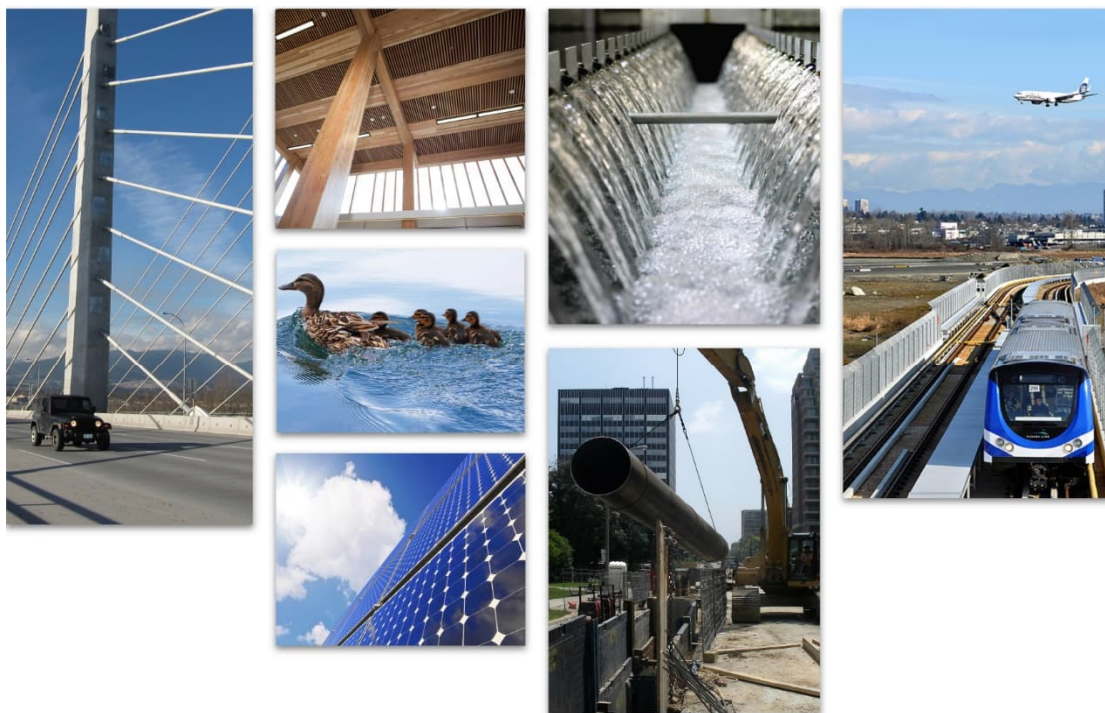


REPORT

Government of Northwest Territories
Department of Infrastructure

Hay River Harbour Restoration –
Engagement Plan (Version 2.1)
2023-8461



APRIL 2024

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REVISIONS PAGE

This plan was submitted as part of the Government of Northwest Territories – Department of Infrastructure regulatory process for the restoration of Hay River and was current at the time of submission. Once the Emergency Type B water licence is issued, the plan will continue to guide engagement activities required over the life of the project, particularly in respect to any changes to dredging operations or regulatory requirements. The plan will be reviewed and updated as required by the Mackenzie Valley Land and Water Board.

Hay River Harbour Restoration –
Engagement Plan (Version 2.1)2023-8461

Client:	Consultant:
Government of Northwest Territories Department of Infrastructure	Associated Environmental Consultants Inc.

Revision/ Issue	Date	Description	Prepared by/ Reviewed by	Client Review
1	2023-04-03	Submission for MVLWB water licence application	Associated	GNWT-INF
2	2023-12-20	Annual plan review and update	Associated	GNWT-INF
3	2024-04-04	Submission for MVLWB annual review	Associated	GNWT INF
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LIST OF ABBREVIATIONS

Abbreviation	Definition
CCG	Canadian Coast Guard
DFO	Fisheries and Oceans Canada
ECCC	Environment and Climate Change Canada
ENR	Environment and Natural Resources
GNWT	Government of Northwest Territories
HRMGC	Hay River Métis Government Council
INF	Department of Infrastructure
KFN	Katl'odeeche First Nation
MVLWB	Mackenzie Valley Land and Water Board
MVRMA	Mackenzie Valley Resource Management Act
NWTMN	Northwest Territories Métis Nation
TC	Transport Canada

1 OVERVIEW

This engagement plan describes how the Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) has proceeded to inform and engage with residents, potentially affected parties, and other stakeholders in preparing regulatory applications to conduct dredging in the Hay River Harbour. The plan includes background on the proposed emergency dredging activities and regulatory requirements, as well as details on the objectives of pre-engagement, the identification of affected parties, the methods used for engagement, engagement outcomes, ongoing engagement, and proposed future methods for engagement.

2 BACKGROUND

Under the *Waters Act*, the GNWT-INF requires a Type B water licence from the Mackenzie Valley Land and Water Board (MVLWB) to work in water to remove sediment and store it on land. The GNWT-INF is applying for the Type B Water Licence under the Emergencies Excluded clause, s.119(b) of the *Mackenzie Valley Resource Management Act* (MVRMA), such that no preliminary screening, environmental assessment, or environmental impact review is required to be conducted based on the emergency requirements for the viability of the critical marine supply chain and to protect residents' health and safety and property. The project will increase available clearance under marine vessels that is necessary for marine navigation, to maintain the marine resupply route.

The Type B water licence application consists of a series of four management and monitoring documents, which are listed later in Section 6 of this plan. The content of these documents provided the basis for most of the engagement materials and discussions.

Fisheries and Oceans Canada (DFO) has been providing feedback throughout the project. The DFO has made recommendations on timelines based on fish migration within the project footprints. A request for project review was submitted to the DFO that addresses the project description; fish habitat, migration, and spawning; and the mitigative measures to reduce the impacts to fish. The project review is regulated under the *Fisheries Act* and *Species at Risk Act*.

The GNWT-INF has also maintained communications with Transport Canada as the scope is considered a minor work, regulated under the *Canadian Navigable Waters Act*. Virtual meetings were conducted with Transport Canada at the project design phase.

The GNWT-INF undertook two types of engagement: one with the public and potentially affected parties, as required by the MVLWB, and one informal process with regulators. The engagement with regulators was done through email and virtual discussion. This allowed the regulators to become informed about the project and to review and comment on draft licence documents in advance of the formal regulatory review process.

This plan describes in detail only the engagement with the public and potentially affected parties prior to submission of the Engagement Plan as part of the Type B Water Licence application. Engagement and consultation conducted after submission of the Engagement Log in June 2023 is listed in Appendix B.

3 ENGAGEMENT PLAN

The engagement process was guided by the following objectives:

- To gather feedback from the public, stakeholders, and indigenous governments and organizations, so that potential adjustments or mitigations to the design can be considered;
- To further understand potential concerns regarding how the project could impact traditional land use or other important values;
- To increase the stakeholder and public understanding of the GNWT-INF's proposed dredging plans in the Hay River Harbour;
- To increase confidence that the proposed dredging project will protect public safety and minimize impacts to the surrounding land, water, and environment;
- To improve the thoroughness and overall quality of the Emergency Type B water licence application; and
- To fulfill the MVLWB's pre-application engagement requirements and the requirement for engagement and communication as part of the Minor Works Order under Transport Canada.

Notification letters were submitted to each group and to other various stakeholders between February 13 and 22, 2023. The letter provided highlights of the proposed work, requested their response as to whether they wanted to be included in the engagement process, offered to speak to them individually, and asked how they would like to interact (i.e., in person or virtual meetings, emails or attending our public sessions). GNWT-INF followed-up with the potential affected parties as listed in the engagement log (Appendix A).

A notification letter was emailed on March 1 to inform about a public information session. A follow-up was distributed on March 9, 2023.

The public sessions provided technical and regulatory details about the project and a translator with whisper headsets was provided.

4 IDENTIFICATION OF POTENTIALLY AFFECTED PARTIES

The GNWT-INF developed a comprehensive list of stakeholders. Table 4-1 shows the groups who received a formal notification of the GNWT-INF's plans for licence application and were invited to provide feedback. These groups also received regular updates about information materials produced by the GNWT-INF and about opportunities for engagement both public and on an individual basis.

Table 4-1 Potentially Affected Parties and Stakeholders

Potentially Affected Parties	
<i>*Based on proximity and likely strength of impacts</i>	
• Dehcho First Nation	• Jean Marie River First Nation
• Deh Gah Got'ie First Nation	• Ka'agee Tu First Nation
• Denínu Kúé First Nation	• Katl'odeeche First Nation
• Fort Providence Métis Council	• North Slave Métis Council

Potentially Affected Parties	
<i>*Based on proximity and likely strength of impacts</i>	
<ul style="list-style-type: none">• Fort Providence Resource Management Board• Fort Resolution Métis Council• Fort Resolution Métis Government• Fort Simpson Métis Council• Fort Simpson Métis Local #52• Fort Smith Métis Council• Hamlet of Fort Providence• Hamlet of Fort Resolution• Hay River Métis Government Council	<ul style="list-style-type: none">• North Slave Métis Alliance• Northwest Territory Métis Nation• Pehdzeh Ki First Nation• Residents of Hay River• Sambaa K'e Dene Band• Town of Hay River• Tu'Cho Fishers Cooperative• West Point First Nation• Łı́ı́ı́ Kúę First Nation

Table 4-2 lists the regulatory parties who were invited to participate in a pre-water licence application review to help increase the overall quality and timelines for the water licence submission.

Table 4-2 Regulatory Agencies Invited for Pre-water Licence
Application Review

Regulatory Agencies
<ul style="list-style-type: none">• Environment and Climate Change Canada• Transport Canada• Fisheries and Oceans Canada• GNWT-ENR water resource officers• GNWT - Prince of Wales Northern Heritage Centre• GNWT-ENR Lands• GNWT-ENR Environmental Assessment and Monitoring• GNWT – Industry, Tourism, and Investment• Municipal and Community Affairs• Crown–Indigenous Relations and Northern Affairs• Canadian Coast Guard

ENR – Environment and Natural Resources

GNWT-ENR water and regulatory assessment staff reviewed and provided comments on the monitoring plan and waste management plan before it was finalized and submitted to the MVLWB as part of the emergency water licence application.

5 CONSULTATION WITH INDIGENOUS GOVERNMENTS

On February 28, 2023, Minister Diane Archie distributed a letter to initiate a consultation process with potentially affected Indigenous Governments and Organizations, and to delegate a senior official from GNWT for the project. A follow up letter was distributed with project details and a map the proposed dredging project and for their asserted or established Aboriginal and/or Treaty Rights.

