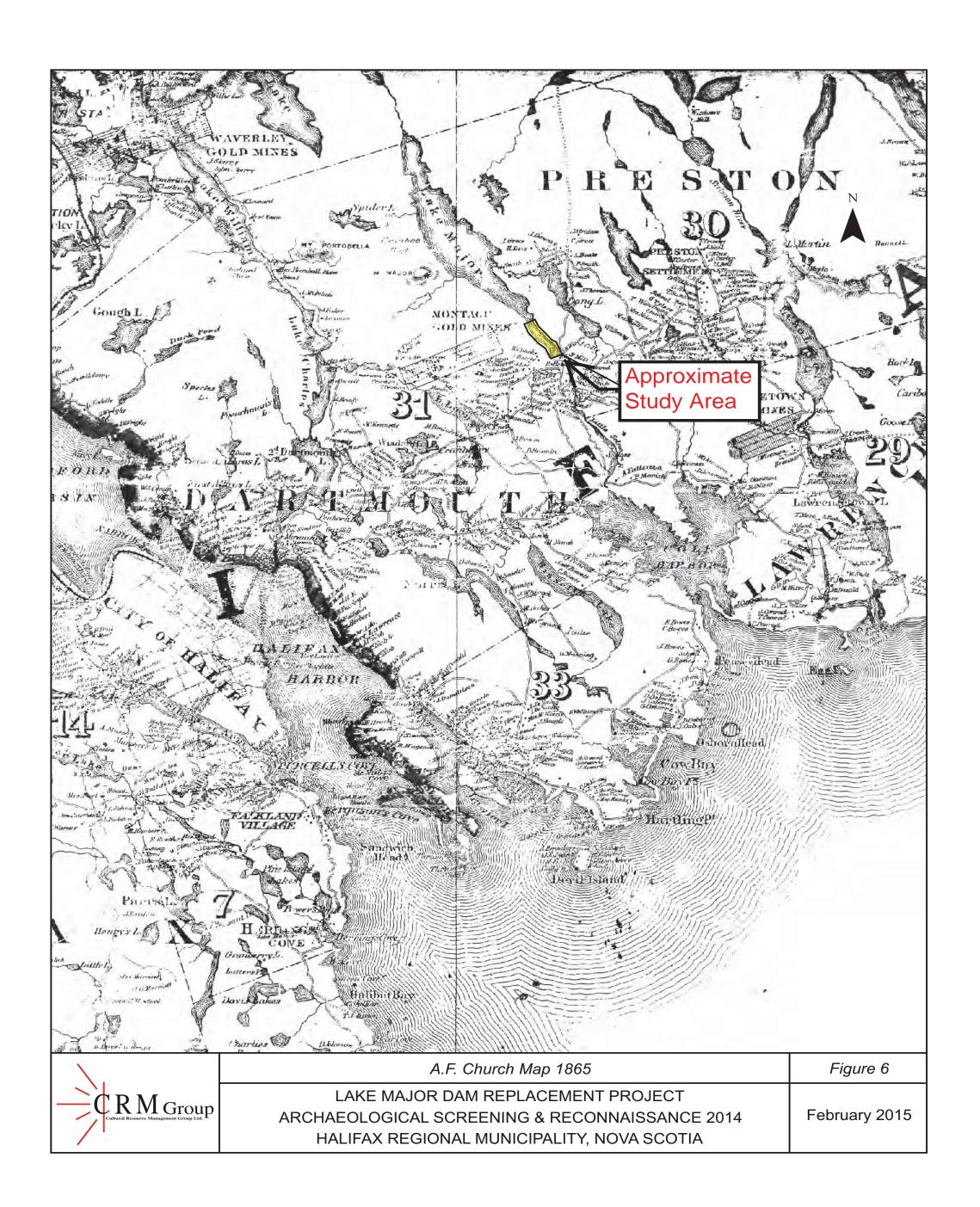
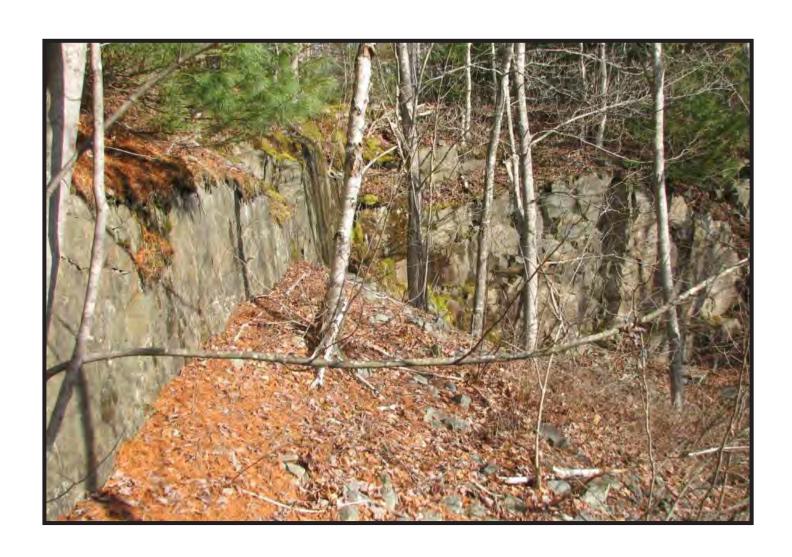


