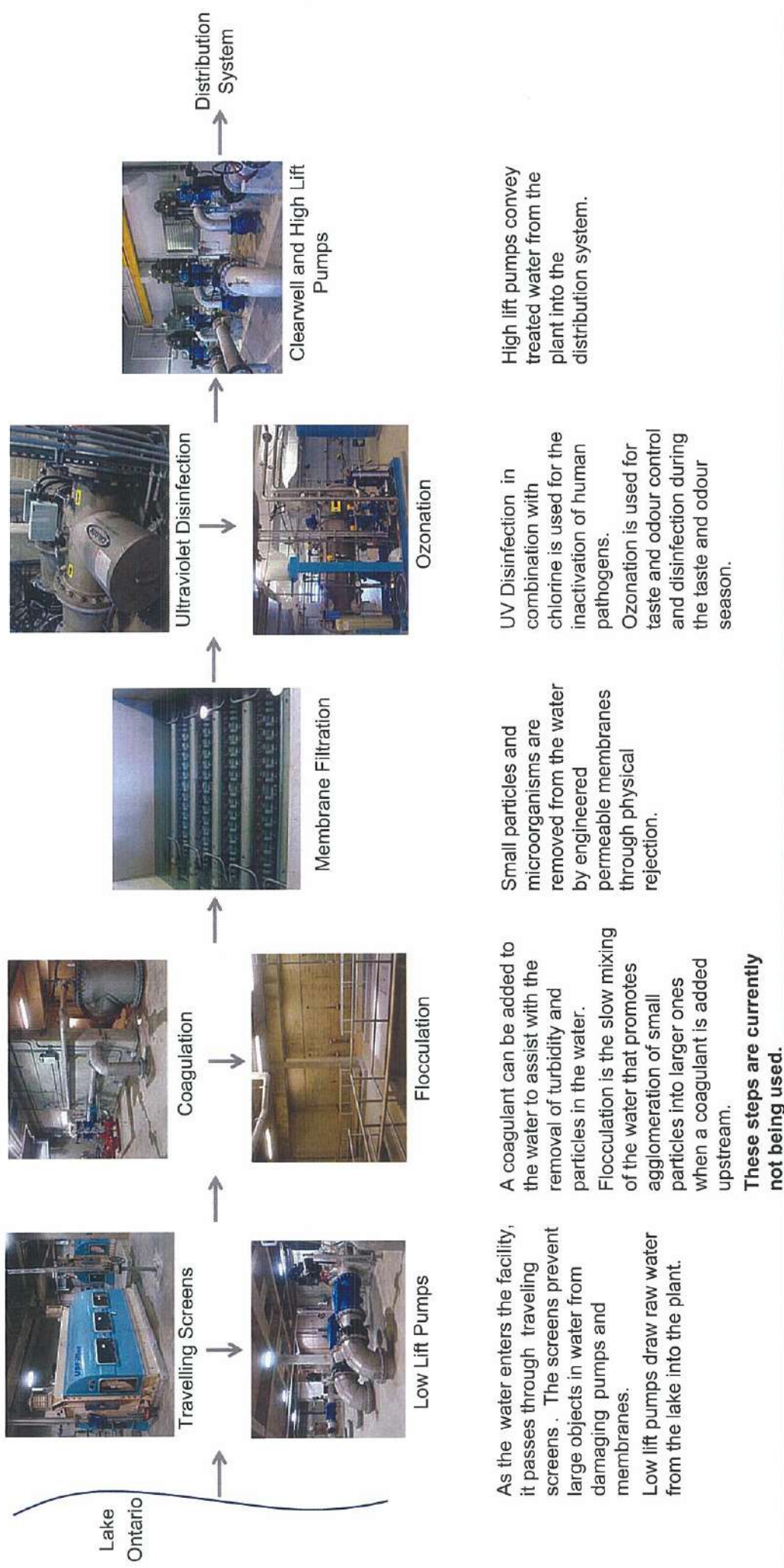
Overview of Activities under the Class Environmental Assessment Process



Treatment Design Concept Selection for the Proposed Expansion

- The main steps in developing and evaluating alternative treatment options were:
 - **Step 1:** Develop water quality treatment objectives for the proposed expansion.
 - **Step 2:** Develop a long list of treatment technologies available.
 - **Step 3:** Develop preliminary screening criteria and short list only those technologies that are feasible for this project and eliminate unrealistic options.
 - **Step 4:** Develop treatment options based on a short-list of feasible treatment technologies.
 - **Step 5:** Develop detailed evaluation criteria and complete detailed evaluation of treatment options.
 - **Step 6:** Prepare a cost benefit analysis of each treatment option and select the preliminary preferred treatment design concept.
- Results from Steps 1 to 3 were presented at the first Public Information Centre held on April 28, 2011.
- Steps 4 to 6 have now been completed with results presented in the next panels.

How is the Water Treated at the Burloak WPP?

