

Engagement Plan

Yellowknife Pumphouse Geotechnical Drilling
Land Use Permit Application

Mackenzie Valley Land and Water Board

MV2022S0011

August 19 2022

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Revision History

Revision	Revision date	Details	Authorized	Name	Position

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1. Introduction

AECOM Canada is conducting a geotechnical investigation program at Pumphouse No. 1 and Pumphouse No. 2 to inform the City of Yellowknife's Submarine Waterline Replacement Program. As part of this work, AECOM will also conduct engagement with potentially affected parties and prepare the Type A Land Use Permit application for the geotechnical drilling program, as required by the Mackenzie Valley Land and Water Board (MVLWB, the Board).

This engagement plan responds to requirements outlined in the *Mackenzie Valley Land and Water Board (MVLWB) Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits* (the Guidelines). The engagement plan is designed to be appropriate for the nature of work proposed and the Type A Land Use Permit being sought. Engagement will include informing and engaging affected parties before, during, and after the proposed investigation program. Methods will include written notification and information posted to the City of Yellowknife website, opportunities for meetings, and opportunities to submit questions and sign up for project updates. The geotechnical investigation is one step in the broader project of the City's submarine waterline replacement project. Although the nature of the geotechnical work is small-scale, short term, minimal risk, and for a short duration, our connection to water is vital and of high interest. Some stakeholders may also make a connection to the City's recent water licence renewal, raising further interest. With that in mind, this plan also aims to:

- promote understanding of the geotechnical investigation;
- promote understanding how the geotechnical investigation is a part of the baseline information needed for designing the waterline replacement project;
- establish consistent project messaging and key AECOM and / or City contacts; and
- establish and maintain connections with stakeholders throughout the broader waterline replacement project lifecycle.

Project Description

On behalf of the City of Yellowknife, AECOM is planning to undertake a geotechnical drilling program as part of the pre-design geotechnical investigation work required for the City of Yellowknife proposed Submarine Waterline Replacement Project. The future submarine waterline replacement work and associated pumphouse upgrades will be submitted separately for regulatory approvals once preliminary designs and project planning activities are complete. The geotechnical investigation includes drilling boreholes at Pumphouse No.1 and No.2, along Pumphouse No. 2 Access Road and Highway 4, and at Lift Station No.1.

A total of twelve (12) boreholes will be drilled for the geotechnical program over approximately twelve days.

- Pumphouse No.1: three (3) boreholes will be drilled at this site with two (2) locations drilled to refusal with standard penetration test (SPT) sampling for the full depth of overburden and one (1) location drilled and cored to a depth of seven (7) meters below the bedrock surface. Expected depth of overburden is between four (4) and eleven (11) meters based on historical data.
- Pumphouse No.2: three (3) boreholes will be drilled at this site with two (2) locations drilled to refusal with SPT sampling for the full depth of overburden and one (1) location drilled and cored to a depth of seven (7) meters below the bedrock surface. Expected depth of overburden is between thirteen (13) and twenty-one (21) meters based on historical data.
- Pumphouse No.2 Access Road and Ingraham Trail (Hwy 4): four (4) boreholes will be drilled adjacent to the roadways and within the easement boundaries. These locations will be drilled five (5) meters deep or to refusal on bedrock. No historical data from these areas is available.

- Lift Station No. 1: two (2) boreholes will be drilled at this wastewater lift station located at the corner of School Draw and Franklin Avenue. One (1) location will be drilled to bedrock refusal and the second location drilled and cored to a depth of 5 m below the bedrock surface.

Figures showing the areas and locations for the proposed borehole drilling locations are provided in Appendix A.

The area required at each drill location to host the truck-mounted sonic drill rig (Figure 1), the pipe truck, and two support trucks is approximately 350m²; The total combined work area for the 12 locations is approximately 4,200m² or .42 hectares.

The investigation also includes installation of two monitoring wells (one at each pumphouse location) to the full depth of the bedrock, complete with monitoring well protectors at the surface. Upon completion of the monitoring well installation, two in-situ pump tests will be completed to estimate groundwater in-flow rates and inform future contractors of site conditions.

Boreholes without monitoring wells will be backfilled with bentonite chips. Borehole locations and elevations will be surveyed by handheld GPS. It is not anticipated that clearing or tree removal will be necessary to complete the program.

For Pumphouse No.2 Access Road and Ingraham Trail, AECOM will use delineators and flaggers in areas, if necessary, to allow the safe flow of traffic and to protect drilling equipment and workers. Before mobilizing to the sites, AECOM will develop a project-specific safety plan, in consultation with the drilling contractors so that the safety features and any potential hazards of the equipment being used on the project are included in the plan.

AECOM's field representatives will monitor the drilling of the boreholes and log subsurface conditions and found ice conditions (if encountered). Standard penetration testing will be performed every 1.5 m to assess the soil strength (if unfrozen soil), and disturbed soil samples will be collected at regular intervals, or as warranted by changes in subsurface stratigraphy. AECOM's field representative will collect samples and log the core. Samples will be shipped and tested for UCS.

Clean, municipal water will be made available from the City of Yellowknife for use during drilling activities. Small volumes of water may be used during drilling to provide a pressure head within the well to mitigate sluffing, and/or as a lubricant, estimated to be less than 3 m³ total. Any waste generated by the geotechnical drilling project will be managed in accordance with the project Waste Management Plan (WMP). All drill cuttings resulting from the geotechnical investigation will be collected in soil bags and taken to the City's Solid Waste Facility. Minimal water will be used during coring and would be below surface. Any water that does surface would contain suspended drill cuttings and would be contained by creating small, localized drainages at the work site for drill cuttings to settle and be collected.