# LAKE MAJOR DAM REPLACEMENT

### ARCHAEOLOGY





EVIDENCE OF HISTORICAL QUARRY



RECONNAISSANCE INCLUDED AREAS
OF MODERN LAND USAGE

# ARCHAEOLOGICAL SCREENING AND RECONNAISSANCE

Archaeological screening was completed by the CRM Group to investigate the potential for encountering archaeological materials in the area of the replacement dam.

Completed on behalf of *Halifax Water and the Special Places Program* (through a Heritage Research Permit) of the Nova

Scotia Department of Communities, Culture and Heritage.

#### The work included:

- Archival research of land use history and ownership history including: Nova Scotia Archives, Department of Natural Resources, the Black Culture Centre for Nova Scotia and Crown Land Management Centre.
- Field reconnaissance, to conduct a visual inspection of the study area.
- Consideration of the environmental setting, water sources, topography, soils, vegetation and Native land use.
- Shovel testing of any potential impact areas was completed following the original study.

#### Results:

- The original study suggested an elevated potential for encountering precontact and/or early historic Native archaeological resources.
- Evidence of historical quarrying and milling was found.
- Very limited traces of Eurpoean pottery were noted but not considered significant. Otherwise no archaelogical resources were encountered.
- Recommendations will be made for the archeological clearance of all properties tested in the area of the dam.
- Further investigation will not likely be required unless construction excavation at the site reveals conditions contrary to the recently completed studies.