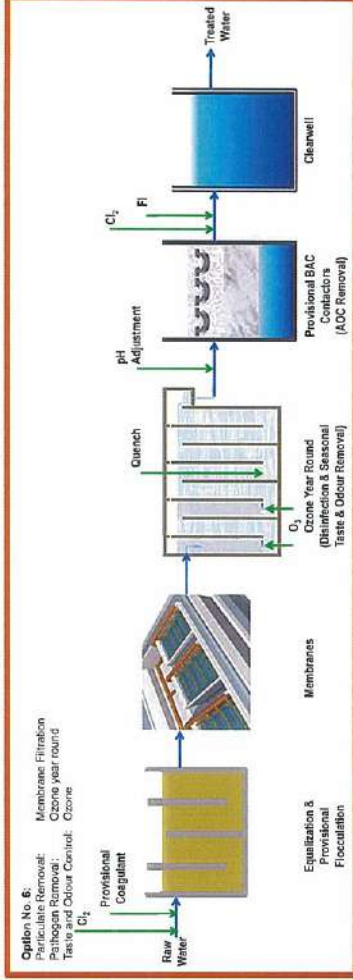
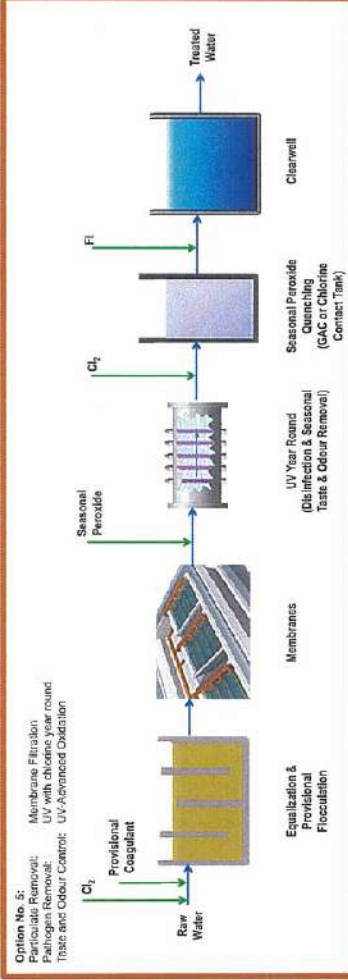
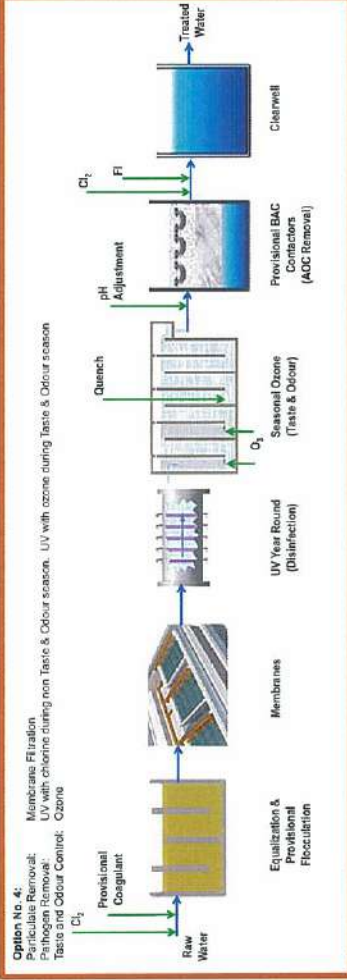
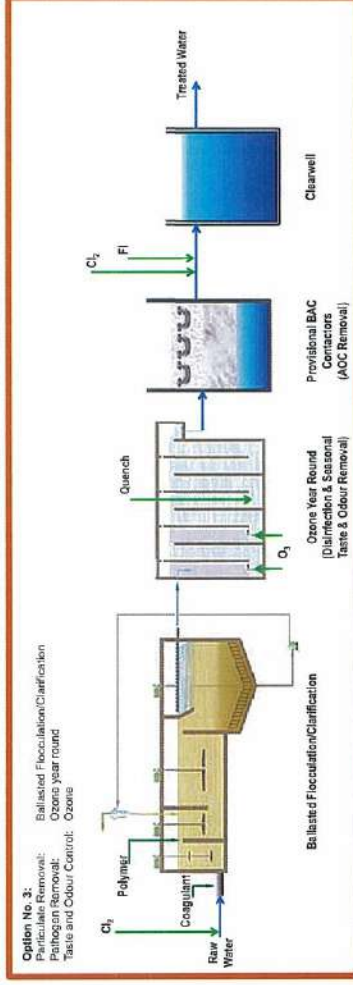
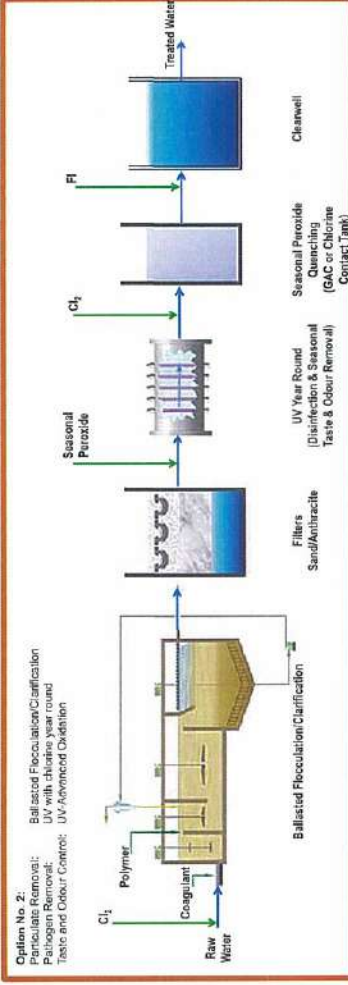
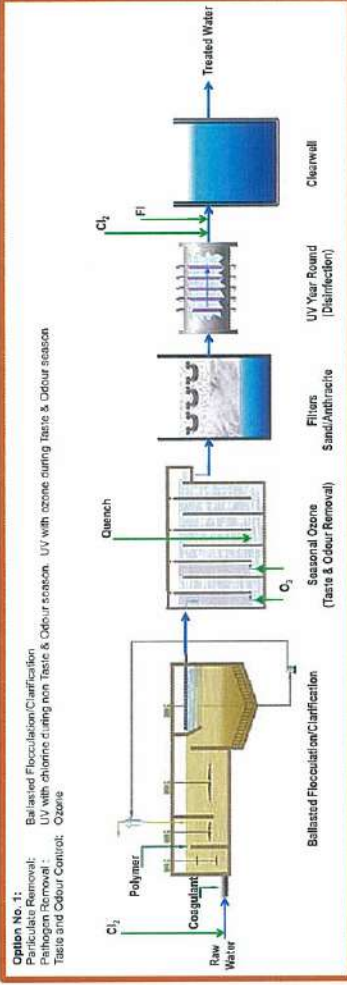