Any wastes generated by the Geotechnical drilling program will be managed in accordance with this WMP. In the unlikely event of a spill incident, the spill will be responded to and cleaned up in accordance with the project Spill Contingency Plan. As the Geotechnical drilling program will be conducted with mobile drilling equipment, and the boreholes backfilled, no further restoration is anticipated to be required upon drilling completion.

Project Contacts

The City of Yellowknife is the project proponent.

Table 1 – Applicant and Project Contacts

Applicant	Project Contacts
Wendy Newton, Manager Sustainability & Solid Waste Public Works & Engineering City of Yellowknife Box 580, City Hall Yellowknife, NT X1A 2N4 Email: wnewton@yellowknife.ca	Ryan King AECOM Canada Market Sector Leader, Conveyance (Water) ryan.king@aecom.com 306.280.4471

2. Engagement Plan

MVLWB Requirements

The Mackenzie Valley Land and Water Board (MVLWB, the Board) Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits (Guidelines) provide a principled framework for engagement. Guiding principles of shared responsibility, appropriate disclosure, inclusiveness, and reasonableness govern how AECOM undertakes engagement and consultation with affected parties throughout the project process.

Affected parties include primary and secondary stakeholders, and all projects in the Mackenzie Valley require engagement with potentially affected Indigenous organizations and governments. Located near Yellowknife, engagement must also consider those secondary stakeholders indirectly impacted by the project (see Affected Parties, Table 4).

The MVLWB [Engagement and Consultation Policy](#) (2018) also directs proponents to:

- explain the project;
- identify concerns and potential environmental impacts (including any potential for impacts to Indigenous and treaty rights);
- address concerns raised; and
- determine that appropriate levels and types of Engagement are carried out over the life of an authorization or project.

Updates to the Engagement Plan will detail engagement approaches with the appropriate Affected Party over the life of the authorization.

Goals

Adapting the [IAP2 Spectrum of Public Engagement](#) framework, engagement goals for the geotechnical investigation are focused on informing and consulting affected parties.

Table 2 - Engagement Goals

Goal	Approach	Commitment
Inform	Provide clear, balanced information in accessible formats	Keep Affected Parties informed.
	Support understanding of project, alternatives, opportunities and / or solutions.	
Listen + Learn	Gather feedback to inform analysis, alternatives, and decision-making.	Keep Affected Parties informed.
		Listen and acknowledge concerns.
		Communicate project progress.
		Share back how input influenced decision-making.

Methods

A range of methods are proposed for passive and active engagement. The focus is on engagement that is appropriate for the nature of the project.

Written notification: As a new land use permit, AECOM will provide written notification of the proposed investigation. Written notification will include:

- project description;
- project scope of work;
- project timeline;
- location(s) of proposed work;
- invitation to meet to discuss;
- inquiry regarding affected party's desired format and frequency of communication; and
- AECOM and City contact information.

At notification, the GNWT Department of Transportation will also be provided a traffic control plan.

Meetings (face-to-face, virtual): Meetings with affected parties will be conducted as requested by the parties. Meetings will be conducted in the affected parties' desired format (virtual, face-to-face), and entail sharing information about the investigation program and listening and responding to concerns. Engagement findings will be documented in the Engagement Record, and affected parties provided opportunity to review prior to submission to the Board.

Publicly available information: Closer to drilling investigation dates, information regarding locations, dates and types of equipment will be made publicly available via Capital Update. Although the geotechnical investigation is a smaller scale undertaking of short duration, sharing information more broadly is recommended given the connection to the City's watermain replacement project. We aim to provide early, consistent messaging that promotes understanding and awareness. This work is pending discussions with the City.

Further engagement: We will confirm with the MVLWB and Affected Parties the requirement for further engagement, focusing on those most directly affected. This approach mirrors the value of 'Connection' embraced by the City (Yellowknife's 2019-2022 Strategic Plan), of "mutually beneficial and accountable relationships between residents, and between residents and their City government."

Monitoring: An engagement log will be maintained throughout the project cycle.

Table 3 - Engagement Plan

When will we engage? What are the triggers?	What is the purpose for engaging?	Who will be engaged at each of these stages?	How will we engage?
Pre application for LUP August - September 2022	Share information about geotechnical investigation program in vicinity of Pumphouse No.1 and No.2 and lift station. Gather input and respond to concerns.	Affected Parties	Written notification (emails, letters) to Affected Parties Phone calls / Meetings with Affected Parties (as requested)
During Geotechnical investigation Mid-September - December 2022	Provide updates on ongoing work and locations	Affected Parties	Respond to inquiries and meeting requests. Notice in Capital Update.
Project completion December - January 2022	Share information about geotechnical investigation program completion	Affected Parties	Written notification (emails, letters) to affected parties Phone calls / Meetings with Affected Parties (as requested)

A sample notification letter is available (Appendix B) and Pre-Submission Engagement Log (Appendix C).

3. Potentially Affected Parties

Potentially Affected Parties have been identified with help from the City and the Board. Primary (P) and Secondary (S) stakeholders are noted.