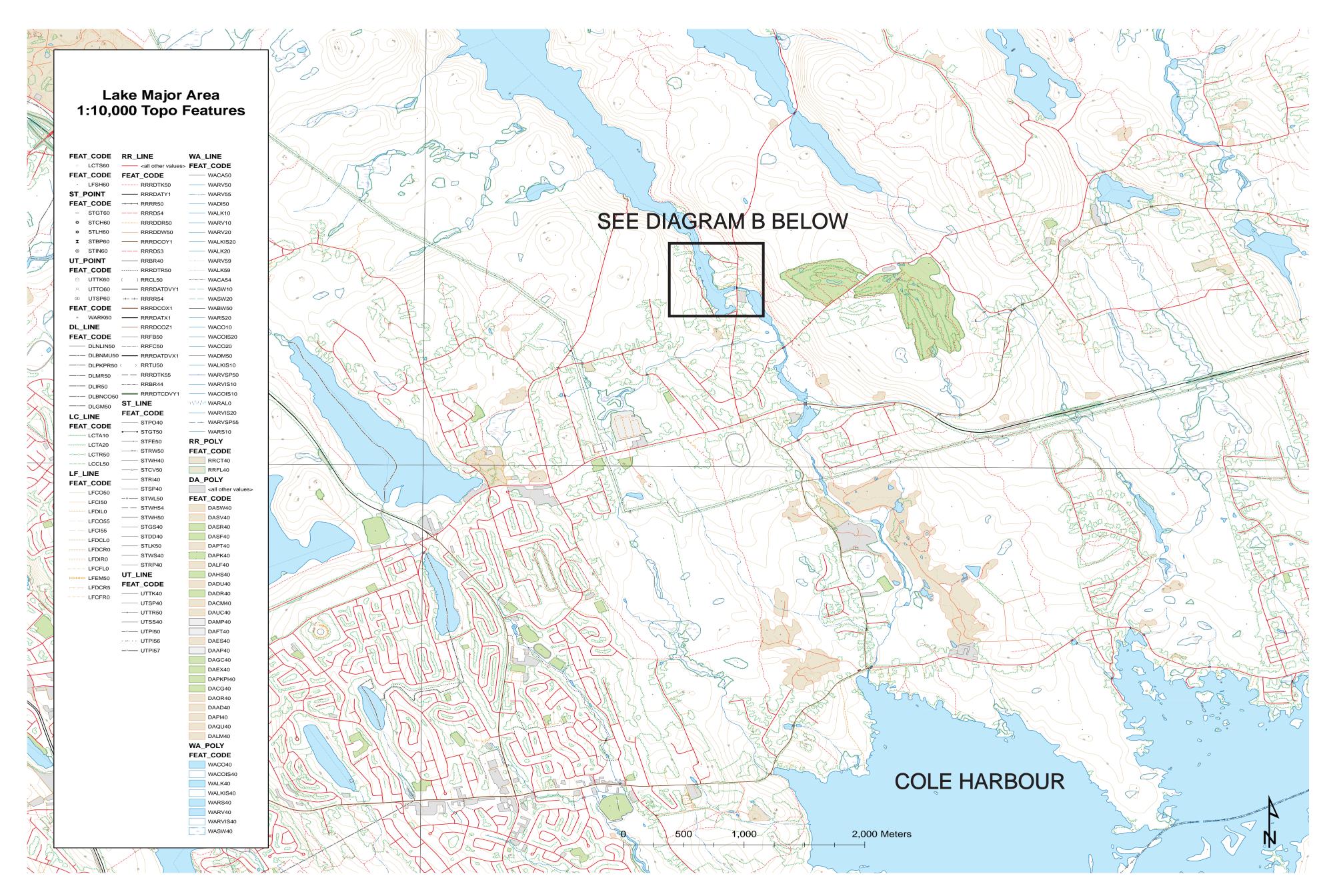
FIELD RECONNAISSANCE AT SHORELINE





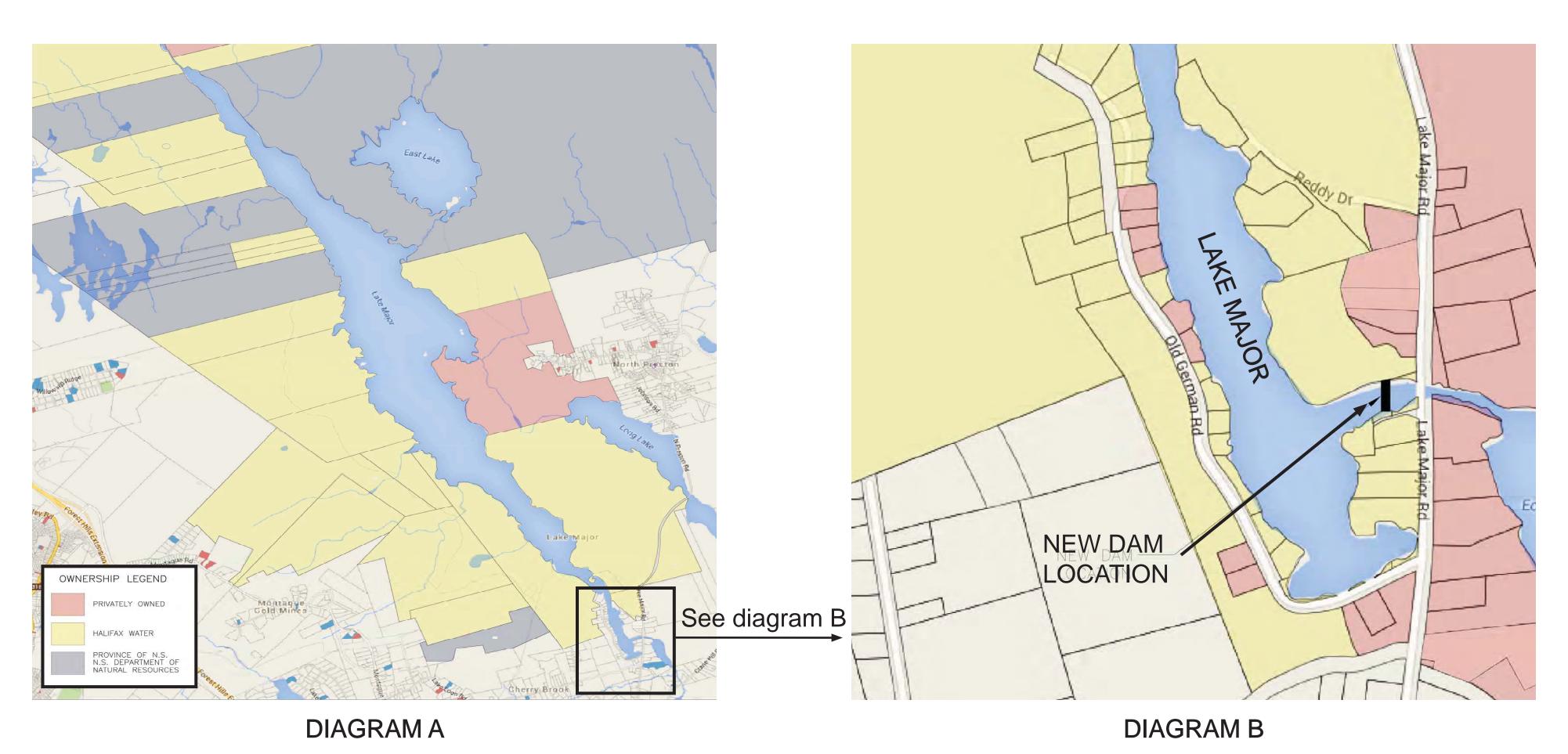
# LAKE MAJOR DAM REPLACEMENT

# PROPERTY OWNERSHIP



The map above shows the topography surrounding Lake Major at a 1:10,000 scale. (Map provided by GeoNova, Nova Scotia Topographic Database).

Maps below show the properties surrounding Lake Major. As shown in the legend, the colors displayed on the maps denote different property ownership; privately owned, owned by Halifax Water or owned by the Province of Nova Scotia, NS Department of Natural Resources. All property ownerships information was taken as of October 21, 2015. (Map provided by viewpoint.ca and ownership information provided by Property Online, Access Nova Scotia).







# COMMUNITY ENGAGEMENT

## COMMITMENT TO ENGAGE

- We are committed to listening to and engaging the community.
- Community members will be involved in the project planning including:
- ✓ Providing key information about the local area.
- ✓ Helping develop a list of local businesses and services.
- ✓ Identifying key concerns of the local users and stakeholders.
- ✓ Provide feedback about the Project to Halifax Water and Lake Major Watershed Advisory Board.



### The Lake Major Watershed Advisory Board:

- ⇒ Providing key information about the local area.
- ⇒ Bring local ideas, concerns, and interests to the table.
- ⇒ Strengthens and enhances existing regulations and guidelines.
- Represents landowners, residents, business-people, and community groups.