Development of Alternative Treatment Options

- A long list of treatment technologies was reviewed. Feasible technologies were short-listed for future consideration in the study.
- Alternative treatment options were developed using different combinations of the below short-listed technologies.

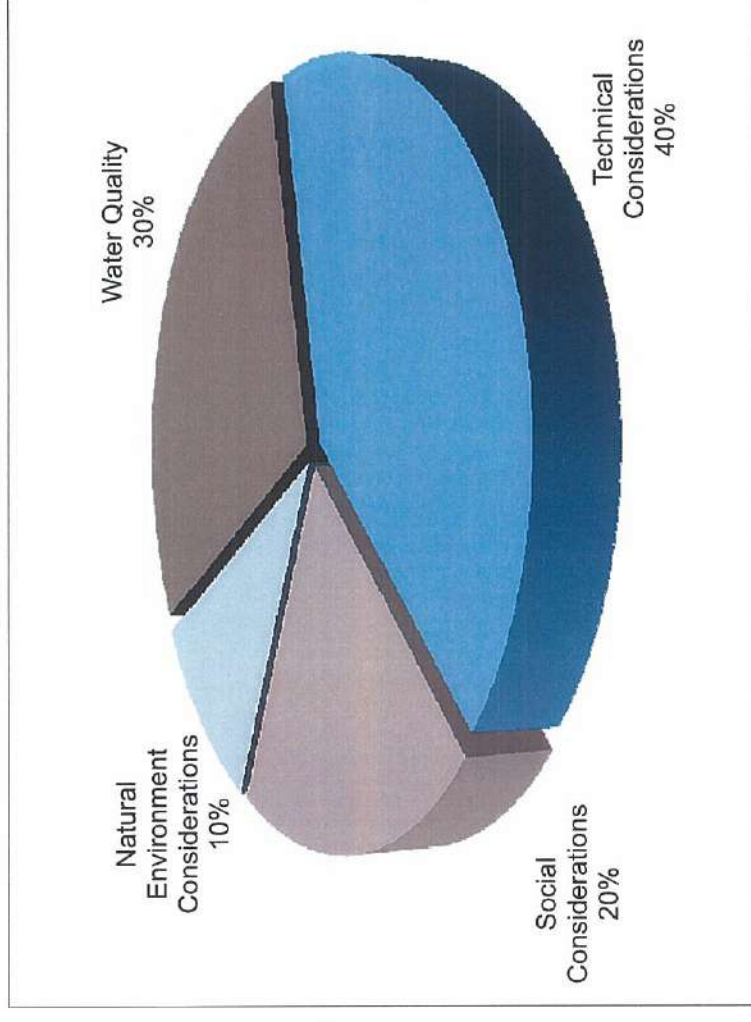
Treatment Purpose	Short-listed Treatment Technologies
MAIN WATER TREATMENT	
Particulate Removal	<ul style="list-style-type: none"> • Conventional Treatment (coagulation, ballasted flocculation/clarification & filtration) • Membrane Filtration
Pathogen Removal (Primary Disinfection)	<ul style="list-style-type: none"> • UV with Chlorine • Ozone
Taste and Odour Control	<ul style="list-style-type: none"> • Ozone • UV-Advanced Oxidation
RESIDUALS TREATMENT	
Clarification/Thickening	<ul style="list-style-type: none"> • Plate Settlers Clarification/Thickening • Dissolved Air Flotation (DAF) Clarification/Thickening
Dewatering/Drying	<ul style="list-style-type: none"> • Centrifuges • Belt Filter Presses
Membrane Filtration	<ul style="list-style-type: none"> • Secondary Membrane Filtration

Main Water Treatment Process – Alternative Treatment Options



Detailed Evaluation of Main Water Treatment Options (1 of 2)

- Main criteria and sub-criteria were developed for detailed evaluation of main water treatment options.
- Main criteria were categorized in 4 groups:
 - Technical Considerations 40%
 - Water Quality 30%
 - Social Considerations 20%
 - Natural Environment 10%
- Sub-criteria describing specific aspects of the main criteria were developed (Shown in next panel)
- Weights were assigned to all criteria relative to its degree of importance.
- Each treatment option was evaluated against each criterion and scored based on its ability to meet the criterion. All treatment options were evaluated relative to each other.



A total benefit score and life cycle costs were calculated for each treatment option.

A benefit to cost ratio was calculated to identify the option that provides the highest benefit per dollar spent.