Table 4 - Potentially Affected Parties

Organization	Contact	Role	Contact Info	P / S
Yellowknives Dene First Nation (Dettah)	Chief Edward Sangris	Community Leader	Chief - Executive Assistant m.mackenzie@ykdene.com 867. 873.4307	P
	Adrian Boyd	Lands Department	Lands Department adrianb@ykdene.com 867. 873.4307 extension 2012	
Yellowknives Dene First Nation (Ndilo)	Chief Ernest Betsina	Community Leader	Chief - Executive Assistant (Vacant) mmackenzie@ykdene.com 867.873.8951	P
Tłıchǫ Government	Michael Birlea	Lands Protection & Renewable Resources Department	michaelbirlea@tlicho.com	S
Akaitcho IMA Implementation office NWT Treaty 8 Tribal Corporation	Ms. Stephanie Poole	Akaitcho Screening Committee Officer	Screeningofficer@eastarm.com 867.370-3217	P
North Slave Métis Alliance	Mr. William (Bill) Enge	President	billenge@nsma.net general@nsma.net 867.873.6762	P
	Jessica Hurtubise	Environmental Manager		
Yellowknife resident	General public	N/A	N/A	S
Yellowknife Ski Club	Ashley Janes	Volunteer Communications Director	Ashley Janes - 867-875-7587 ykskiclubcommunications@gmail.com	S
GNWT Tourism and Parks	Carrie Young	Park Management Yellowknife (North Slave Region)	Carrie_Young@gov.nt.ca 867.767-9212 ext. 63246	S
GNWT Dept of Transportation	Chelsey Digness	Regional Manager	chelsey_digness@gov.nt.ca 867.447.4076	P
Yellowknife Community Garden Collective	Tracey Bock	Board Chair	chair@ykgardencollective.org	S
Giant Mine Working Group – Giant Mine Aquatic Advisory Committee	Jessica Mace	Engagement Manager, CIRNAC	Jessica.mace@canada.ca	S

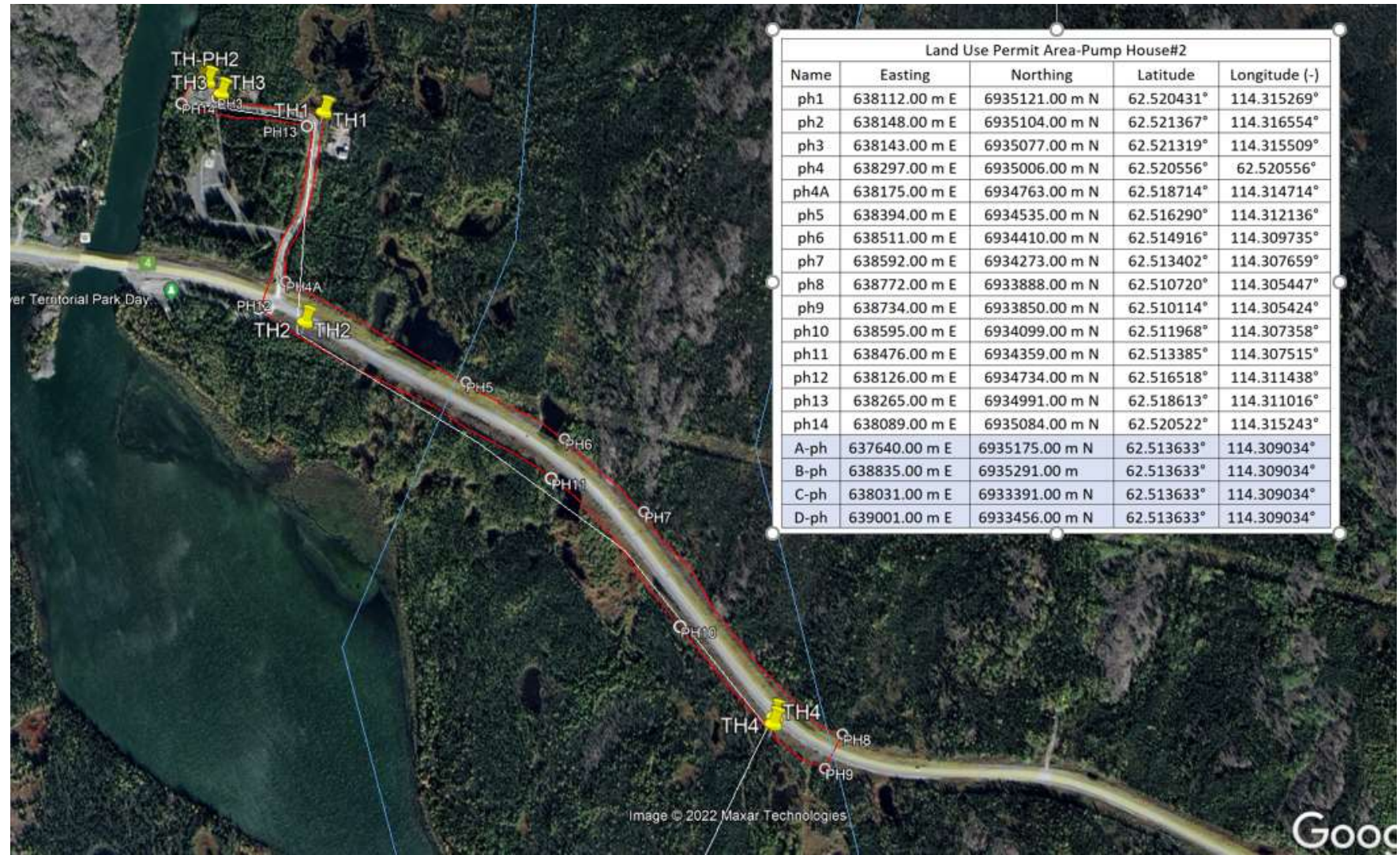
Appendix A – Project Location and Proposed Geotechnical Investigation Locations

Sketch 1: General location of the work (Pumphouse #1, Pumphouse #2 and Lift Station):



Sketch 2: Land Use Permit Area – Pumphouse #2

The application requests the area within the red lines to be permitted.