Consultation occurred via a virtual meeting between GNWT-INF and KFN on March 17, and April 3, 2023. Consultation is ongoing between KFN and GNWT-INF.

Hay River Métis Government Council (HRMGC) and Northwest Territories Métis Nation (NWTMN) also requested consultation. A virtual meeting occurred on March 29, 2023.

The general topics discussed during consultation included the following:

- Economic opportunities related to the project.
- Dredging timeline and potential interference with fishing activities at the end of August.
- Environmental quality of sediment, and potential impacts from stockpiling on Vale Island.
- Opportunities for re-use of soils.
- Environmental monitoring.

Additional details, and further consultation conducted after the 2023 dredging program are included on the Consultation and Engagement Log (Appendix B), but is summarized as follows:

- Ongoing consultation with the Canadian Coast Guard (CCG) to discuss location of the channel, long-term channel width, ability to adjust navigation buoys, and coordination of dredging work with CCG operations (November 2023).
- In person and virtual meeting with the Commercial Fishers to provide update on the project and gather feedback on the 2024 dredging program (December 6 2023).
- In person meeting with the Town of Hay River to provide update on the project and gather feedback on the 2024 dredging program (December 6 2023).
- In person and virtual meeting with the KFN to provide update on the project and gather feedback on the 2024 dredging program (December 5 2023).
- Virtual Teams meeting with the WPFN to provide update on the project and gather feedback on the 2024 dredging program (December 11 2023).
- In person public engagement session in Hay River (December 13 2023).
- Virtual Teams meeting with DFO to initiate discussions about DFO timing windows and starting the program earlier in the season (December 19 2023).

6 ENGAGEMENT TOPICS

The water licence information was broken down into the following topic areas during the public information sessions and individual discussions:

- Proposed project design
- Regulatory requirements
- Fish and fish habitat assessment
- Spill contingency plan
- Waste management plan
- Sediment erosion control plan
- Monitoring plan

Two public information sessions were held at the Ptarmigan Inn in Hay River on March 13 and March 14, 2023. Potentially affected parties and stakeholder were notified about the sessions on March 1, 2023. Two advertisements were also posted prior to the public information sessions in the Hay River Hub on March 1 and 8, 2023, and L'Aquilon on February 27 and March 6, 2023. Attendees for both sessions are included on the sign-in sheets included in Appendix C.

The public engagement sessions were presented in plain language, and additional details and information were made available as fact sheet handouts (Appendix D).

- The following application documents were offered for review and comments throughout the engagement process:
- Waste management plan – defines the types of waste that will need to be managed and outlines the strategies and procedures to be used for managing that waste.
 - Spill contingency plan – provides the response plans and procedures in case of a spill or an unplanned release of potentially hazardous materials during dredging.
 - Sediment and erosion control plan – outlines the plans and procedures for handling sediment during dredging and stockpiling of materials.
 - Monitoring plan – provides details on the monitoring procedures for water and sediment.
 - Request for review – was submitted to DFO for authorization of works under the *Fisheries Act*.
 - Minor works order – met through project engagement for the water licence application and verified through communications with Transport Canada.

A follow-up public information session was held at the Community Center in Hay River on December 13 2023. Notice of the meeting was provided to stakeholders through email and posted on the GNWT INF social media. Attendees for the commercial fishers meeting (described in Section 5) and the public information session are included in Appendix C. The factsheets that were available for these meetings are also provided in Appendix D.

7 METHODS

The GNWT-INF took a proactive and comprehensive approach to engagement. Notably, the GNWT-INF reached out to a broad range of potentially affected parties and offered various information-sharing, engagement and consultation activities. Table 7-1 outlines the key elements and timing of the engagement approach prior to submission of the Type B Water Licence Application. Appendix C includes the list of attendees from the public information sessions, and Appendix D includes factsheets provided as handouts.

Table 7-1 Summary of Engagement Approaches

Activity	Details	Timing
Notification	Potentially affected parties were contacted via phone and email in advance of the notification email to confirm contact information. Each party was called after the notification email was sent to confirm receipt.	Email and phone: February 13 to 22, 2023
	A notification letter was submitted to each potentially affected party using confirmed points of contact.	Email notification: February 17 to 22, 2023

Activity	Details	Timing
	A formal letter was submitted to Indigenous Governments and Organizations that could be potentially affected by the dredging project.	Email March 1, 2023.
Media Advisory	A quarter page announcement was published in the L'Aquilon (territorial newspaper).	February 27 and March 6, 2023
	A quarter page announcement was published in the Hay River Hub (local newspaper)	March 1 and 8, 2023
Plain language factsheets	A series of plain language factsheets (Appendix D) were developed on the key topic areas. The factsheets were provided as handouts at the public information sessions and emailed to affected parties at their request.	March 13 and 14, 2023
Public information session	Two 2-hour information sessions with open discussion periods were hosted at the conference room at the Ptarmigan Inn in Hay River.	March 13 and 14, 2023
Virtual meetings/calls with affected parties	Meetings were conducted with representatives from KFN.	March 17 and April 3, 2023
Virtual meetings/calls with affected parties	Meetings were conducted with representatives from NWTMN and HRMGC.	March 29, 2023
Virtual meetings with regulators	Meetings were conducted with GNWT-ENR, DFO, ECCC and Transport Canada.	February 16 to 22, 2023

8 ENGAGEMENT OUTCOMES

Positive feedback and input were received during the two public information sessions conducted on March 13 and 14, 2023. General comments received about the presentation were that the scope was well planned, detailed, and comprehensive. The general responses from the participants were that they supported the program and had no significant concerns related to the emergency water licence application.

The participants asked several questions, with the following key areas of interest:

- Who would conduct the work, and timing of an expression of interest or request for proposals by GNWT.
- Inquiring details on weather-related logistics (i.e., wind, weight of barges) and project sequencing to meet the required dredging volumes.
- Potential reuse options for the sediment.
- Where the funding is coming from.
- Whether there is potential for continuation of the program into the future (i.e., yearly, in winter).
- Will there be preliminary work in the spring (i.e., monitoring, sampling) prior to project start up.
- Is there a potential for opposition from outside parties or affiliations that do not reside in Hay River or the NWT.

The participants were mostly in favour of the work, commenting that the community has been asking for dredging to occur and understands that it is needed. Representatives from the Town of Hay River also offered to post application updates on their website to the public.

General feedback from the December project update and engagement meetings are that this work needs to be completed as soon as possible, and KFN, WPFN and the Commercial Fishers noted that fish movement in the project area is not a concern once the ice has melted. It has been suggested by multiple parties that the on-water work should begin earlier in the season.

9 LIFE OF PROJECT ENGAGEMENT

The GNWT-INF is committed to engaging with residents and potentially affected parties throughout the duration of the project and the emergency Type B water licence application process.

9.1 Engagement Triggers

The following is a list of example topics that may warrant further engagement with the public, affected parties and/or stakeholders:

- Changes to the DFO allowable timeline;
- Changes to the management plans;
- Updates on the dredging progress;
- Further studies and analysis of water and soil quality analysis; and
- Potential reuses of soils.

Table 9-1 presents triggers that may warrant further engagement with the potentially affected parties, stakeholders, and consultation with Indigenous Governments, and Organizations throughout the application process.

Table 9-1 Potential Triggers for Engagement Throughout the Water Licence Application

Trigger	Purpose
Pre-application agreements	Develop relationships with potentially affected parties to understand their concerns.
Water licence application submission	Distribute information to potentially affected parties for further input.
Water licence approval	Inform potentially affected parties.
Changes or mitigations to the water licence conditions	Inform stakeholders and potentially affected parties.
Other - as required by MVLWB	Distribute information potentially affected parties to allow the opportunity for further input.

Engagement requirements may also be triggered during the following construction activities, as listed in Table 9-2.

Table 9-2 Potential Triggers for Engagement During Construction Activities

Trigger	Purpose
Selection of contractor	Inform affected parties.
One month prior to start of dredging activities	Inform affect parties and public of anticipated start date
Changes to the dredging window -project timeline	Discuss timing, and any specific issues with contractors and potentially affected parties
Spill incident, including spills reported to the spill hotline	Inform regulators, affected parties, and communities
Changes to a management plan or the monitoring plan	Inform potentially affected parties
Issuance of the Annual Report (including the Monitoring Report)	Inform potentially affected parties
Updates on the dredging progress	Inform the communities and potentially affected parties.
Sediment quality results and potential reuses of the sediment	Inform community and potentially affected parties.

The methods for notifications for triggers will be provided in writing, unless otherwise requested.

9.2 Engagement Methods

The GNWT-INF used the following approach to pre-engage with potentially affected parties:

- Email notifications: Affected parties were emailed with project notification and public information session dates.
- Factsheets: Plain language factsheets were provided at the public sessions as handouts.

- Public engagement session: Two sessions were held in the Town of Hay River before the submission of the water licence application.
- Regular meetings and consultation with affected parties and regulators: Meetings were used for transparency and to gain feedback about any potential issues that could affect the water licence application.

The GNWT-INF will use the following approach to continue engagement with potentially affected parties:

- Webpage updates: The GNWT-INF will post updates on its webpage once the water licence has been approved and to provide progress of the project.
- Factsheets: Plain language factsheets will be uploaded to the GNWT webpage once the water licence has been approved and are available to be emailed upon request.
- Email notifications: Potentially affected parties will be emailed with updates directly, when appropriate.
- Regular meetings and consultation with affected parties and regulators: The GNWT-INF is committed to continue consultation and meet with potentially affected parties to gain feedback about any potential issues related to the dredging project.

Engagement activities and updates will be selected and designed to meet the same objectives as stated earlier in this plan to provide:

- Awareness to the public and stakeholders about what the project;
- Context and rationale for the GNWT-INF actions and decisions; and
- Answer to potential questions and to receive and consider feedback on these activities and decisions.

CLOSURE

This engagement plan was originally prepared for the Government of Northwest Territories – Department of Infrastructure to summarize the engagement activities for submission of a Type B water licence application to the Mackenzie Valley Land and Water Board. Appendix B of this report provides updates in winter 2023 to reflect continued engagement and consultation activities.

The services provided by Associated Environmental Consultants Inc. in the preparation of this report were conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practising under similar conditions. No other warranty expressed or implied is made.

Respectfully submitted,

Associated Environmental Consultants Inc.

Prepared by:

A handwritten signature in black ink, appearing to read 'Rebekka Lindskoog', with a long, sweeping horizontal line extending to the right.