Detailed Evaluation of Main Water Treatment Options (2 of 2)

Main criteria and sub-criteria used in the evaluation of main water treatment options included:

Technical Considerations:

- Compatibility with existing system
- Flexibility for expansion
- Operation and maintenance requirements
- Process complexity
- Proven track record
- Safety requirements
- Ability to maximize ultimate site capacity/Compatibility with existing site
- Ease of implementation
- Process robustness and redundancy

Natural Environmental Considerations:

- Minimize on-site air emissions
- Minimize residuals impacts

Water Quality Considerations:

- Pathogen control
- Minimize Disinfection By-Products and Organics removal
- Water stability in distribution system
- Minimize aluminum residuals
- Flexibility to respond to Emerging Contaminants
- Ability to meet Aesthetics Objectives
- Flexibility to comply with future objectives
- Flexibility to respond to variable raw water quality

Social Considerations:

- Minimize footprint and site impacts /architectural aesthetics
- Minimize truck traffic (construction and operation)
- Minimize noise
- Minimize odour

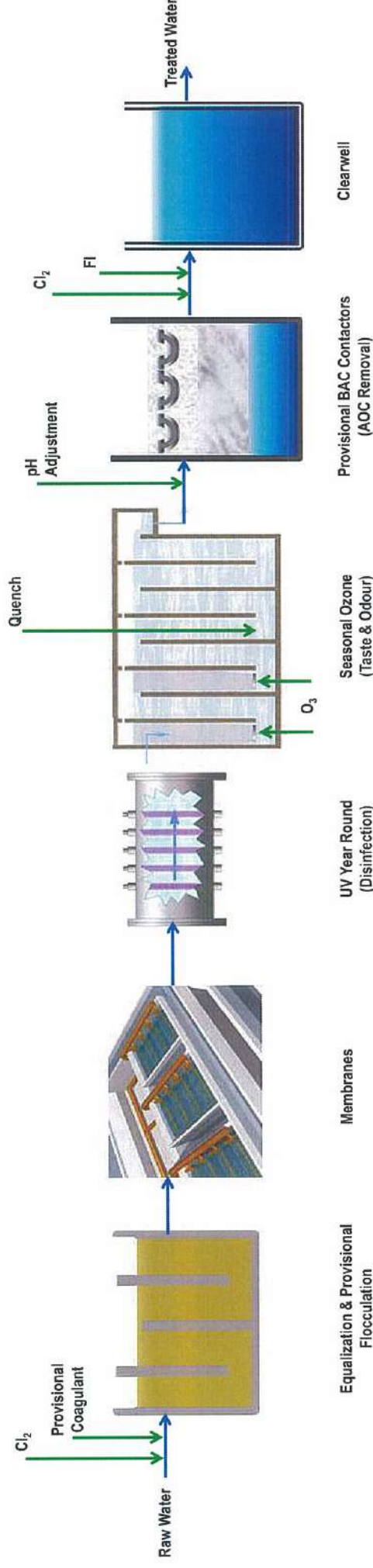
Preliminary Preferred Main Water Treatment Process

Option No. 4:

Particulate Removal: Membrane Filtration

Pathogen Removal: UV with chlorine during non Taste & Odour season. UV with ozone during Taste & Odour season

Taste and Odour Control: Ozone

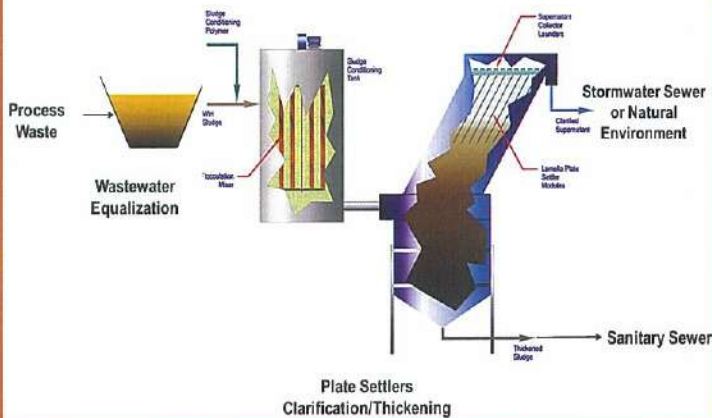


The main advantages of this treatment option are:

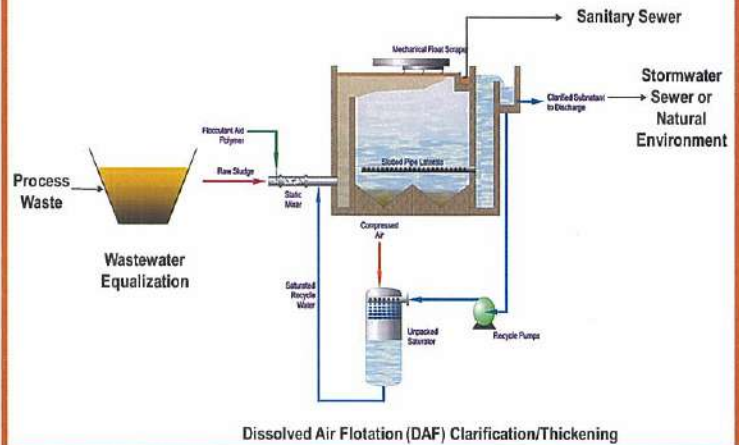
- Proposed treatment is identical to existing system so it provides the highest benefits from an operational perspective
- It makes the best use of existing infrastructure
- It requires small footprint compared to other options, resulting in low overall impact and ability to maximize ultimate site capacity
- Lowest impacts in terms of truck traffic, odours and noise during operation
- Lowest capital costs and low operational and maintenance costs