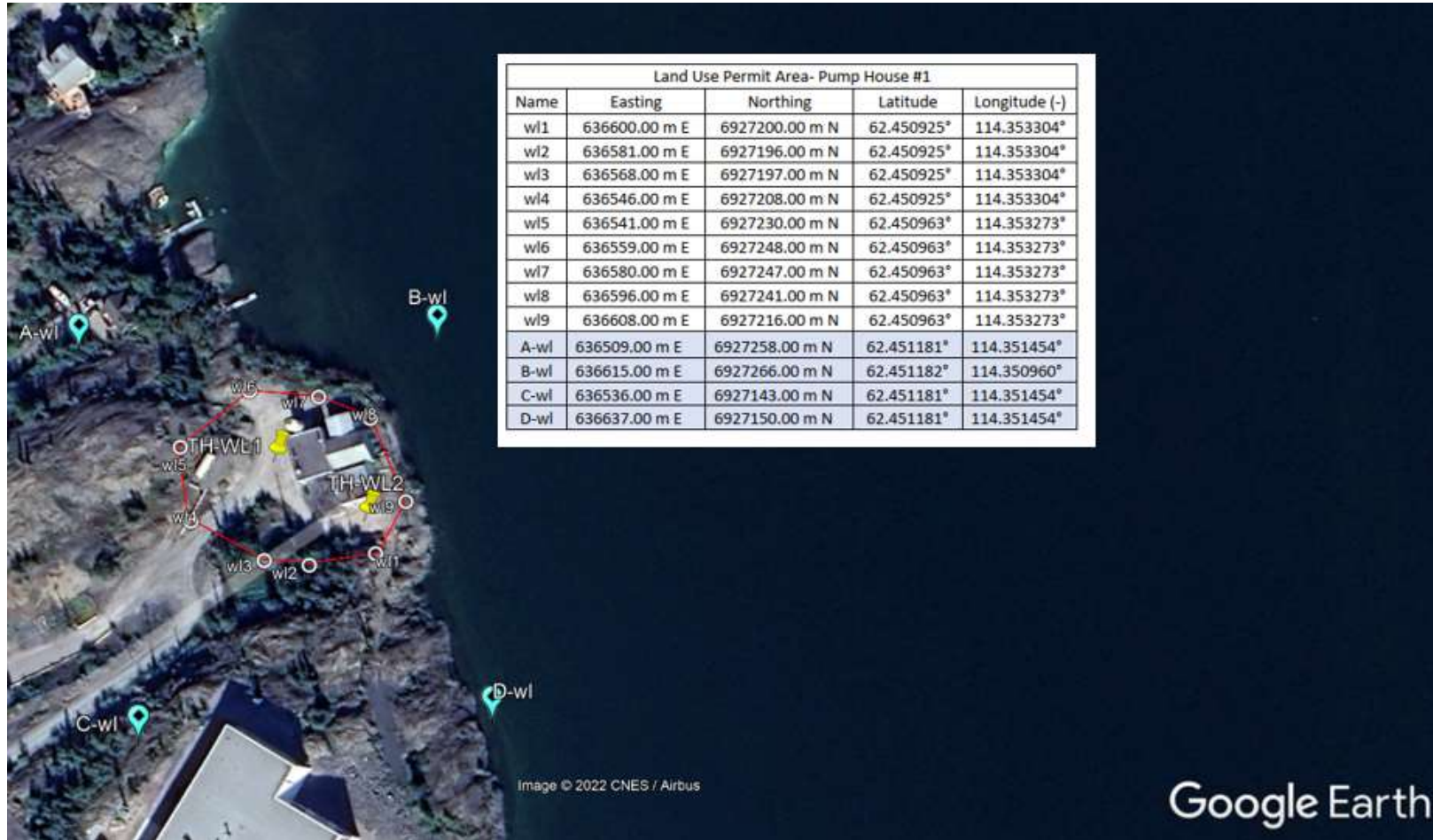
Sketch 3: Land Use Permit Area – Lift Station

The application requests the area within the red lines to be permitted.



Sketch 4: Land Use Permit Area – Pumphouse #1

The application requests the area within the red lines to be permitted.



Appendix B – Sample Letter to Inform Potentially Affected Parties



AECOM Canada Ltd.
200 – 2100 8th Street
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Canada

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F: 306.700.2428
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August 19 2022

Chief Edward Sangris
Yellowknives Dene First Nation Community of Dettah
PO Box 2514
Yellowknife, NT X1A 2P8

Via email
m.mackenzie@ykdene.com
adrianb@ykdene.com

Subject: Notice of Geotechnical Investigation at Pumphouse #1, Pumphouse #2 and Wastewater Lift Station no.1

This is to advise the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

- 1) Pumphouse No. 1 located adjacent to City of Yellowknife Water Treatment Plant, along the shoreline of Yellowknife Bay (Group 964, Plan 200).
- 2) Pumphouse No. 2 located adjacent to the Yellowknife River (Group 964, Plan 883).
- 3) Lift Station No. 1 located at the corner of Franklin Ave./School Draw Ave. (Block 78, Group 4437)
- 4) Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4) adjacent to the roadways and within the transportation easement boundaries.

The intent is to drill a total of twelve (12) boreholes to establish ground conditions for the future replacement of the City of Yellowknife water line and Lift Station No. 1. The proposed geotechnical locations are identified (Attachment A). AECOM will identify existing utilities and ensure these are avoided prior to drilling.

Geotechnical investigation also includes installing two monitoring wells, one at each pumphouse location to the full depth of the bedrock, complete with monitoring well protectors at the surface. Upon completion of the monitoring well installation, two in-situ pump tests will be completed to estimate groundwater in-flow rates and inform the future contractor of site conditions. Boreholes without monitoring wells will be backfilled, and holes sealed.