# COMMUNITY ENGAGEMENT

## **ENVIRONMENT ASSESSMENT PROCESS**

- Is required by Nova Scotia Environment to ensure that a project's environment and safety effects are minimized.
- Identifies environmental effects at an early stage in project development.
- Public consultation is an integral part of this process - community is invited to comment on the Environmental Assessment during the review period.



- Reviewed by Nova Scotia Environment and other relevant government agencies.
- Nova Scotia Minister of Environment only provides approval once satisfied that environmental and safety effects will be minimized.

Proponent submits Environmental Assessment (EA) Nova Scotia Environment reviews EA - **50 day period**The first **30 days** are open to **public commenting** provided to NSE.

Final decision and conditions delivered by Minister of Environment

# **BASELINE STUDIES**

- Avifauna (Birds)
- General Wildlife
- Plants
- Wetlands
- Watercourses and Fish Habitat

- Groundwater and Geology
- Visual Aesthetics
- Cultural and Heritage Resources
- Socio-economic Conditions





October 27, 2016

Chief Rufus Copage Sipekne'katik First Nation Indian Brook Post Office 522 Church Street Indian Brook, NS B0N 1W0

Re: Lake Major Dam Replacement

Dear Chief Copage,

This letter is to inform you of the upcoming public information session for the Lake Major Dam Replacement Project. Halifax Water staff, along with representatives of their consultants will be available to provide information on the project and answer questions between 7:00pm and 9:00pm on Thursday, November 10<sup>th</sup>, 2016 at the Graham Creighton Junior High Cafeteria, located at 72 Cherry Brook Road.