Residuals Treatment – Alternative Treatment Options

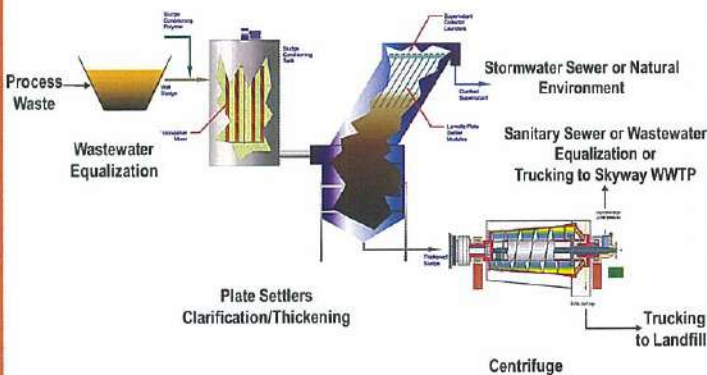
Option No. 1 – Equalization + Plate Settlers Clarification/Thickening



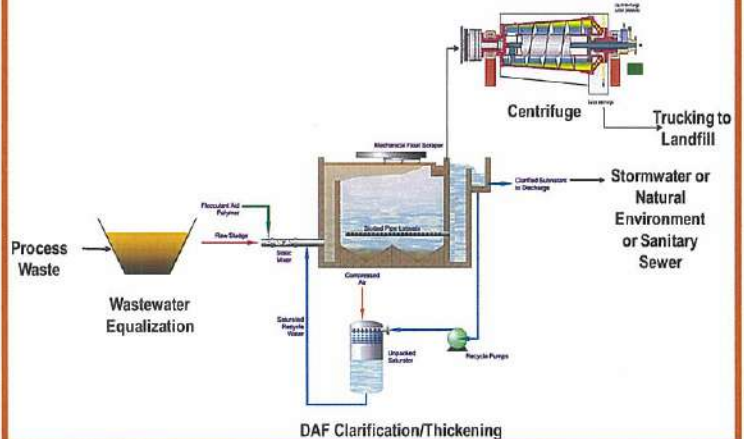
Option No. 2 – Equalization + DAF Clarification/Thickening



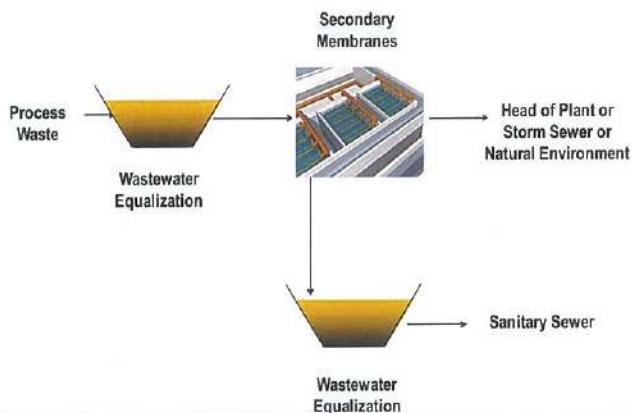
Option No. 3 – Equalization + Plate Settlers Clarification/Thickening + Centrifuges



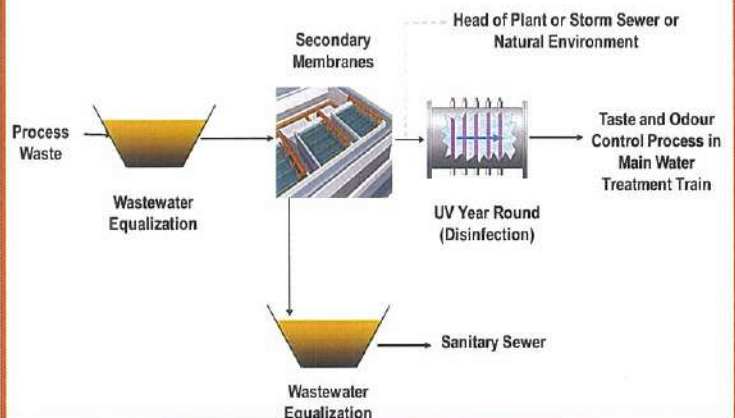
Option No. 4 – Equalization + DAF Clarification/Thickening + Centrifuges