Activities are planned for Fall 2022, and expected to take 12 days between the beginning of September and end of December. Exact dates are to be determined. Clean, municipal water will be readily available from the City of Yellowknife for use during drilling activities. All drill cuttings resulting from the geotechnical investigation will be taken to the City's Solid Waste Facility.

The geotechnical investigation may produce noise between the hours of 8:00 am and 5:00 pm. There are no anticipated impacts on traffic and noise will be limited; a traffic control plan has been developed and provided to the GNWT Department of Transportation.

We are seeking a Land Use Permit from the Mackenzie Valley Land and Water Board (MVLWB) for this work – any additional future project work will be covered under a separate Land Use Permit and Water Licence application.

Via this letter, we are sharing information about the geotechnical investigation before submitting the Land Use application. Going forward, please let us know how to best engage your organization through the permitting and project implementation phases.

Our plan is to submit the Land Use Permit application to the MVLWB this month. We invite you to share your questions or concerns with us, or let us know if you wish to discuss any element of the geotechnical investigation.

This geotechnical investigation is one step in the City's process of designing a new water pipeline to bring drinking water to residents. This water line replacement project is planned to take place in the next two years. When installed, this will entail 8.5 km of new underwater pipe and upgrades of the City's two pumphouse facilities.

We will contact you in the coming months to gather input on the design and construction of the proposed waterline, and ensure full compliance with MVLWB water licence regulatory requirements.

Please contact Morag McPherson, Senior Aquatic Biologist, morag.mcpherson@aecom.com, 780.901.8340 with any comments or questions regarding the geotechnical investigation.

Response is requested by September 7, 2022.

Yours sincerely,

Ryan King
Market Sector Leader, Conveyance, Water
AECOM Canada Ltd.
T: 1.306.280.4471
E: ryan.king@aecom.com

FIGURES

Appendix C – Pre-Submission Engagement Log

As of September 7, 2022

Affected Party and/or Attendees	Dates	Engagement Activity Type	Issue(s) Raised by Affected Party	Recommendation from Affected Party	Proponent Response to Issue (Un/Resolved)	Information Materials Provided to Affected Party (Y/N)	Written Correspondence (Y/N)
GNWT Dept of Transportation	29-Jul-22	Phone Call to Chelsey Digness Regional Manager, Highway Operations for information gathering	No issues raised during information sharing (07/29/22).	Recommended notifying GNWT Highways of exact locations and dates of drilling along roadways, once known, along with the traffic management plans, signs etc., that will be used.	Will forward information regarding drilling dates and locations.	N	N
GNWT Dept of Transportation	22-Aug-22	Letter to Ms. Digness	08/29/22 - Email from GNWT Highways received requesting clarification on how the locations at Pumphouse No.2 would be accessed.	Indicated that it may require a temporary access permit.	08/30/22 - Email response sent providing additional details on the existing Pumphouse No.2 access road proposed to be used and the potential drill locations along that road. Also re-iterated that no new clearing or access routes are required for this program.	Y - maps of Pumphouse No. 2 road and the proposed drill locations in that area.	N
GNWT Dept of Transportation	1-Sep-22	Phone call to Chelsey Digness, Regional Manager, Highway Operations to follow-up on the supplementary information provided on the Pumphouse 2 access and locations.	Left a voice message. Pending response.	No recommendations identified to date.	No response required	N	N
Yellowknives Dene First Nation (Dettah)	22-Aug-22	Letter to Chief Edward Sangris via Adrian Boyd (email)	No concerns raised to date	No recommendations identified to date.	No response required	N	N
Yellowknives Dene First Nation (Dettah)	23-Aug-22	Follow up phone call (08/23).	A Boyd indicated no concerns to date regarding geotechnical investigation; pending final feedback.	Interested to understand the physical location of the pipeline replacement and land tenure.	No response currently required. Indicated they would discuss with colleagues and follow-up if concerns were raised.	N	N

Engagement Plan

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Yellowknives Dene First Nation (Dettah)	1-Sep-22	Follow up phone call to Adrian Boyd to see if any additional discussions had taken place or concerns raised.	Left a voice message explaining purpose of the call and letting them know the LUP will be submitted to the MVLWB next week. Pending response.	No recommendations identified to date.	No response required	N	N
Yellowknives Dene First Nation (Ndilo)	22-Aug-22	Letter to Chief Fred Sangris via Executive Assistant (email) Called (08/23) to confirm receipt; directed to resend letter to Melissa McKenzie, Executive Assistant. Resent letter	No issues raised to date.	No recommendations identified to date.	No response required to date.	N	N
Yellowknives Dene First Nation (Ndilo)	1-Sep-22	Follow-up phone call to Executive Assistant for Ndilo Chief Fred Sangris. Left a voice message referencing the August 22, 2022 email and letter, contact information if there are questions, and noted that LUP will be submitted next week.	No issues raised to date.	No recommendations identified to date.	No response required to date.	N	N
Yellowknives Dene First Nation (Ndilo)	1-Sep-22	Follow-up phone call to Melissa Mackenzie (provided as contact as Ndilo EA position is vacant).	Not in the office on Sept 1, 2022. Called Sept 2, 2022 and left a voice mail. Pending response.	No recommendations identified to date.	No response required to date.	N	N
Tłıchǵ Government	22-Aug-22	Letter to Michael Birlea, Lands Protection & Renewable Resources Department	No letter response	No recommendations identified to date.	No response required to date.	N	N