Rebekka Lindskoog, R.P.Bio
Manager, Northern Environment

APPENDIX A – SAMPLE LETTERS OF NOTIFICATION

February 21, 2023

TEL: 867.920.4074
FAX: 604.291.6163

<Name>
<Title>
<Organization>
<Address>

Re: NOTIFICATION OF ENGAGEMENT FOR RESTORATION IN THE HAY RIVER HARBOUR

Dear <Name>:

The Government of Northwest Territories – Department of Infrastructure (GNWT-INF) would like to advise <Prgranization> that it has begun the regulatory process and planning for dredging the marine transportation channel in the Hay River Harbour. Anticipated regulatory permits or authorizations include:

- Type B Water Licence from the Mackenzie Valley Land and Water Board (MVLWB), regulated under the *Waters Act*.
- Minor Works Order from Transport Canada, regulated under the *Canadian Navigable Waters Act*.
- Project Review from the Department of Fisheries and Oceans Canada (DFO), regulated under the *Fisheries Act* and the *Species at Risk Act*.

Pre-application public engagement with residents, stakeholders, and regulators (affected parties) is an important part of the application process. The GNWT-INF is committed to communicating their plans so that the affected parties can:

- Be made aware of project and regulatory permitting applications.
- Have the opportunity to inform themselves about the project, and what the GNWT-INF is proposing, and
- Provide input into the project, in advance of the applications submitted to the MVLWB, Transport Canada, and DFO.

1 PROJECT TIMELINE

The GNWT-INF requires the approvals or submissions for the water licence, minor works order and project review prior to any dredging within the Hay River Harbour Channel. We anticipate concluding our pre-application engagement by mid-March 2023 to be able to complete the regulatory applications and submit them to the MVLWB, Transport Canada, and DFO after engagement is complete. This should allow enough time for the regulatory processes to be completed prior to starting the proposed dredging mid-July, 2023.

2 PROJECT DESCRIPTION

In 2022, the Hay River experienced unusually high-water levels resulting in increased sediments being deposited within the Hay River Harbour and Great Slave Lake. The sediment, which has not been dredged since 1997, has begun to fill the marine navigation channel between Great Slave Lake and the Hay River Harbour. This has caused an emergency scenario, since the shallow water within the navigation channel poses a risk to boats (i.e., sea barge, Coast Guard, fishing, and recreational vessels) getting stuck in the sediment deposit and not being able to enter or exit the Hay River Harbour. Removing sediment so boats can travel within the navigation channel is critically important. If boats are not able to enter or exit the Harbour, there could be severe supply interruption to up to 12 communities who rely on the sea-barge system to supply essential goods, and fuel for power and heat.

The GNWT-INF is working on a compressed timeline to meet the regulator requirements to start restoring the navigation channel by mid-July, 2023. Dredging is proposed to be completed by local contractors, in coordination with GNWT-Marine Transportation Services (MTS) to mechanically excavate a 30 m wide and 2.2 m deep navigation channel for emergency use. The excavated sediment from the navigation channel would be loaded onto the barges, allowed to passively dewater, and when the barge is at capacity, would be offloaded to dump trucks located on-shore. The dump trucks would transfer the sediment to GNWT-MTS properties on Vale Island. The sediment would be temporarily stored on Vale Island, for ongoing passive dewatering. The sediment may be made available for public use, if appropriate, or would be transferred to a final management area. Current laboratory analysis shows that the sediment quality are within environmental criteria and also have physical properties that may be useful for fill materials.

GNWT-INF is committed to the environment and will be following required environmental processes to mitigate potential environmental impacts from this project.

As part of the regulatory processes, environmental planning and mitigation will form part of the regulatory applications.

3 SCOPE OF THE REGULATORY APPROVALS

The water licence scope of work includes, but is not limited to:

- Preparing and submitting a water licence application form to MVLWB.
- Liaising with Regulators to provide technical information about the project and to plan for environmental requirements and expectations.
- Submitting a Spill Contingency Plan, Waste Management Plan, Sediment and Erosion Plan, and Engagement Plan.

The minor works order scope of work includes, but is not limited to:

- Uploading project information to the registry for a minor works order for Transport Canada.
- Liaising with Transport Canada to discuss technical information about the project and to plan for navigational considerations and expectations.

The Project Review scope of work includes, but is not limited to:

- Preparing and submitting a Request for Project Review to DFO, and if required, a Fisheries Authorization to DFO.
- A fish habitat assessment.
- Liaising with DFO to discuss scientific and technical information about the project and to plan for environmental requirements and expectations.

4 ENGAGEMENT APPROACH

The GNWT-INF is committed to ensuring that the public can access information about the regulatory applications as they are developed and to provide input in ways that are appropriate to their level of interest and respectful of the different organizations and their capacities.

To plan our engagement appropriately, we would request your response to the following questions by **February 24, 2023**, if possible. Responses can be provided in writing to HR-DredgingEngagment@ae.ca.

1. Are you interested in receiving and reviewing documentation related to the GNWT-INF's water licence application, the minor works order, or fisheries project review? If so, would you like to receive all application documents, or only documents in specific areas of interest?
2. Are you interested in providing feedback on the applications prior to submission to the MVLWB, Transportation Canada or DFO? If so,
 - a. Would you prefer to provide your feedback in writing, or through an approach of dialogue by phone?
 - b. Are you interested in providing input on the entire application, or only on specific areas of interest?
3. Do you have any specific questions or topics of interest that you would like to identify at this stage to assist the GNWT-INF with planning appropriate engagement?
4. Please identify the key point of contact that we should be using for engagement on this project and provide their complete title, address, email address and telephone number.
5. We are planning to hold a public information session in Hay River, NT early-March, 2023. If your schedule allows, will you or someone from your organization attend the meeting in person? If so, does your organization have any specific COVID-19 considerations or guidelines that we should be aware of?

The GNWT-INF would like to thank you in advance for providing this information and we look forward to continuing our dialogue with you on this important project. Should you have questions related to the engagement approach for this project, please email or call the engagement consultant supporting GNWT-INF:

HR-DredgingEngagment@ae.ca

(778) 506-2160

Yours truly,

Jennifer Brown
Associated Environmental Consultants, on behalf of GNWT-INF

RK

Jennifer Brown

From: Briana Laybolt on behalf of Hay River Dredging
Sent: March 1, 2023 6:16 AM
Cc: Joyce Gourlay; Jennifer Brown
Subject: Community Engagement Session - Hay River Harbour Restoration- March 13 & 14, 2023

Good afternoon,

The Government of Northwest Territories will be holding information sessions to discuss the proposed Hay River Harbour Restoration Project anticipated for the summer of 2023.

The project will involve dredging select sections in the East Channel and the outfall in Great Slave Lake that are most impacted with sediment.

The sessions are open to the public. Come join us to share your feedback and ask questions. Refreshments will be provided.

Where: Ptarmigan Inn Conference Room at 10 Gagnier Road, Hay River, NT

When: Monday, March 13 from, 6:30-8:30 p.m. and
Tuesday March 14th from 9:30- 11:30 a.m.

Briana Laybolt, P.Ag.
Environmental Scientist
Associated Environmental Consultants Inc.
#200-2800 29th Street, Vernon, BC V1T 9P9
Tel: 250.545.3672 | Cell: 778-212-1994



Platinum member



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APPENDIX B – CONSULTATION AND ENGAGEMENT LOGS

Consultation Tracking Summary/Log - Aboriginal

IGO	Date	Type of Interaction	Comment
<p><i>Name of IGO individual you are communicating with (Select from drop-down list based on Notification List)</i></p> <p><i>Note: Only IGOs selected in the Notification List will be available for selection in the drop-down. You may have to scroll up in the drop-down list to see the IGOs.</i></p>	<p><i>Date of interaction (MM/DD/YYYY)</i></p>	<p><i>Type of Activity / Interaction Select from drop down list</i></p>	<p><i>Describe interaction Attempts that were not successful, whether a response was received or not, etc.</i></p>
Northwest Territory Métis Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Fort Resolution Métis Council	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Hay River Métis Government Council	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Jean Marie River First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Káit'odeeche First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Dehcho First Nations	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Deh Gah Got'ie First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.

Fort Providence Métis Council	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Fort Simpson Métis Local #52	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Łı́ı́dlı́ Kúę First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Ka'agee Tu First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
West Point First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Sambaa K'e Dene Band	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Pehdzeh Ki First Nation	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Fort Smith Métis Council	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
North Slave Métis Alliance	2023-02-28	Notification letter sent	Notification letter sent from Minister Archie, initiating consultation and delegating the senior official that will be following up with them.
Kátł'odeeche First Nation	2023-03-01	Email received	Chief Martel responded thanking Minister Archie for the letter.
Fort Smith Métis Council	2023-03-01	Email received	Chief Heron forwarded the notification letter to Jason E.Lepine, General Manager. Jason responded and identified himself as the contact going forward, and stated that due to the distance from the project, they defer to the Hay River Metis Government Council. Jason requested they be copied on any further information or issuances.

Hay River Métis Government Council	2023-03-06	Delegation letter received	President Trevor Beck replied via email identifying himself and the Hay River Metis Government Council as the point of contact for the Hay River Metis Government Council and the Northwest Territory Metis Nation.
Fort Resolution Métis Council	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Hay River Métis Government Council	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Jean Marie River First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Kát'odeeche First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Dehcho First Nations	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Deh Gah Got'ie First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Fort Providence Métis Council	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Fort Simpson Métis Local #52	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.

Łııdlı Kúę First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Ka'agee Tu First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
West Point First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Sambaa K'e Dene Band	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Pehdzeh Ki First Nation	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
North Slave Métis Alliance	2023-03-09	Letter sent	Letter sent with further information, project details, and a map. Letter requested that any impacts to asserted or established Aboriginal and/or Treaty Rights and possible accommodations be identified.
Hay River Métis Government Council	2023-03-10	Email received	President Trevor Beck requested a meeting to discuss project details
Hay River Métis Government Council	2023-03-10	Email sent	Replied to President Trevor Beck suggesting a few in-person meeting availabilities with the team. President Beck responded and said they were not available at those times. Replied again requesting dates that would work for them in the coming week.
Fort Resolution Métis Council	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Jean Marie River First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Dehcho First Nations	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.