Option No. 5 – Equalization + Secondary Membrane Filtration

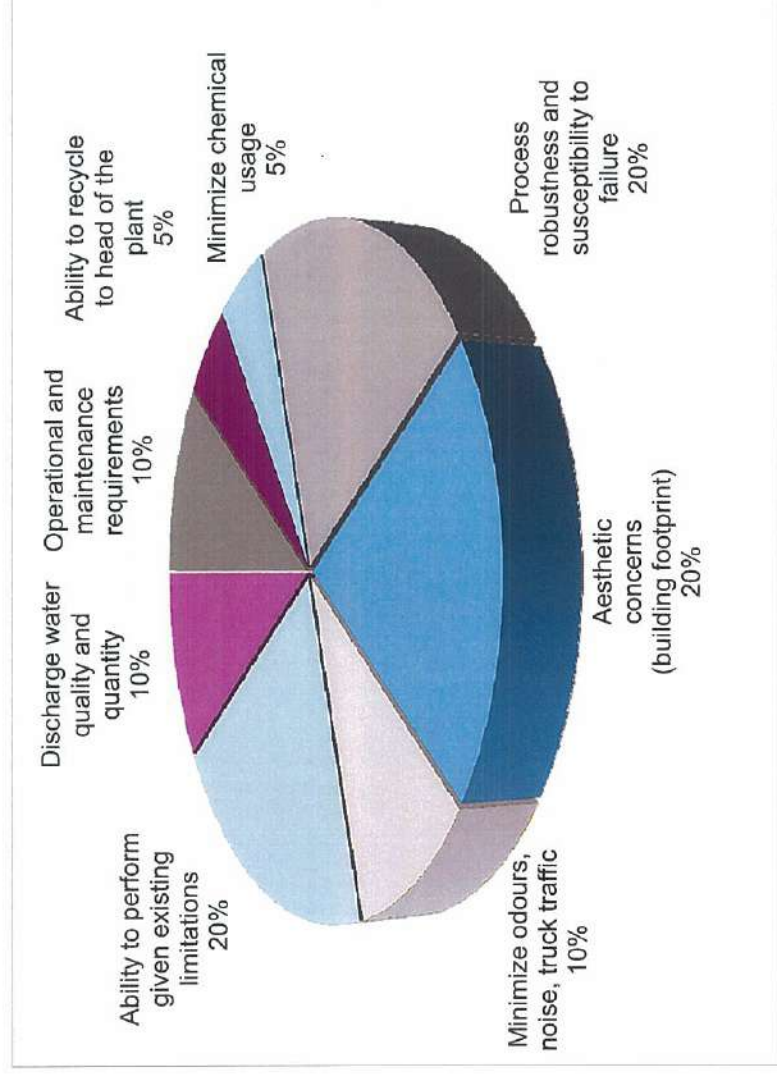


Option No. 6 – Equalization + Secondary Membrane Filtration + UV Disinfection with Discharge to Distribution System



Detailed Evaluation of Residuals Treatment Options

- Specific criteria were developed for detailed evaluation of residuals treatment options.
- Weights were assigned to each criterion, relative to its degree of importance.
- Each treatment option was evaluated against each criterion and scored based on its ability to meet the criterion. All treatment options were evaluated relative to each other.



A total benefit score and life cycle costs were calculated for each treatment option.

A benefit to cost ratio was calculated to identify the option that provides the highest benefit per dollar spent.

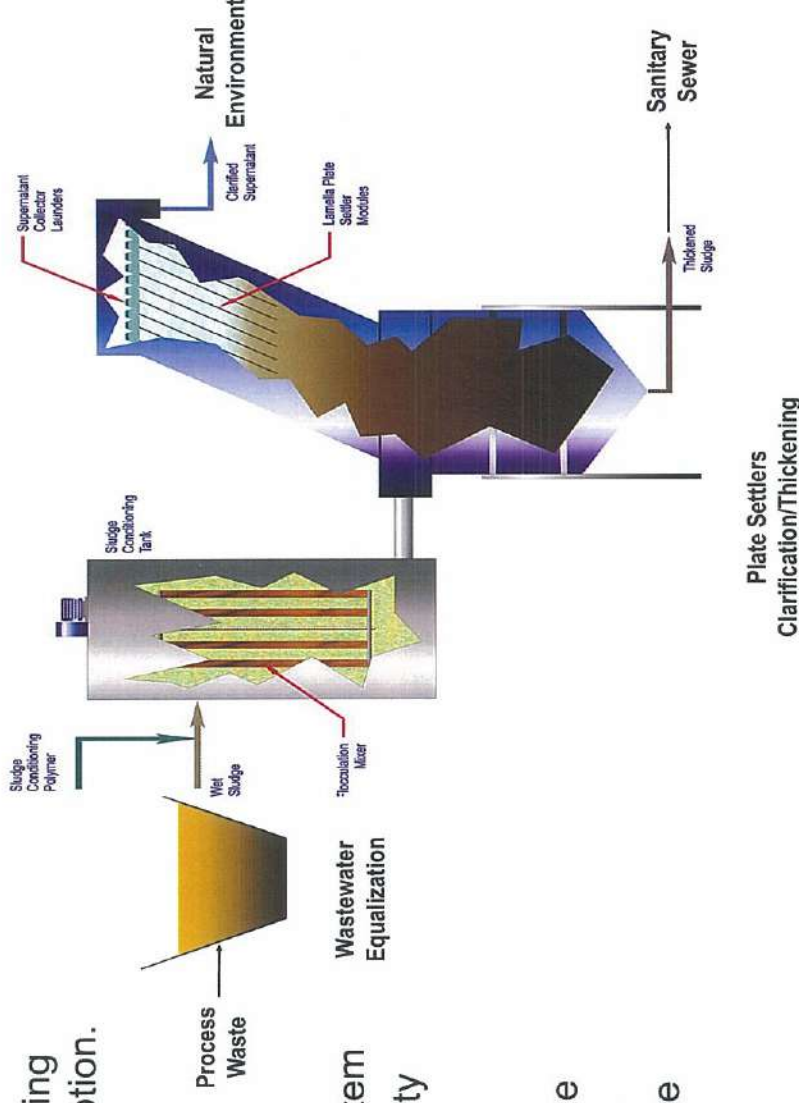
Preliminary Preferred Residuals Treatment Process

Option No.1:

Equalization + Plate Settlers Clarification/Thickening has been selected as the preliminary preferred option.