Engagement Plan

Affected Party and/or Attendees	Dates	Engagement Activity Type	Issue(s) Raised by Affected Party	Recommendation from Affected Party	Proponent Response to Issue (Un/Resolved)	Information Materials Provided to Affected Party (Y/N)	Written Correspondence (Y/N)
Tłıchǫ Government	24-Aug-22	Follow up phone call (08/24) to Stephanie Behrens - Acting for Michael Birlea	No issues raised. Indicated they would look at the letter and let us know if they have concerns and will look at the application once it's in at the MVLWB.	No recommendations identified to date.	No response required to date.	N	N
Tłıchǫ Government	1-Sep-22	Email to Stephanie Behrens and Michael Birlea to follow-up on the Aug 24, 2022 conversation and provided information on the Type A LUP submission next week.	No concerns raised to date	No recommendations identified to date.	No response required to date.	N	N
North Slave Métis Alliance	22-Aug-22	Letter to Mr. William (Bill) Enge and Jessica Hurtubise, Environmental Manager (via general email)	No issues raised to date.	No recommendations identified to date.	No response required to date.	N	N
North Slave Métis Alliance	24-Aug-22	Follow up phone call (08/24). Spoke with Noah Johnson, Lead Regulatory Officer	Not anticipating any concerns with the geotechnical drilling activity, as typically they don't have issues with work being done on critical infrastructure for City operations. Asked about timelines for the larger pipeline project and water quality of YK Bay if it were to be used short-term.	Recommended that water quality data be readily available on the YK Bay vs YK River sources, as well as WQ data post treatment of both sources to show that the composition of YK Bay water comes out the same or is indistinguishable after treatment.	<p>Provided an approximate timeline for the larger pumphouse and pipeline work - design and engagement activity this fall and anticipate submitting an amendment to the Type A water licence early in the new year. Estimating 9 month water licence process including public hearings.</p> <p>Noted that the City does have an SNP station for water sampling at the YK Bay intake, so regular WQ data is collected at that location. Giant Mine also conducts broad WQ monitoring in YK Bay with it's programs, so that data will be valuable. Provided some information on the past Water Source Selection Study that AECOM conducted for the City with third party review by Dillon. It has analysis of YK River vs YK Bay water that can be used to support the discussions on short-term use of YK Bay water, as well.</p>	N	N

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Affected Party and/or Attendees	Dates	Engagement Activity Type	Issue(s) Raised by Affected Party	Recommendation from Affected Party	Proponent Response to Issue (Un/Resolved)	Information Materials Provided to Affected Party (Y/N)	Written Correspondence (Y/N)
North Slave Métis Alliance	1-Sep-22	Email to Noah Johnson to follow-up on the Aug 24, 2022 conversation and provided information on the Type A LUP submission next week.	No issues raised to date.	No recommendations identified to date.	No response required to date	N	N
Yellowknife Ski Club	22-Aug-22	Letter to Ashley Janes, Volunteer Communications Director (email)	No issues raised to date.	No recommendations identified to date.	No response required	N	N
GNWT Tourism and Parks	22-Aug-22	Letter to Carrie Young, Park Management Yellowknife (North Slave Region) (email)	Email response received 08/24 indicating plans had been reviewed and there were no concerns with this activity impacting their operations.	Keep them updated as to when the drilling might occur.	Will forward information regarding drilling dates.	N	N
GNWT Tourism and Parks	24-Aug-22	Follow-up email to acknowledge their reply and reiterated anticipated date for submission of the LUP, as well as ongoing communication regarding plans for the larger pipeline replacement project.	No issues raised to date.	No recommendations identified to date.	No response required	N	N
Yellowknife Community Garden Collective	22-Aug-22	Letter to Tracey Bock, President (email)	No issues raised to date.	No recommendations identified to date.	No response required	N	N
Yellowknife Community Garden Collective	1-Sep-22	Follow up email to Tracey Bock, President	No issues raised to date.	No recommendations identified to date.	No response required	N	N
Giant Mine Working Group - Giant Mine Aquatic Advisory Committee	22-Aug-22	Letter to Jessica Mace, Engagement Manager, CIRNAC (email); forwarded to Geneva Irwin	GI reviewed letter; no initial issues raised. Circulated to colleagues; no concerns.	No recommendations identified to date.	No response required	N	N

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		Called 08/23 to confirm receipt.					
Giant Mine Working Group - Giant Mine Aquatic Advisory Committee	31-Aug-22	Emailed (08/31) to follow up; G Irwin noted no issues raised.	No issues raised to date.	No recommendations identified to date.	No response required	N	N
GNWT Lands	28-Jul-22	Letter to Rebecca Whalen, Admin Assisant (email)	No issues raised to date.	Requested email with details to share internally.	Resolved. Provided information regarding pipeline alignment and general information about pipeline alignments exceeding existing utility corridors.	Y	Y

Appendix D – Engagement Correspondence

McPherson, Morag

From: McPherson, Morag
Sent: Tuesday, August 30, 2022 9:25 AM
To: Chelsey Digness
Subject: RE: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: Pumphouse No.2 Rd.pdf; PH2 Drill Areas Overview Map2.jpg

Good morning Chelsey,

They plan to access the Pumphouse 2 area using the existing access road to get to the location. It's the road directly across from the YK River day use area and also goes to the Weledeh gathering site and DOT maintenance/garage area. See attached images that show the locations more closely.

Other potential drill locations are located along that Pumphouse No.2 Road and along the Ingraham Trail. The area outlined in red is what has been requested in the Land Use Permit application. The yellow pins are the proposed drill locations. Any drill locations along the roads would be within the existing road right-of-ways accessible to the equipment. No new clearing or access routes are required for this program.

Hopefully this helps! Please don't hesitate to call or send more questions if needed.

Again, the LUP is still being reviewed and will be open to a public review shortly. The program likely won't be able to proceed for another month or more, and we can provide more details on the exact drill locations in this Pumphouse 2 location once the contractor is in place and prior to the drill program taking place.