Deh Gah Got'ie First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Fort Providence Métis Council	2023-03-17	Phone call	Called but no response. Unable to get through.
Fort Simpson Métis Local #52	2023-03-17	Phone call	Spoke to front desk and they identified that President Sibbeston had resigned, but the letters had been received by acting staff, Josh Campbell.
Łı́ıdlı́ Kúę First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Ka'agee Tu First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
West Point First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Sambaa K'e Dene Band	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Pehdzeh Ki First Nation	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
North Slave Métis Alliance	2023-03-17	Phone call	Left a message asking if they received both letters and if they had any questions or concerns.
Katlodeeche First Nation	2023-03-17	Virtual Meeting	INF met with KFN to provide initial overview presentation and introduce the project. Information provided about the project proposed methodology, mitigation measures, monitoring, management plans, regulatory requirements, etc.
Fort Simpson Métis Local #52	2023-03-20	Phone call	Josh Campbell called and left a voicemail.
Fort Simpson Métis Local #52	2023-03-21	Phone call	Called but no answer. Left a voicemail.
Hay River Métis Government Council	2023-03-21	Email sent	Emailed President Trevor Beck to request any times the HRMGC would be available for a meeting.
Fort Simpson Métis Local #52	2023-03-22	Phone call	Called and spoke with Josh Campbell. Stated that President Sibbeston had resigned but he received both letters and reviewed them with board members. They identified that they had no concerns and would defer to the Hay River Metis Government Council.

Hay River Métis Government Council	2023-03-23	Email sent	Emailed President Trevor Beck to request any times the HRMGC would be available for a meeting.
Fort Resolution Métis Council	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Jean Marie River First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Dehcho First Nations	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Deh Gah Got'ie First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Fort Providence Métis Council	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Łı́ı́dlı́ Kúę First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Ka'agee Tu First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
West Point First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Sambaa K'e Dene Band	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Pehdzeh Ki First Nation	2023-03-23	Email sent	Emailed to confirm receipt of the previous two letters and to reach out if they have any concerns or questions.
Fort Resolution Métis Council	2023-03-23	Email received	President Arthur Beck replied and stated that they support the project.
Hay River Métis Government Council	2023-03-24	Email received	President Trevor Beck replied and suggested a meeting date.
Deh Gah Got'ie First Nation	2023-03-24	Phone call	Called but no answer. Left a voicemail.
Dehcho First Nations	2023-03-24	Phone call	Spoke with Alison de Pelham and they said that they have no comment on the Hay River Harbour Restoration and they defer to the local Indigenous Governments.
Fort Providence Métis Council	2023-03-24	Phone call	Called but no answer. Busy tone.
Jean Marie River First Nation	2023-03-24	Phone call	Called but no response. Left a voicemail message.

Pehdzeh Ki First Nation	2023-03-24	Phone call	Sharon their land manager is out until Monday. Try back then.
West Point First Nation	2023-03-24	Phone call	Spoke with reception and they suggested I forward the letters to them so they can add it to the Chief and Councils agenda for their next meeting on March 27, 2023.
West Point First Nation	2023-03-24	Email sent	Forwarded the email and letter packages to reception so the project can be discussed at the next meeting.
Dehcho First Nations	2023-03-24	Phone call	Emma called to confirm I had been able to get in touch with Alison.
Sambaa K'e Dene Band	2023-03-24	Phone call	Ruby is out of office till Monday, try again then.
Łı́ı́dlı́ Kúę́ First Nation	2023-03-24	Phone call	Called but no response. Left a voicemail message.
Ka'agee Tu First Nation	2023-03-24	Phone call	Spoke with Chief Chicot, he confirmed that the letters were received and have been reviewed. So far no comments or concerns. If they do have comments or concerns he will reach out to INF to discuss.
Fort Providence Métis Council	2023-03-27	Phone call	Called to ask if letters were received. Pearl advised that she would get back to me tomorrow Mar 28.
Deh Gah Got'ie First Nation	2023-03-27	Phone call	Called but no response. Left a message.
Jean Marie River First Nation	2023-03-27	Phone call	Called and spoke to Chief Hardisty. They received the letters and have no concerns or comments.
Łı́ı́dlı́ Kúę́ First Nation	2023-03-27	Phone call	Called but no response, left message with Chief Antoine.
Sambaa K'e Dene Band	2023-03-27	Phone call	Spoke with Ruby and they have no concerns because of the distance of the project.
Pehdzeh Ki First Nation	2023-03-27	Phone call	Spoke with reception, they advised to try calling back tomorrow Mar 28.
Fort Providence Métis Council	2023-03-28	Phone call	Spoke with Pearl, she advised that the letters had been received and had been distributed for review to the directors. She said that there likely wont be any concerns because of the distance of the project and as long as INF follows all the regulatory guidance and rules, but would get back to INF if anything came up. INF advised that we will be applying for water licences ideally this week, as a heads up, but to feel free to reach out at any point.

Pehdzeh Ki First Nation	2023-03-28	Phone call	Spoke to reception and they will check if Chief Moses and the Band Manager, Darcy, received the letters and ask them to get back to INF.
Pehdzeh Ki First Nation	2023-03-28	Email sent	Emailed to follow up
West Point First Nation	2023-03-28	Phone call	Spoke to reception and they advised that there were no concerns or comments that came out of the meeting on Mar 27.
West Point First Nation	2023-03-28	Email sent	Sent email to follow up on letters and confirm whether they had any questions or comments following their meeting on Mar 27.
Pehdzeh Ki First Nation	2023-03-29	Email received	Chief Moses responded by email and noted concerns about how we will keep debris from entering the river.
Pehdzeh Ki First Nation	2023-03-29	Email received	Responded to Chief Moses' concerns, provided information sheets about our Sediment and Erosion Control Plan as well as Monitoring Plan, and briefly explained the methods we will use to prevent sediment from reaching the river.
Deh Gah Got'ie First Nation	2023-03-29	Phone call	No response, left a voicemail with reception.
Hay River Métis Government Council	2023-03-29	Virtual Meeting	INF met with HRMGC to provide project overview and introduction.
Hay River Métis Government Council	2023-03-29	Email sent	INF emailed Dr Ron Yaworsky a copy of the powerpoint presentation.
Katlodeeche First Nation	2023-04-03	Virtual Meeting	INF had a joint meeting with DFO and KFN to discuss ongoing concerns RE dredging and impacts to fish and fish habitat, as well as a discuss about the overall project.
Hay River Métis Government Council	2023-04-12	Email sent	Ongoing email correspondence with President Trevor Beck and Dr Ron Yaworsky to schedule a meeting to discuss the project. INF sent link to the Expression of Interest event opportunity.
Hay River Métis Government Council	2023-04-13	Email sent	Ongoing email correspondence with President Trevor Beck and Dr Ron Yaworsky to schedule a meeting to discuss the project.
Hay River Métis Government Council	2023-04-19	Email sent	Ongoing email correspondence with President Trevor Beck and Dr Ron Yaworsky to schedule a meeting to discuss the project.
Hay River Métis Government Council	2023-04-21	Email sent	Ongoing email correspondence with President Trevor Beck and Dr Ron Yaworsky to schedule a meeting to discuss the project.

Hay River Métis Government Council	2023-04-24	Email sent	Ongoing email correspondence to schedule a meeting. Date picked for May 5 for a virtual meeting.
West Point First Nation	2023-05-03	Email sent	Follow up email to confirm if they had any questions or comments.
Hay River Métis Government Council	2023-05-05	Virtual Meeting	Met with President Trevor Beck and Dr. Ron Yaworsky to review the project and discuss concerns. See Meeting Minutes for further details on discussions.
Hay River Métis Government Council	2023-05-05	Email sent	Minutes from May 5 2023 meeting distributed to Dr Ron Yaworsky for review.
West Point First Nation	2023-05-26	Email received	WPFN Lands Manager responded and said that due to the emergency evacuation they would like to schedule a meeting once things have calmed down again.
West Point First Nation	2023-05-30	Email sent	INF suggested a few dates in the coming weeks to set up a meeting to discuss and sent links to information on the project. WPFN responded and provided their availability. Meeting set for June 9 2023.
Hay River Métis Government Council	2023-06-07	Email sent	INF emailed Dr Ron Yaworsky to inquire if there is interest in having a follow up meeting to continue discussions.
West Point First Nation	2023-06-09	Virtual Meeting	INF met with WPFN to provide a project summary and overview, sent information to WPFN, and discussed any concerns they may have.
Hay River Métis Government Council	2023-06-09	Email sent	Follow up email sent to HRMGC to inquire about meeting times and dates.
Hay River Métis Government Council	2023-06-10	Email received	President Beck sent an email with concerns that dredging had begun prior to regulatory approvals or economic involvement. INF responded and clarified that there is a separate undertaking occurring at the Marine Transportation Services barge docks, and that this project has not begun work.
Hay River Métis Government Council	2023-06-12	Email sent	INF responded and clarified that there is a separate undertaking occurring at the Marine Transportation Services barge docks, and that this project has not begun work.
Hay River Métis Government Council	2023-06-12	Email sent	INF emailed with a list of potential meeting times and dates. No response.
Katlodeeche First Nation	2023-06-13	Virtual Meeting	INF and KFN had a meeting scheduled, but KFN was unable to make the meeting. To be rescheduled.
Katlodeeche First Nation	2023-06-14	Email sent	INF emailed with a list of potential meeting times and dates.

Katloodeeche First Nation	2023-06-16	Email received	A follow up email from the KFN stating the fish are spawning and requesting DFO/GNWT deal with this.
Hay River Métis Government Council	2023-06-20	Email sent	INF emailed with a list of potential meeting times and dates. INF noted the importance of having the economic opportunities discussion as soon as possible so that any considerations or concerns brought up could be included in contracting, as contracting is closing at end of the month. No response.
West Point First Nation	2023-06-20	Letter received	WPFN sent a letter to INF summarizing the meeting and stating they have no concerns regarding the project, that they would like to be economically involved in the project, and that the West Channel is used to fishing by residents.
West Point First Nation	2023-06-20	Email sent	INF sent WPFN the meeting minutes from the June 7 meeting.
West Point First Nation	2023-06-20	Email sent	Requested names and contact information for Environmental Auditors.
West Point First Nation	2023-06-20	Email sent	Sent minutes from the June 8 meeting
Kât'odeeche First Nation	2023-06-22	Email received	Rescheduled meeting for Monday June 26
Katloodeeche First Nation	2023-06-26	Virtual Meeting	INF and KFN had a meeting scheduled but KFN had just moved back into their office after the evacuation so INF offered to reschedule when they had more time to settle in and prepare.
Katloodeeche First Nation	2023-06-26	Email sent	INF sent KFN new meeting times and dates for Wednesday June 28.
Kât'odeeche First Nation	2023-06-26	Email sent	Rescheduled for Wednesday June 28
Hay River Métis Government Council	2023-06-27	Email sent	Follow up email sent to HRMGC to inquire about meeting times and dates. No response.
Katloodeeche First Nation	2023-06-28	Virtual Meeting	INF met with KFN to discuss economic opportunities, tender documents and package, who gets access to dredged material. INF proposed environmental auditor positions, KFN showed interest in having members participate. INF asked for them to send further details for interested individuals. KFN expressed concern about other IGs involvement and how any benefits to them are being diluted.