The main advantages of this option are:

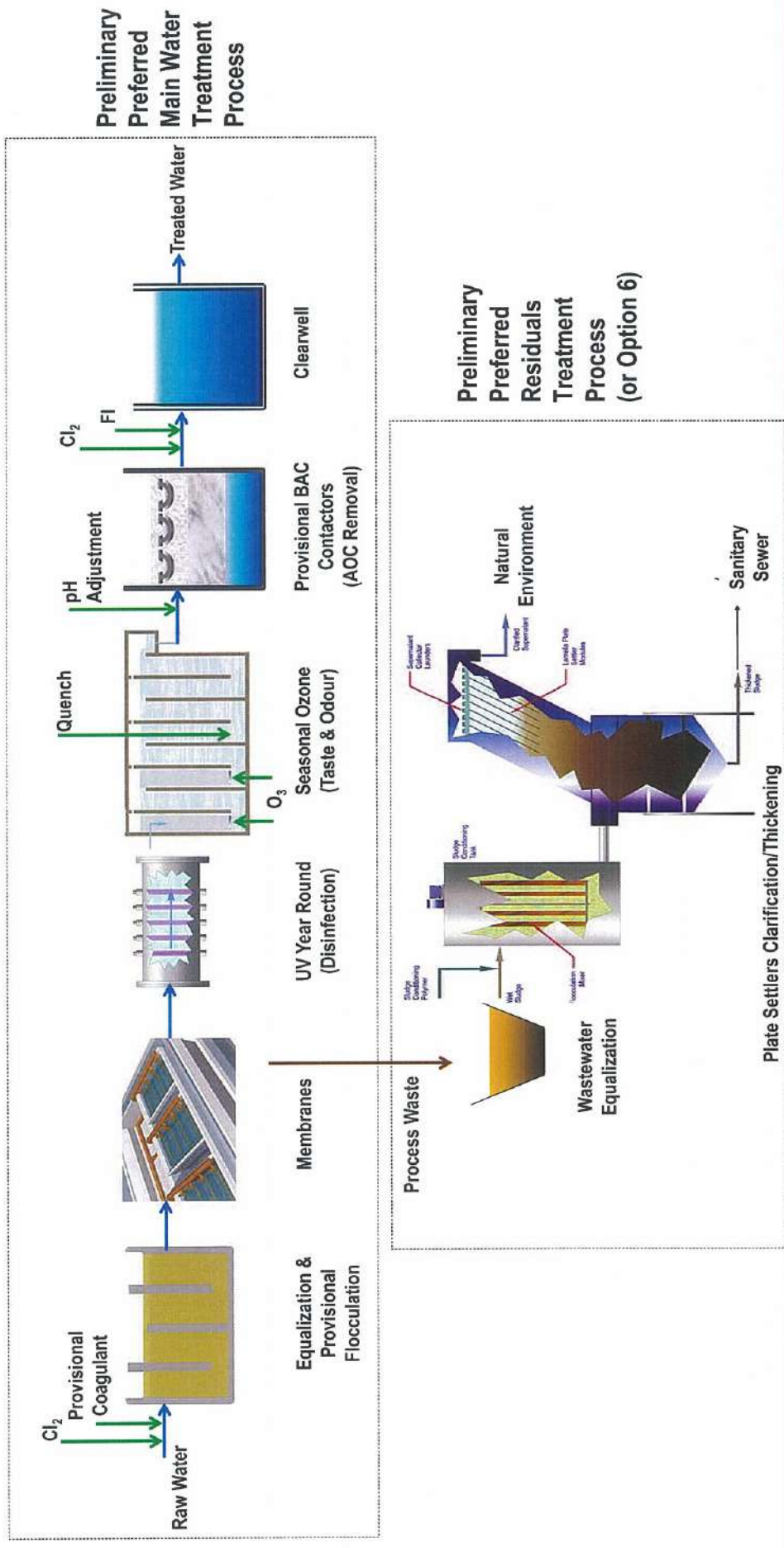
- Minimum operational and maintenance requirements
- Flexibility for operational changes in the system
- Relative simple process with low susceptibility for failure
- Minimal footprint requirements
- Eliminates the need to truck wastes out of the site
- Low capital and operational and maintenance costs



Options 1 and 6 share the same advantages. Option 1 is currently selected as the preliminary preferred residuals treatment process due to lower cost, however based on requirements from approval and regulatory agencies Option 6 may be selected instead at a later stage.

Burloak WPP Phase 2 – Preliminary Preferred Treatment Design Concept

The treatment design concept for the expansion of the plant combines the preferred main water treatment process and the preferred residuals treatment process.