Thank you,
Morag

Morag McPherson, MSc.
Senior Aquatic Biologist, Environment
M +1-780-901-8340
morag.mcperson@aecom.com

From: Chelsey Digness <Chelsey_Digness@gov.nt.ca>
Sent: Monday, August 29, 2022 4:25 PM
To: McPherson, Morag <Morag.McPherson@aecom.com>
Subject: [EXTERNAL] RE: City of Yellowknife 2022 Geotechnical Drilling Program

Good afternoon Morag,

Can you please let me know how you'll be accessing the locations at Pumphouse 2? There may a requirement for a temporary access permit.

Regards,

Chelsey Digness
Regional Manager, Highway Operations
North Slave Region

From: McPherson, Morag <Morag.McPherson@aecom.com>
Sent: August 22, 2022 1:39 PM
To: Chelsey Digness <Chelsey_Digness@gov.nt.ca>
Subject: City of Yellowknife 2022 Geotechnical Drilling Program

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender's name and email address and know the content is safe.

Hi Chelsey,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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We have also been retained by the City to assist with the engagement and the regulatory applications required for all works associated with the Submarine Waterline Replacement Project, including the geotechnical investigation. At this time, we are seeking a Type A Land Use Permit from the Mackenzie Valley Land and Water Board (MVLWB) for the pre-design geotechnical investigation work only – any additional future project work will be covered under separate Land Use Permit and Water Licence applications.

Attached, for your consideration, is a letter with more detailed information about the proposed geotechnical investigation program.

Our plan is to submit the Type A Land Use Permit application to the MVLWB this month. We invite you to share your questions or concerns with us, or let us know if you wish to discuss any element of the geotechnical investigation.

This geotechnical investigation is one step in the City's process of designing a new water pipeline to bring drinking water to residents. This water line replacement project is planned to take place in the next two years. When installed, it will entail 8.5 km of new underwater pipe and upgrades of the City's two pumphouse facilities. Going forward, please let us know how to best engage your organization through the permitting and project implementation phases. We will contact you in the coming months to gather input on the design and construction of the proposed waterline, and inform our future water licence application to the MVLWB for the waterline project.

Please let us know if you have any initial questions or concerns regarding this proposed geotechnical drilling program.

Thank you very much for your time and look forward to hearing from you.

Kind Regards,
Morag

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Pumphouse Geotechnical Program

Drilling Areas

Legend

 Land Use Permit



From: McPherson, Morag
Sent: Monday, August 22, 2022 1:33 PM
To: adrianb@ykdene.com
Cc: m.mackenzie@ykdene.com
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 YKDN Dettah.pdf

Hi Adrian,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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Thank you very much for your time and look forward to hearing from you.

Kind Regards,
Morag

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:35 PM
To: 'tanyad@ykdene.com'
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 YKDN Ndilo.pdf

Hi Tanya,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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From: McPherson, Morag
Sent: Tuesday, August 23, 2022 3:56 PM
To: Mmackenzie@ykdene.com
Cc: Huck, Erin
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.23_MV2022S0011 YKDN Ndilo.pdf

Hi Melissa,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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McPherson, Morag

From: McPherson, Morag
Sent: Monday, August 22, 2022 1:49 PM
To: stephanie.behrens@tlicho.ca
Subject: FW: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011_Tlicho.pdf

Hi Stephanie,

Please see message below notifying the Tlicho of upcoming geotechnical drilling being proposed by the City of Yellowknife. I received Michael's out of office, so wanted to forward it correctly as the LUP application will be going in soon.

Thank you!
Morag

From: McPherson, Morag
Sent: Monday, August 22, 2022 1:38 PM
To: michaelbirlea@tlicho.com
Subject: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Michael,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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Thank you very much for your time and look forward to hearing from you.

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McPherson, Morag

From: McPherson, Morag
Sent: Thursday, September 1, 2022 12:38 PM
To: stephanie.behrens@tlicho.ca
Cc: michaelbirlea@tlicho.com
Subject: RE: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Stephanie,

Happy September (already!). Thanks again for your time on the phone last week to discuss the City's proposed geotech program at the pumphouses.

Just wanted to let you know that we're planning to submit the Type A LUP to the MVLWB next week. Again, please don't hesitate to call or email if there are any questions or concerns.

Thank you!
Morag

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Senior Aquatic Biologist, Environment
M +1-780-901-8340
morag.mcpherson@aecom.com

From: McPherson, Morag
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To: stephanie.behrens@tlicho.ca
Subject: FW: City of Yellowknife 2022 Geotechnical Drilling Program

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:38 PM
To: michaelbirlea@tlicho.com
Subject: City of Yellowknife 2022 Geotechnical Drilling Program

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:46 PM
To: general@nsma.net
Cc: billenge@nsma.net
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S011 NSMA.pdf

Hello,

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McPherson, Morag

From: McPherson, Morag
Sent: Thursday, September 1, 2022 3:27 PM
To: noah.johnson@nsma.net
Cc: billenge@nsma.net; Jess.Hurtubise@nsma.net; general@nsma.net; Huck, Erin
Subject: RE: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Noah,

Happy September (already!). I just wanted to follow-up on the letter sent August 22, 2022 and the conversation we had last week regarding the proposed City of Yellowknife geotechnical program in the Pumphouse #1 and #2 areas. Thanks again for your time and the input you provided on potential water quality concerns in YK Bay and monitoring questions for the water line replacement project to consider.

Please let me know if there are any other questions that come up regarding the proposed geotech activity at this point. We're planning to submit the Type A LUP application to the MVLWB early next week, so it should be online for public review shortly thereafter.

As mentioned, AECOM (on behalf of the City of Yellowknife) will be reaching out soon to discuss plans for broader engagement on the submarine pipeline replacement project itself.