Kátl'odeeche First Nation	2023-06-28	Virtual meeting	Met with Alex Gresl to review the project and discuss concerns
Hay River Métis Government Council	2023-06-29	Email sent	Haven't heard back so INF suggested a few more dates in the coming week to set up an economic opportunity meeting.
West Point First Nation	2023-07-04	Email sent	INF emailed to request that WPFN provide some names for individuals that are interested in participating in the environmental auditing.
Katlodeeche First Nation	2023-07-04	Email sent	INF emailed to request that KFN provide some names for individuals that are interested in participating in the environmental auditing.
Hay River Métis Government Council	2023-07-04	Email received	HRMGC emailed to confirm meeting time for July 5 2023. INF sent meeting invitation
Katlodeeche First Nation	2023-07-04	Email sent	INF emailed with list of possible meeting dates and times. KFN asked for information on how other IGs are involved in economic opportunities.
Katlodeeche First Nation	2023-07-04	Email received	KFN responded with concerns about how other IGs are involved in economic opportunities in the project. INF suggested a meeting to discuss.
Kátl'odeeche First Nation	2023-07-04	Email sent	Requested follow-up meeting to discuss concerns about other IG involvement
West Point First Nation	2023-07-04	Email sent	Again requested names and contact information for Environmental Auditors
Kátl'odeeche First Nation	2023-07-04	Email sent	Requested names and contact information for Environmental Auditors.
Kátl'odeeche First Nation	2023-07-04	Email received	Inquiry about other IG involvement
Hay River Métis Government Council	2023-07-05	Virtual Meeting	INF and HRMGC met to discuss project and environmental auditing positions. HRMGC expressed concerns that the project is moving forward without considering them appropriately. See meeting minutes for more details.
Katlodeeche First Nation	2023-07-05	Phone call	INF called KFN to discuss the qualifications for environmental monitors and followed up with an email summarizing.
Kátl'odeeche First Nation	2023-07-05	phone call and email follow-up	INF discussion with Victoria St. Jean about hiring Guardians as Environmental Auditors
Hay River Métis Government Council	2023-07-05	Virtual meeting	Met with Trevor Beck and Ron Yaworsky to review the project and discuss concerns
West Point First Nation	2023-07-05	Email sent	Provided further information about Environmental Auditor qualifications

West Point First Nation	2023-07-07	Email sent	INF sent email to follow up on environmental auditors from WPFN.
Katlodeeche First Nation	2023-07-07	Email sent	INF sent email with details regarding how other IGs are involved.
Kátł'odeeche First Nation	2023-07-07	Email sent	INF provided information from EIA and DOJ about Aboriginal rights and economical agreements
Hay River Métis Government Council	2023-07-07	Email sent	Sent minutes from the July 5 meeting
Kátł'odeeche First Nation	2023-07-07	Email sent	Sent minutes from the June 28 meeting
Katlodeeche First Nation	2023-07-10	Email received	KFN responded with concerns about how other IGs are involved in the project.
Kátł'odeeche First Nation	2023-07-10	Email received	Received response from Peter Redvers about justification for economic agreement
West Point First Nation	2023-07-11	Email received	Wendy Ross from WPFN identified that John Sexsmith would reach out to discuss further.
West Point First Nation	2023-07-11	Email received	Response about meeting date, will get back with availability
Katlodeeche First Nation	2023-07-12	Email sent	INF sent email directing the KFN to discuss concerns with the DOJ.
Katlodeeche First Nation	2023-07-12	Phone call	INF called KFN to confirm availability for a call.
Kátł'odeeche First Nation	2023-07-12	Phone call	INF spoke with Victoria to confirm a call to discuss the Environmental Auditing program
Hay River Métis Government Council	2023-07-14	Email sent	INF followed up to discuss environmental auditors and information required to move forward with hiring.
Katlodeeche First Nation	2023-07-14	Email received	KFN requested to reschedule meeting. INF responded to reschedule and requested information from KFN regarding hiring environmental auditors.
Hay River Métis Government Council	2023-07-17	Email received	HRMGC responded to schedule a meeting and highlight difficulties with hiring from the guardian program for this season.
West Point First Nation	2023-07-18	Email sent	Coordinating phone call between WPFN and AE to discuss logistics of hiring environmental auditors.
Katlodeeche First Nation	2023-07-18	Email sent	INF emailed to schedule a call. KFN responded with their availability on July 19.
Katlodeeche First Nation	2023-07-19	Phone call	INF and KFN had a discussion regarding the logistics of hiring from the KFNs guardian program and how that would work.
Hay River Métis Government Council	2023-07-19	Email received	HRMGC emailed to say their guardians were already busy for the season and that they would like other opportunities going forwards.

West Point First Nation	2023-07-20	Email received	WPFN provided details for hiring auditors.
West Point First Nation	2023-07-24	Email sent	Associated provided subvetting request to initiate contracting for Environmental Auditors
Katlodeeche First Nation	2023-07-26	Email received	KFN responded to follow up on hiring auditors for the project, and that they have 3 individuals interested. AE responded and provided further details for the logistics of the work.
Kátł'odeeche First Nation	2023-07-26	Email received	Received email requesting details on Environmental Auditing program
Kátł'odeeche First Nation	2023-07-26	Email sent	Associated provided subvetting request to initiate contracting for Environmental Auditors
Katlodeeche First Nation	2023-07-31	Email received	KFN responded to the work logistics provided and said they will get back to INF and AE with more information.
Kátł'odeeche First Nation	2023-07-31	Email received	Received rates for Environmental Auditors
West Point First Nation	2023-08-01	Email received	WPFN provided information and resume for an individual.
Kátł'odeeche First Nation	2023-08-01	Email received	Received subvetting information
West Point First Nation	2023-08-01	Email sent	Sent reminder about subvetting information
West Point First Nation	2023-08-01	Email received	Received resume for Environmental Auditor
MVLWB	2023-08-01	Letter sent	INF sent MVLWB a letter to respond to KFN letter inquiry about the Water Licence
Kátł'odeeche First Nation	2023-08-02	Email received	Received subvetting information
Kátł'odeeche First Nation	2023-08-05	email sent	Associated provided update on delay of start date
West Point First Nation	2023-08-05	email sent	Associated provided update on delay of start date
Kátł'odeeche First Nation	2023-08-09	Email received	Victoria notified Associated that she will be out of office
Kátł'odeeche First Nation	2023-08-09	Email sent	Associated provided subcontract and the environmental audit checklist for review
Kátł'odeeche First Nation	2023-08-10	Email received	Email inquiry about start date and schedule
Kátł'odeeche First Nation	2023-08-10	Email sent	Update on schedule, likely next week once a few days in so can do a proper orientation, request for signed contract
Kátł'odeeche First Nation	2023-08-10	Email received	Questions about transportation

West Point First Nation	2023-08-10	Phone call and email follow-up	Associated provided subcontract for review, and request on subvetting information and update on schedule
Kátł'odeeche First Nation	2023-08-10	Email received	Received signed contract
West Point First Nation	2023-08-11	Email received	emails with Environmental Auditor about start date
Katlodeeche First Nation	2023-09-15	Email sent	INF sent update in distribution to all IGOs and stakeholders of the project, regarding resuming dredging following the evacuation orders and the extension granted by DFO.
Katlodeeche First Nation	2023-09-15	Email received	Two emails received in short order from KFN in response to dredging extension notice, re concern over lack of consultation and fish.
All Stakeholder list in the Engagement Plan	2023-09-15	Email sent	Sent email notification about resuming dredging
Kátł'odeeche First Nation	2023-09-15	Email received	Received response about lack of engagement for returning to dredging
West Point First Nation	2023-09-18	Email sent	INF sent email with additional details re the extension, and notice that enviro auditors cannot be retained this year but will instead shift to 2024. Offer to discuss.
Katlodeeche First Nation	2023-09-18	Email sent	INF sent email with additional details re the extension, and notice that enviro auditors cannot be retained this year but will instead shift to 2024. Offer to discuss.
Hay River Métis Government Council	2023-09-18	Email sent	INF sent email with additional details re the extension, and notice that enviro auditors will instead shift to 2024. Offer to discuss.
Katlodeeche First Nation	2023-09-18	Email sent	INF sent email with additional details re the extension, and notice that enviro auditors cannot be retained this year but will instead shift to 2024. Offer to discuss.
West Point First Nation	2023-09-18	Email sent	Sent custom email to each of the IG about resuming dredging
Kátł'odeeche First Nation	2023-09-18	Email sent	Sent custom email to each of the IG about resuming dredging
Hay River Métis Government Council	2023-09-18	Email sent	Sent custom email to each of the IG about resuming dredging
Katlodeeche First Nation	2023-09-19	Email received	KFN email with concerns about contracts, fish/fisherman knowledge, flooding, lack of consultation.
Kátł'odeeche First Nation	2023-09-19	Email sent	Sent email response about concerns with extension to the window
Kátł'odeeche First Nation	2023-09-19	Email received	Received email from Chief Martel with additional concerns

Katlodeeche First Nation	2023-09-20	Email sent	INF sent email to clarify some misconceptions from KFN 19-09-23 email. Offer to discuss.
Katlodeeche First Nation	2023-09-20	Letter received	KFN sent a letter to INF to outline concerns with dredging projects impacts.
West Point First Nation	2023-09-20	Phone call and email follow-up	Discussion about Environmental Auditing program
Katlodeeche First Nation	2023-11-24	Email sent	Letter response from INF-DM to KFN Chief re Resumption of Dredging Activities (response to Sept 2023 letter).
Katlodeeche First Nation	2023-11-29	Email sent	Email to Chief and staff with request to meet re 2023 work and changes/plans for 2024.
West Point First Nation	2023-11-29	Email sent	Email to Chief and staff with request to meet re 2023 work and changes/plans for 2024.
Hay River Métis Government Council	2023-11-29	Email sent	Email to president and staff with request to meet re 2023 work and changes/plans for 2024.
Hay River Métis Government Council	2023-11-29	Email sent	INF sent email to provide summary of 2023 season and plans for the 2024 season, with an invitation to meet to discuss the work that occurred in 2023 and improvements being made for the 2023 season, as well as gather any concerns and feedback from the HRMGC.
Kátł'odeeche First Nation	2023-11-29	Email sent	INF sent email to provide summary of 2023 season and plans for the 2024 season, with an invitation to meet to discuss the work that occurred in 2023 and improvements being made for the 2023 season, as well as gather any concerns and feedback from the KFN.
West Point First Nation	2023-11-29	Email sent	INF sent email to provide summary of 2023 season and plans for the 2024 season, with an invitation to meet to discuss the work that occurred in 2023 and improvements being made for the 2023 season, as well as gather any concerns and feedback from the WPFN.
Katlodeeche First Nation	2023-11-30	Email received	Response from Chief Martel suggesting a Dec 5 2023 meeting.
Katlodeeche First Nation	2023-11-30	Email received	Response from Peter Redvers asking for INF to apologize for ignoring KFN's letter from Sept 20th.
Hay River Métis Government Council	2023-12-04	Email received	Response from Ron Yaworsky saying President Beck won't be available this week.
Katlodeeche First Nation	2023-12-04	Email sent	Response to Peter Redvers that an INF-DM response letter was sent to Chief Martel on Nov 24/23.