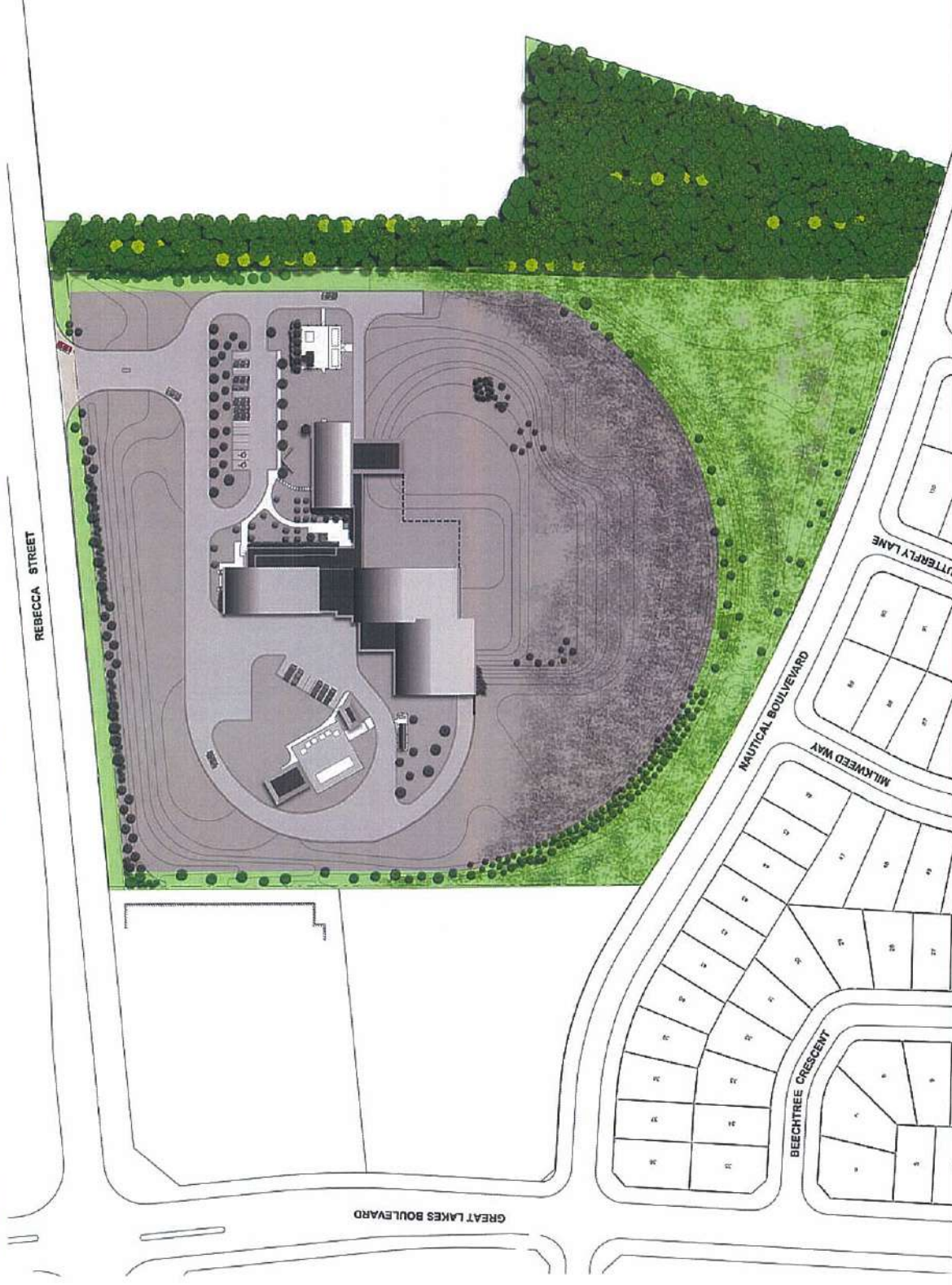
Existing Burloak WPP



Burloak WPP Phase 2 – Temporary Construction Areas



Burloak WPP Phase 2 – Build-Out Area



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Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.2
Panel No.20

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Burloak WPP Phase 2 – Conceptual Layout

(subject to change during design phase)



Anticipated Impacts and Proposed Mitigation Measures (1 of 2)

Impact

SHORT-TERM

CONSTRUCTION IMPACTS

Noise, dust, traffic, safety

Mitigation Measures

- Temporary measures will be undertaken during construction to minimize noise, dust, mud and visual impacts.
- Standard best practices for vehicle and pedestrian safety will be used throughout the construction areas.
- Construction will adhere to local noise by-laws.
- Truck access to and from the site will be limited to existing entrance off Rebecca Street to avoid residential areas.
- Dust control measures such as application of water or calcium chloride will be implemented as needed.
- Health and safety is a priority to the Region. All construction will adhere to strict safety guidelines.

PLANT AESTHETICS

Visual appearance to neighbours

- Aesthetics of the expansion will be consistent with current look of the plant and the character of the surrounding areas.
- Possible visual disturbances will be mitigated through landscape improvements.



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Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.2
Panel No.22

AECOM

Anticipated Impacts and Proposed Mitigation Measures (2 of 2)

Impact

NATURAL ENVIRONMENT

Water quality/quantity, disturbance to existing vegetation and existing ecosystems during expansion of the plant

CONSULTATION

During detailed design and construction of the plant

Mitigation Measures

- Halton Region uses advanced technology to provide safe and clean drinking water that meets or exceeds provincial standards.
- The expansion will increase the amount of clean and safe drinking water and will not affect the quantity or quality of water currently provided.
- Erosion and sediment control measures will be implemented inside and outside of the plant site to mitigate any impacts to surface water sources and the surrounding environment.
- A traffic control plan will be prepared to mitigate any potential traffic disturbance in the area during construction.
- The adjacent wood lot will be protected with a no construction zone.
- A contingency plan will be developed for cleaning up fuel spills, particularly when working in proximity to the creek areas.
- Erosion and water quality measures will be implemented to mitigate impacts to the East Sheldon Creek.

- Special attention and consultation will be given to neighbouring residents and local business owners.

Environmental Assessment – Next Steps

- **December 2011**
Receive comments from this Public Information Centre.
Confirm preliminary preferred treatment design concept for the expansion based on public input.
- **Winter 2012**
Prepare Environmental Study Report and file Report on public record for 30-day review period.
- **Early Spring 2012**
Conclusion of the Class EA study.

Thank you for your participation!



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.2
Panel No.24

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