The Lake Major Watershed provides water to approximately 100,000 people in the communities of the former City of Dartmouth, Forest Hills, Eastern Passage, Cole Harbour, Westphal, Cherry Brook/Humber Park/Ross Road and North Preston. The existing dam, located at 250 Lake Major Road was built in the 1940's is at the end of its service life and in need of replacement. Halifax Water is currently seeking regulatory approval for this project, which includes public consultation. The session will be to provide general information about the studies that have been completed to obtain approval for construction from the Nova Scotia Department of Environment.

If you have any questions or concerns about this project you are invited to attend the session or you can contact me at the number below.

Sincerely,

Jonathan MacDonald, P.Eng Project Engineer

Cell: 902-818-0913



October 27, 2016

Twila Gaudet Consultation Liason Officer Kwilmu'kw Maw-klusuaqn Mi'kmaq Rights Initiative (KMKNO) 75 Treaty Trail, Truro, NS B2N 6N8

Re: Lake Major Dam Replacement

Dear Ms. Gaudet,

This letter is to inform you of the upcoming public information session for the Lake Major Dam Replacement Project. Halifax Water staff, along with representatives of their consultants will be available to provide information on the project and answer questions between 7:00pm and 9:00pm on Thursday, November 10<sup>th</sup>, 2016 at the Graham Creighton Junior High Cafeteria, located at 72 Cherry Brook Road.

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If you have any questions or concerns about this project you are invited to attend the session or you can contact me at the number below.

Sincerely,

Jonathan MacDonald, P.Eng Project Engineer

Cell: 902-818-0913



October 27, 2016

Grace Conrad Chief & President Native Council of Nova Scotia P.O. Box 1320 Truro NS B2N 5N2

Re: Lake Major Dam Replacement

Dear Chief Conrad,

This letter is to inform you of the upcoming public information session for the Lake Major Dam Replacement Project. Halifax Water staff, along with representatives of their consultants will be available to provide information on the project and answer questions between 7:00pm and 9:00pm on Thursday, November 10<sup>th</sup>, 2016 at the Graham Creighton Junior High Cafeteria, located at 72 Cherry Brook Road.

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If you have any questions or concerns about this project you are invited to attend the session or you can contact me at the number below.

Sincerely,

Jonathan MacDonald, P.Eng Project Engineer

Cell: 902-818-0913



October 27, 2016

Chief Robert Gloade Millbrook First Nation PO Box 634 Truro, NS B2N 5E5

Re: Lake Major Dam Replacement

Dear Chief Gloade,

This letter is to inform you of the upcoming public information session for the Lake Major Dam Replacement Project. Halifax Water staff, along with representatives of their consultants will be available to provide information on the project and answer questions between 7:00pm and 9:00pm on Thursday, November 10<sup>th</sup>, 2016 at the Graham Creighton Junior High Cafeteria, located at 72 Cherry Brook Road.

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If you have any questions or concerns about this project you are invited to attend the session or you can contact me at the number below.

Sincerely,

Jonathan MacDonald, P.Eng

Project Engineer Cell: 902-818-0913



November 25<sup>th</sup>, 2016

#### Re: Lake Major Dam Replacement

To whom it may concern,

On October 27<sup>th</sup>, 2016, Halifax Water emailed letters to the following members of the aboriginal community that were identified by the Nova Scotia Department of Aboriginal Affairs:

Grace Conrad – Chief & President – Native Council of Nova Scotia Chief Robert Gloade – Millbrook First Nation Chief Rufus Copage – Sipekne'katik First Nation Twila Gaudet – Consultation Liason Officer – Mi'kmaq Rights Initiative

The letter provided them with general information on the project and made them aware of the public information session on November 10<sup>th</sup>, 2016.

To date, Halifax Water has not received any formal communication or inquiries from members of the aboriginal community.

Sincerely,

Jonathan MacDonald, P.Eng

Project Engineer Cell: 902-818-0913