Northwest Territory Métis Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Fort Resolution Métis Council	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Jean Marie River First Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Dehcho First Nations	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Deh Gah Got'ie First Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Fort Providence Métis Council	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Fort Simpson Métis Local #52	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Łı́ıdlı́ Kúę First Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Ka'agee Tu First Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Sambaa K'e Dene Band	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Pehdzeh Ki First Nation	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
Fort Smith Métis Council	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
North Slave Métis Alliance	2023-12-04	Email sent	INF sent email notification to state that the public meeting on Dec 5 2023 has to be rescheduled till Dec 13 2023.
West Point First Nation	2023-12-05	Email received	Response from John Sexsmith to begin planning for a meeting.
Katlodeeche First Nation	2023-12-05	Meeting	Mix of virtual and in person meeting to discuss the 2023 season and ongoing plans for 2024, as well as the long term dredging program.

Hay River Métis Government Council	2023-12-05	Email received	President Beck responded to INF and said that he is unable to meet due to personal circumstances.
Hay River Métis Government Council	2023-12-07	Email sent	INF emailed President Beck to request that he reach out to discuss when he is able to.
West Point First Nation	2023-12-11	Meeting	Virtual meeting with Chief and Council to discuss the 2023 season and ongoing plans for 2024, as well as the long term dredging program.
Hay River Métis Government Council	2023-12-15	Email sent	INF emailed President Beck asking if he is able to meet virtually to discuss the planned changes for 2024 and long-term dredging program.
Katloodeeche First Nation	2023-12-18	Email sent	INF sent meeting minutes and copy of presentation to Chief Martel and staff. INF also provided results from the geophysical analysis for the stockpile materials, as requested by KFN.
Hay River Métis Government Council	2023-12-18	Email sent	INF emailed President Beck to provide summary of proposed changes to the 2024 dredging season, as President Beck has been unable to meet due to personal circumstances. INF provided information on the proposed new work window and timeline and asked if the HRMGC had any concerns with the planned changes.
West Point First Nation	2023-12-18	Email sent	INF emailed meeting minutes from WPFN and INFs meeting on Dec 11 2023.

GNWT Hay River Harbour Dredging Engagement log

PROPONENT ENGAGEMENT LOG

June 2, 2023

List of Affected Parties and Stakeholders:

CCG	Canadian Coast Guard	HFP	Hamlet of Fort Providence
CF	Commercial Fishers	HFR	Hamlet of Fort Resolution
DKFN	Denínu Kúę First Nation	HRMGC	Hay River Métis Government Council
DFN	Dehcho First Nations	KFNC	Katl'odeeche First Nation
DFO	Fisheries and Oceans Canada	LKDFN	Łútsël K'é First Nation
DGGFN	Deh Gah Got'ie First Nation	MACA	Municipal and Community Affairs
ECCC	Environment and Climate Change Canada	MVLWB	Mackenzie Valley Land and Water Board
ENR- EA	Environment and Natural Resources- Environmental Assessment	NSMA	North Slave Métis Alliance
ENR-Land	Environment and Natural Resources- Land Department Hay River	NTMN	Northwest Territory Métis Nation
ENR-Water	Environment and Natural Resources- Water Resources	PWHC	Prince of Wales Northern Heritage Centre
FPMC	Fort Providence Métis Council	TC	Transportation Canada
FPRMB	Fort Providence Resource Management Board	TCFC	Tu'Cho Fishers Cooperative
FRMG	Fort Resolution Métis Government	THR	Town of Hay River
GNWT-ITI	Government of Northwest Territories- Industry, Tourism and Investment	WPFN	West Point First Nation

Date	Affected Parties	Engagement Activity Type	Issues/Recommendations by Affected Party	Proponent Response	Status of issue (resolved or outstanding)	Information materials provided to Affected Party (Y/N)	Written correspondence, meeting notes, minutes (Y/N)
February 16, 2023	MVLWB	Virtual Meetings				N	Y
February 17, 2023	DFO	Virtual meeting	Submit a Request for Review. Emergency Authorization not within 2-week requirement			N	Y
February 13, 2023	TCFC	Message on Facebook. No response				N	N
February 21, 2023	DFO	Virtual Meeting				Y	N
February 22, 2023,	Town of Hay River	Notification Letter/email response	Included in engagement process. Drawing of where the dredging is planned to occur. Want to include some members of council and have a meeting/review			Y	Y
February 22, 2023,	ENR-Water ENR-Lands	Notification Letter/email response	ENR-Water: Request to let them know how DFO respond and to collect and analyze sediment samples. Would like 2 weeks to review the material ahead of submission to the MVLWB.	A Request for Review will be submitted, and the outcome will be shared with ENR. A monitoring plan will be submitted with the Type B Water Licence. Samples have been collected and samples will be collected during dredging.		Y	Y

Date	Affected Parties	Engagement Activity Type	Issues/Recommendations by Affected Party	Proponent Response	Status of issue (resolved or outstanding)	Information materials provided to Affected Party (Y/N)	Written correspondence, meeting notes, minutes (Y/N)
February 22, 2023	ECCC GNWT-ITI FPRMB FRMG HFR KFN DFN WPFN PWHC	Call- No response	GNWT-ITI, FPRMB, FRMG, KFN, DFN, HFR, WPFN: No response DGGFN: Wrong email. Changed address. PWHC: Confirmed receipt of email notification.			N	N
February 22, 2023	MACA DKFN DGGFN	Letter and follow up	Will review and provide comment in subsequent email.	No response by March 29, 2023.		N	N
February 22, 2023	HRMGC NTMN	Call	HRMGC, NTMN- letter sent to new contact- awaiting response NTMN- Will review and provide comment later	No response by March 29, 2023.		N	N
February 22, 2023	NSMA	Call	No questions or concerns currently.			N	N
February 23, 2023	GNWT-ITI	Email	Will this affect the beach? Will there be an opportunity to do some dredging along the beach area as a lot of the debris from the flood has settled in the swimming area making it a safety issue?	There are two priority areas to be dredged during the summer of 2023 and the reason is for opening the navigation channel for boat passage. The first priority location is at the mouth of the river, where the Hay River meets Great Slave Lake. The second priority is within the river fingers closer to town, where the Coast Guard and barges can be moored. Both areas have accumulated a lot of sediment that need to be removed to mitigate the possibility of boats getting stuck. For 2023, the only priority for the GNWT-INF dredging will be opening the navigation channel. I am not sure if it is planned with other governments, and I am not sure if the beach cleanup is within GNWT-INF's area to support. In the past the dredging was conducted by the Federal Government; however, the GNWT-INF has taken this project on to try to expedite the process and mitigate the risk of boats not being able to move through the channel.		Y	Y
February 23, 2023	GNWT-ENR	Email	ENR would like to be kept informed, and potentially arrange for a meeting with Associated. ENR would also like two weeks to review the material ahead of submission to the MVLWB.	Please provide your availability this week and early next week, and I will arrange a meeting to discuss the project and your request to receive the material two weeks ahead of the submission to MVLWB.		Y	Y
February 23, 2023	THR - SOA	Call	THR have few projects coming up that will require fill THR have been solicited by a company that does ice breaking and dredging on the Asiniboine and the Red River. He's interested in GNWT feedback on it, as THR isn't appropriate to deal with dredging. Will provide documents to INF. THR had general inquiries but no concern. INF gave a brief overview. THR had general inquiries but no concern.	INF will advise Westmar to contact Glenn directly re potential end use, depending on the Geotech of the sediment. INF to review documents. Provide contact names for Westmar	Complete	Y	N

Date	Affected Parties	Engagement Activity Type	Issues/Recommendations by Affected Party	Proponent Response	Status of issue (resolved or outstanding)	Information materials provided to Affected Party (Y/N)	Written correspondence, meeting notes, minutes (Y/N)
February 23, 2023	FPRMB HFR FPM FPRMB	Call	Letters sent. No answer/response.			Y	N
February 24-25, 2023	KFN	Call /Emails	Wants to be fully informed on regulatory process. - attention to potential impacts on traditional fishery involved just above the mouth of the river.	Offered to meet with KFN to discuss the project prior to submitting applications to help us gain information on potential impacts on traditional fishery. Also, having a public engagement in Hay River. Meeting schedule March 17 2023	Dredging schedule and potential impacts to whitefish and fishers nets schedule	Y	Y
February 25, 2023,	WPFN	Email	Would like to set up a meeting.	Replied with offer to set up meeting, when works best for them.	No response or request for meeting to be scheduled.	N	N
March 6, 2023	DGGFN	Email	The Deh Gah Got'ie First Nation's only interest on this matter is to support the West Point First Nation and Katlodeechee First Nation on any of their concerns or suggestions.	No action required.		N	N
March 6, 2023	THR	Virtual meeting	INF provided a presentation to Town Council for information sharing purposes. It included a project overview, highlighting the issue, the project design elements, process, limitations, and upcoming key dates. No questions received, just comments re general support for the project and concern for their economy and the communities downstream if dredging doesn't proceed. They recognize the outstanding regulatory and scheduling risk and are 'cautiously optimistic'.	INF offered to return with an update as the project progresses. No fixed timeline or milestone.		Y	N
March 13, 2023	Public	Meeting	INF hosted a public engagement session in Hay River to provide a general overview of the project.	N/A	N/A	Y	Y record of engagement
March 14, 2023	Rowes	Email	Concerned about abilities to conduct work in summer. Suggests working in winter.	Agreed, summer window was recommended by DFO, and we could not meet regulatory requirements for 2023 winter dredging. Looking at dredging in the winter moving forward past this program. Also, if we cannot do work in summer, winter 2024 dredging would be an option.	Resolved	Y - Factsheets emailed to client	N
April 12, 2023	KFN	Email	Follow-up related to EOI	No reply		N	Y
April 13, 2023	LKDFN	Phone call Notification Letter/email response	Call to confirm contact information and notification letter sent by email.	Receptionist asked that she be cc'd and confirmed the name and email of SAO.		Y	Y
April 20, 2023	LKDFN	Call	Left a voicemail with SAO to confirm receipt of the notification letter and to request and questions or to meet to discuss the project.	No reply		N	N
April 24, 2023	LKDFN	Call	Left a voicemail with SAO to confirm receipt of the notification letter and to request and questions or to meet to discuss the project.	Confirmed email receipt with receptionist (cc'd) no reply from SAO.		N	N