Don't hesitate to call or email if there are any questions or concerns.

Thank you!
Morag

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To: general@nsma.net
Cc: billenge@nsma.net
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Please let us know if you have any initial questions or concerns regarding this proposed geotechnical drilling program.

Thank you very much for your time and look forward to hearing from you.

Kind Regards,
Morag

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:58 PM
To: yskicclubcommunications@gmail.com
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 YK SKi.pdf

Hi Ashley,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:28 PM
To: Carrie_Young@gov.nt.ca
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 GNWT Tourism + Parks.pdf

Hi Carrie,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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McPherson, Morag

From: McPherson, Morag
Sent: Wednesday, August 24, 2022 2:06 PM
To: Carrie Young
Cc: Andy Williams
Subject: RE: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Carrie,

Thank you very much for the reply. The Land Use Permit application for the drilling program was submitted to the MVLWB today, so will hopefully be posted for public review shortly.

We will let you know once the geotech drilling dates are confirmed.

Regarding the larger water pipeline replacement and pumphouse upgrade project, there will be engagement activity this fall as the design options are being evaluated, and the plan is for the City to submit an application to the MVLWB in the new year for public review and approval. It is likely that construction activities will not begin until 2024.

Please don't hesitate to contact me if you have any questions and we'll keep you updated as the project information progresses.

Thanks again,
Morag

From: Carrie Young <Carrie_Young@gov.nt.ca>
Sent: Wednesday, August 24, 2022 11:33 AM
To: McPherson, Morag <Morag.McPherson@aecom.com>
Cc: Andy Williams <Andy_Williams@gov.nt.ca>
Subject: [EXTERNAL] RE: City of Yellowknife 2022 Geotechnical Drilling Program

Good morning Morag,

I had a chance to read through your plans for the geotechnical investigation. As far as I can see, this will not impact our operations. Please keep us updated as to when the drilling might occur. Thanks for including us in your communication,

Carrie Young

Mársı | Kinanāskomitin | Thank you | Merci | Hą́ı' | Quana | ᑭᓄᓐᓇᓴᓐ | Quyanainni | Máhsı | Máhsı | Mahsi

Carrie Young
Regional Parks Development Coordinator
North Slave Region
Industry, Tourism & Investment
(867)767-9212 ext 63246



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From: McPherson, Morag <Morag.McPherson@aecom.com>
Sent: August 22, 2022 1:28 PM
To: Carrie Young <Carrie_Young@gov.nt.ca>
Subject: City of Yellowknife 2022 Geotechnical Drilling Program

EXTERNAL: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender's name and email address and know the content is safe.

Hi Carrie,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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From: McPherson, Morag
Sent: Monday, August 22, 2022 1:19 PM
To: chair@ykgardencollective.org
Subject: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 Garden Collective.pdf

Hi Tracy,

Hope this finds you well. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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McPherson, Morag

From: McPherson, Morag
Sent: Monday, August 22, 2022 1:31 PM
To: geneva.irwin@rcaanc-cirnac.gc.ca
Subject: FW: City of Yellowknife 2022 Geotechnical Drilling Program
Attachments: LTR_2022.08.22_MV2022S0011 GM Aquatic WG.pdf

Hi Geneva!

FYI - Please see email below. I received Jessica's out of office and wanted to let the GMRP know prior to submitting the LUP.

Hope all is well and talk soon.
Thanks!
Morag

From: McPherson, Morag
Sent: Monday, August 22, 2022 1:23 PM
To: Jessica.mace@canada.ca
Subject: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Jessica,

Hope this finds you well and that you've had a nice summer. The purpose of this message is to advise that the City of Yellowknife (the City) has retained AECOM Canada Ltd. (AECOM) to conduct a geotechnical investigation as part of the pre-design work required for the City of Yellowknife Submarine Waterline Replacement Project and Lift Station No. 1 replacement project. The project(s) will perform geotechnical drilling on three parcels of Municipal Land currently used for City of Yellowknife water conveyance infrastructure and at locations along the Pumphouse No. 2 Access Road and the Ingraham Trail (Hwy 4)

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McPherson, Morag

From: Huck, Erin
Sent: Wednesday, August 31, 2022 11:55 AM
To: Irwin, Geneva
Subject: RE: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Geneva

Super, thanks for the reply.

Best,

From: Irwin, Geneva <geneva.irwin@rcaanc-cirnac.gc.ca>
Sent: August 31, 2022 12:43 PM
To: Huck, Erin <Erin.Huck@aecom.com>
Subject: [EXTERNAL] RE: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Erin,

Thanks for checking in – there were no concerns from the team!

Thanks,

Geneva

From: Huck, Erin <Erin.Huck@aecom.com>
Sent: Wednesday, August 31, 2022 11:24 AM
To: Irwin, Geneva <geneva.irwin@rcaanc-cirnac.gc.ca>
Subject: FW: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Geneva

Hope all is well. I'm following up on last week's call (08/23) regarding the proposed geotechnical investigation AECOM Canada Ltd (AECOM) will conduct on behalf of the City of Yellowknife as part of pre-design work for the City of Yellowknife Waterline Replacement Project.

You mentioned you were circulating to colleagues on the Giant Mine Aquatic Advisory Committee – as discussed, please don't hesitate to let us know if any questions arise!

Best,
Erin

From: McPherson, Morag
Sent: Monday, August 22, 2022 1:31 PM
To: geneva.irwin@rcaanc-cirnac.gc.ca
Subject: FW: City of Yellowknife 2022 Geotechnical Drilling Program

Hi Geneva!

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To: Jessica.mace@canada.ca

Subject: City of Yellowknife 2022 Geotechnical Drilling Program

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