Date	Affected Parties	Engagement Activity Type	Issues/Recommendations by Affected Party	Proponent Response	Status of issue (resolved or outstanding)	Information materials provided to Affected Party (Y/N)	Written correspondence, meeting notes, minutes (Y/N)
			Called reception to confirm receipt. Was advised that SAO his no longer Andre Larabie. Lucy Sanderson is acting SAO and she will return my call.				
April 26, 2023	LKDFN	Call	Left a voicemail with acting SAO to confirm receipt of the notification letter and to request and questions or to meet to discuss the project.	No reply		N	N
May 05, 2023	KFN	Email	Email to request information about capacity and equipment available to support project. Requesting whether the KFN had question about the EOI.	No reply		N	Y
May 12, 2023	KFN	Email	Follow-up related to EOI	KFN to follow-up with CEO	Ongoing	N	Y
May 16, 2023	LKDFN	Notification Letter/email follow-up	Email to confirm contact information and notification letter sent by email.	No reply		Y	Y
May 23, 2023	DFO	Email follow-up	Emailed to confirm approach to Letter of Advice and timing of DFOs issuance	DFO provided advice on May 26, 2023, regarding the Letter of Advice and mitigations.		Y	Y
May 31, 2023	DFO	Email follow-up	Emailed DFO a link to the ongoing ORS review process on the MVLWB's website that confirmed INFs proposed in water work window.	DFO			
November 3, 2023	CCG	Phone Call		Called to give brief update on 2023 program, asked about issues, concern about location of the channel, long-term channel width, ability to adjust navigation buoys.	Outstanding - Follow-up mtg in January to continue discussion.	Y - bathymetry	N
November 23, 2023	CCG	Email		Seeking to arrange meeting to have discussion on dredging channel location, coordination of dredging work with CCG operations, placement of buoys.	Outstanding	N	
December 4, 2023	CCG	Email		Following up, seeking to set up a meeting to discuss the project and CCG priorities.	Outstanding	N	
December 5, 2023	Fishers	Meeting (in-person and virtual)	Safety concerns from sediment shoals are paramount. Location of dredging won't align with TC markers – safety for navigation. No fish migration issues prior to July, should increase dredging time on the water – want navigability reinstated as quickly as possible.	Understood. TC has advised they can move their buoys and fixed markers to accommodate a new channel location. We will pursue an extended on-water working window with DFO, based on local knowledge, and inquire with other stakeholders as well.	Pursuing these items with CCG for navigation aids, and through DFO LOA revisions.		Y – mtg minutes
December 6, 2023	CF	Meeting	INF met in person to discuss how the 2023 season went, improvements for 2024, and the long term program			Y PowerPoint	Y meeting minutes
December 6, 2023	THR	Meeting (in-person)	Interested in dredgeate quality and repurposing, flood mitigation, Coast Guard buoys, fire effects on water/dredging, long-term dredging.	Questions generally resolved, outstanding action items related to dredgeate repurposing with THR as an interested party.	Outstanding	Y – geophysical data & slide deck	Y – mtg minutes
December 6, 2023	THR	Meeting	INF met with the THR in Hay River to discuss lessons learnt from 2023 season, improvements for 2024 season, and the long term dredging program.	THR requested a copy of the Power Point.		Y PowerPoint presentation	Y meeting minutes

Date	Affected Parties	Engagement Activity Type	Issues/Recommendations by Affected Party	Proponent Response	Status of issue (resolved or outstanding)	Information materials provided to Affected Party (Y/N)	Written correspondence, meeting notes, minutes (Y/N)
December 13, 2023	Public engagement	In person meeting	INF held a public engagement session in Hay River.	N/A		Y PowerPoint	Y Meeting minutes
December 18, 2023	THR	Email	INF provided meeting minutes, stockpile sediment testing report and PowerPoint presentation slides.	N/A		Y PowerPoint slides and geophysical testing	Y meeting minutes
December 18, 2023	CF	Email	INF provided meeting minutes from December 6 2023 meeting.	N/A		Y meeting minutes	Y
December 19, 2023	DFO	Meeting and follow-up email	INF met with DFO to discuss plans for 2024 season and provided meeting minutes.	DFO provided advice about fish mitigations and best practices.	None	Y	Y meeting minutes

Notes:

On February 22, 2023: ENR-Water in email noted the sediment that is collected from the dredging will need to be analyzed prior to use/disposal. The board likely will reference MTS’s current water licence for those parameters but that will be determined under the water licence.

APPENDIX C – PUBLIC INFORMATION SESSION SIGNIN SHEETS

GNWT-INF: HAY RIVER HARBOUR RESTORATION INFORMATION SESSION LOG

Session Date: MARCH 13, 2023

Name	Organization	Email (optional)
Rocky Simpson	MLA South HR	
Kelly O'Connor	Public	kellyocconnor@ssimictora.ca
RJ Simpson	MLA Hay River North	
Doug Lundmark	Hay River Res	Doug.Lundmark2@gmail.com
Stan Pope	69 years	

Thank you for joining this information session.

GNWT-INF: HAY RIVER HARBOUR RESTORATION INFORMATION SESSION LOG

Session Date: MAR. 14, 2023

Name	Organization	Email (optional)
Rocky Simpson	MLA HR South	
RT Simpson	MLA HR North	
Mike Leonard		
Jordan Groenewegen		
Jack Rowe	Rowe's Const	jrowe@rowes.ca
Rick Groenewegen	GREENWAY	groenewegenrick@gmail.com

Thank you for joining this information session.

COMMERCIAL FISHERS SESSION DEC 6, 2023
Sign In Sheet

name	phone	email
Cameron Beavel Bones	780 502 1634	Bones244542
LAWRENCE MORIN	780 502 780-617-6303	@gmail
Bong Buckley	1 867 444 8195	

Hay River Harbour Restoration Sign-In Sheet

Date: Dec 13 2023

Location: Hay River Community Hall

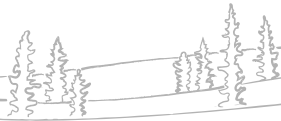
Attendance: 5

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APPENDIX D – FACT SHEETS



Hay River Harbour Restoration Project Overview



The Government of Northwest Territories – Department of Infrastructure (GNWT-INF) is proposing to mechanically dredge sediment from two areas in the Hay River to open a 30 m wide, 2.4 m deep, emergency marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The dredging is proposed to occur between July 16 and September 14 of 2023. This is the regulated working window that presents the least risk to spawning for the known fish species in the area.

Dredging is an effective way to remove sediment accumulated over time, which has become a risk to transportation in and out of the Hay River Harbour. Two areas of the harbour were identified as the highest risks, referred to as Dredge Area A (outlet into Great Slave Lake) and Dredge Area B (within three fingers in the East Channel). If these two areas are not dredged this year, there is risk the navigation channel will be impassable, impacting the critical resupply for up to 12 communities.

Project Design

An excavator situated on a barge would remove the sediment and stockpile it on the deck of a second barge. The receiving barge will have a perimeter containment system, including engineered fabric, that allows water to flow through but keeps sediment on the barge. This will allow the sediment to passively dewater on the barge deck.

When the barge is full, the sediment will be loaded onto haul trucks located on shore and transferred to temporary soil storage locations at GNWT's Marine Transportation Services (MTS) properties on Vale Island. The sediment will be stockpiled and left to continue to passively dewater on each of the Vale Island properties. The stockpiles will be contained with berms, and if there is excess water, it will be directed into sumps for infiltration to ground. The sediment could potentially be reused if it meets Canadian Council of Ministers of the Environment (CCME) standards for soil. GNWT-INF is considering options for uses such as civil applications, fill or landfill capping.

Definitions

Code of Practice: A code of practice is a set of written rules which explains how people working in a particular profession should behave.

Dewatering: To drain, remove water

Dredging: To clean out the bed of a harbour, river by scooping out mud and weeds (sediment) with a dredge (excavator).

Mitigate: To alleviate, make less severe.

Turbidity: The cloudiness of a fluid.

Mitigation

With every project there are risks and potential impacts to mitigate. Considerations for the Hay River Harbour Restoration include:

- Fish spawning and habitat within the dredge work area;
- Potential interference to the fishing industry transportation, or Indigenous fishing areas;
- Potential interference to public recreation and transportation in and out of the harbour; and
- Water quality – turbidity and erosion.

GNWT-INF has prepared management plans to assist with mitigation of environmental impacts for the Hay River Restoration project. The proposed management plans will be used as management tools for the dredging contractor during the project. Details on each management plan can be found as a separate fact sheet.

- Waste Management Plan
- Spill Management Plan
- Sediment and Erosion Control Plan
- Monitoring Plan

The management plans will be reviewed by regulators as part of the Type B water licence application to be submitted to the Mackenzie Valley Land and Water Board (MVLWB).

Permitting

The quality of fish habitat in the work area for young fish species is moderate to low due to the high sedimentation and turbidity of the river. One exception may be Walleye, which prefers low light and high turbidity. The area may be suitable nurturing habitat for White and Longnose Suckers, however they are not classified as a species of concern. The naturally high turbidity of the Hay River interferes with visibility for predatory fish and impacts their hunting ability, making the project area poor habitat for predatory fish. Excavators will be placed on barges, not on land. Therefore, riparian areas will not be affected. There are three types of regulatory permit requirements or approvals before dredging can start:

1. MVLWB – Type B Water Licence
2. Fisheries and Oceans Canada (DFO) Request for Review
3. Transport Canada – Minor Works Order

What is a Type B Water Licence?

The *Mackenzie Valley Resource Management Act* (MVRMA), together with the *Northwest Territories Waters Act* gives the Mackenzie Valley Land and Water Board (MVLWB) the authority to regulate the use of water and the deposit of waste by issuing, amending, extending, and suspending water licenses.

A Type B water licence application will be submitted to the MVLWB for the dredging project based on the miscellaneous undertakings for any deposit of waste.

The Type B water licence will give the GNWT-INF permission to dredge sediment from the Hay River Harbour and deposit it at the GNWT-MTS properties.

What is a Request for Review?

The DFO requires authorization for any work being conducted on water that could potentially impact fish habitat. Work proposed in fish-bearing waters are submitted to the DFO as a Request for Review. The review intent is to assess whether the work meets requirements to mitigate impacts to fish and is within the Code of Practice: Routine Maintenance Dredging for Navigation.

For risks associated with fish and aquatic life, and to support the DFO request for review, a desktop fish assessment has been completed for Dredge Areas A and B. For more information on the fish species known to the areas, please refer to the fish assessment fact sheet.

What is a Minor Works Order?

Transport Canada defines minor works as activities that may slightly interfere with navigation and outlines specific activities that are classified as minor works. Minor works do not need an approval if the work meets those requirements and instead requires the GNWT-INF to submit a notification of a minor work. Currently, our proposed work is considered minor work as it includes erosion-protection works, dredging, and mooring systems. Communications with Transport Canada will be maintained throughout the project.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagement@ae.ca



Hay River Harbour Restoration Fish Assessment



Under the *Fisheries Act*, conservation and protection of fish and fish habitat must be managed when working in water. To conduct dredging as part of this project, the Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) must first submit a Request for Review from Fisheries and Oceans Canada. This fact sheet is part of a series to provide potentially affected parties with information about the proposed dredging project and the permitting processes in support of the government's public engagement.

Background

The Government of Northwest Territories – Department of Infrastructure (GNWT-INF) is proposing to mechanically dredge sediment from two areas in the Hay River to open the marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The dredging is proposed to occur between July 16 and September 14 of 2023. This is the regulated working window that presents the least risk to spawning for the known fish species in the area.

Description of Dredge Areas

GNWT-INF has proposed dredging the navigation channel to mechanically excavate a 30 m wide and 2.4 m deep navigation channel for emergency use (Dredge Areas A and B). Dredge Area A is located at the outlet to Great Slave Lake and is proposed to be 500 m long. Dredge Area B are the three fingers in the East Channel. Approximately 84,000 m³ of sediment will be removed from the river.

There are no species at risk in the dredging areas. The dredging areas are also not known as habitat for important fish species.

Risks and Mitigation

Risks from the proposed work to spawning events, migration, and/or habitat are considered minimal.

Spawning activities

Fish species require small gravels, cobbles, and boulders to spawn, and none of these are present in the navigation channel. Also, the speed of water through the East Channel is not fast enough to support spawning in most of the work area. The dredging areas are not suitable spawning habitats for most fish species.

Definitions

Dredging: To clean out the bed of a harbour, river by scooping out mud and weeds (sediment) with a dredge (excavator).

Gradient: Slope

Important fish species: Fish that are a part of commercial, recreational, or Indigenous People's fishery, or fish that support such a fishery

Mitigate: To make effects less severe

Sediment: Matter that settles to the bottom of a water body

Turbidity: The cloudiness of a fluid. Caused by sediment.

Migration

The Hay River delta provides passage to spawning habitat and potentially rearing habitat further upstream, past the dredging areas. The allowable work window is between July 16 and September 14. Work is proposed to be completed during this working window to avoid the spawning periods for important fish species. No spawning migration will occur during that time frame.

The dredging will not be conducted in areas that would prevent fish passage. Dredge Area A occurs in a 30 m wide emergency shipping lane at the mouth of the Hay River, which is 1 km wide. Dredge Area B is located outside the East Channel mainstream. The noise and vibration associated with the dredging activities (i.e. barge and tug movement and excavator operation) will likely result in fish staying away from the work areas. Dredging will be conducted with an excavator to provide an opportunity for fish to swim away from or out of the bucket. An environmental monitor will be present to monitor and transfer any live fish that may be transferred to the barge.

Habitat

The quality of fish habitat in the work area for young fish species is moderate to low due to the high sedimentation and turbidity. One exception may be Walleye, which prefers low light and high turbidity. The area may be suitable nurturing habitat for White and Longnose Suckers, however they are not classified as a species of concern. The naturally high turbidity of the Hay River interferes with visibility for predatory fish and impacts their hunting ability, making the project area poor habitat for predatory fish. Excavators will be placed on barges, not on land. Therefore, riparian areas will not be affected.

Fish Species

The following fish species are known to be in the Hay River and Great Slave Lake:

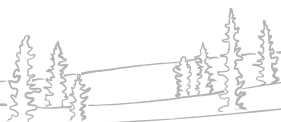
- | | |
|--|---|
| - Arctic Grayling (<i>Thymallus arcticus</i>) | - Trout-Perch (<i>Percopsis omiscomaycus</i>) |
| - Walleye (<i>Sander vitreus</i>) | - Finescale Dace (<i>Phoxinus neogaeus</i>) |
| - Inconnu (<i>Stenodus leucichthys</i>) | - Fathead Minnow (<i>Pimephales promelas</i>) |
| - Lake Trout (<i>Salvelinus namaycush</i>) | - Flathead Chub (<i>Platygobio gracilis</i>) |
| - Northern Pearl Dace (<i>Margariscus margarita</i>) | - Ninespine Stickleback (<i>Pungitius pungitius</i>) |
| - Northern Redbelly Dace (<i>Phoxinus eos</i>) | - Longnose Dace (<i>Rhinichthys cataractae</i>) |
| - Cisco (<i>Coregonus artedii</i>) | - Chum Salmon (<i>Oncorhynchus keta</i>) (rare occurrences) |
| - Spottail Shiner (<i>Notropis hudsonius</i>) | - Sockeye Salmon (<i>Oncorhynchus nerka</i>) (rare occurrences) |
| - Longnose Sucker (<i>Catostomus catostomus</i>) | - Arctic Sculpin (<i>Myoxocephalus scorpioides</i>) |
| - White Sucker (<i>Catostomus commersonii</i>) | - Deep Water Sculpin (<i>Myoxocephalus thompsonii</i>) |
| - Lake Whitefish (<i>Coregonus clupeaformis</i>) | - Spoonhead Sculpin (<i>Cottus ricei</i>) |
| - Slimy Sculpin (<i>Cottus cognatus</i>) | - Goldeye (<i>Hiodon tergisus</i>) |
| - Lake Chub (<i>Couesius plumbeus</i>) | - Sauger (<i>Sander canadensis</i>) |
| - Brook Stickleback (<i>Culaea inconstans</i>) | - Yellow Perch (<i>Perca flavescens</i>) |
| - Northern Pike (<i>Esox lucius</i>) | - Arctic Lamprey (<i>Lethenteron camtschaticum</i>) |
| - Burbot (<i>Lota lota</i>) | - Least Cisco (<i>Coregonus artedii</i>) |
| - Emerald Shiner (<i>Notropis atherinoides</i>) | - Round Whitefish (<i>Prosopium cylindraceum</i>) |
| - Spottail Shiner (<i>Notropis hudsonius</i>) | - Shortjaw Cisco (<i>Coregonus zenithicus</i>) |
| - Rainbow Trout (<i>Oncorhynchus mykiss</i>) | |

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagement@ae.ca



Hay River Harbour Restoration Monitoring Plan



Under the *Northwest Territories Waters Act*, a Type B water licence is required from the Mackenzie Valley Land and Water Board to deposit any waste. The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) is applying for a Type B water licence. This fact sheet is part of a series to provide potentially affected parties with information about the proposed dredging project and the permitting processes in support of public engagement.

Background

GNWT-INF is proposing to mechanically dredge sediment from two areas (Dredging Area A and Dredging Area B) in the Hay River to open the marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The sediment that is removed from these areas and stored on land would be classified as waste. As part of the Type B water licence application, GNWT-INF is required to prepare a monitoring plan to provide guidance during the dredging activities.

Objectives

The monitoring plan addresses the sampling of the following:

- Water quality, particularly total suspended solids, of the Hay River and Great Slave Lake outside the dredging work area (receiving waters) during construction;
- Water quality from the sediment dewatering; and
- Soil quality of the sediment proposed to be temporarily stored and dewatered on Vale Island, to determine the repurposing of the soils

Soil Analysis

When sediment is removed from water, it is considered a soil. Samples collected from Area A in 2023 indicated silt, sand, or sandy loam texture. The samples met the Canadian Council of Ministers of the Environment (CCME) standards for commercial, industrial, residential/parkland land uses for both fine- and coarse-grained soil.

Definitions

Conductivity: Soil/water quality parameter related to salt (salinity) content

Dewatering: To drain, remove water

Dredging: To clean out the bed of a harbour, river by scooping out mud and weeds (sediment) with a dredge (excavator).

Hydrocarbon: Soil/water quality parameter associated with petroleum-based products

Sediment: Matter that settles to the bottom of a waterbody

Total suspended solids and total dissolved solids: Water quality parameters associated with particles in water.

Mitigation

The dredged material will be stockpiled directly onto a barge. The barge will have a perimeter containment system, including engineered fabric, that allows water to flow through but keeps the sediment on the barge. This will allow the sediment to passively dewater on the barge deck.

When the barge is full, the sediment will be loaded onto haul trucks located on shore and transferred to multiple properties on Vale Island for temporary storage and residual dewatering. The stockpiles will be contained with berms and if there is excess water, it will be directed into sumps for infiltration into the ground.

Monitoring the Receiving Waters

The receiving waters in this project are the waters in Great Slave Lake (Dredge Area A) and the Hay River (Dredge Area B) that surround the dredging areas. Four locations have been selected for monitoring around Dredge Area A and four locations have been selected for monitoring around Dredge Area B. The concentration of total suspended solids will be monitored continuously at each location and will be compared to the local background data from the existing monitoring stations at the mouth of the Hay River and upstream of the West Channel.

Monitoring the Stockpile on Land

Water quality samples will also be collected weekly from the sumps from dewatering the stockpiles. The samples will be tested for pH, conductivity, salinity, anions, total dissolved solids, total metals, and hydrocarbons.

Soil Quality

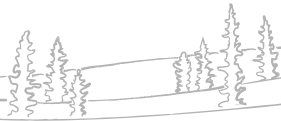
After a stockpile is dewatered, the dry sediment (now considered soil) will be sampled and tested for pH, conductivity, salinity, metals, and hydrocarbons. The results will be compared to the applicable CCME soil standards, which will determine its suitability for re-use or final disposal.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagement@ae.ca



Hay River Harbour Restoration Sediment and Erosion Control Plan



Under the *Northwest Territories Waters Act*, a Type B water licence is required from the Mackenzie Valley Land and Water Board (MVLWB) to deposit any waste. The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) is applying for a Type B water licence. This fact sheet is part of a series to provide potentially affected parties information about the proposed dredging project and the permitting processes in support of the public engagement.

Background

The Government of Northwest Territories – Department of Infrastructure (GNWT-INF) is proposing to mechanically dredge sediment from two areas in the Hay River to open the marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The dredging is proposed to occur between July 16 and September 14 of 2023. This is the regulated working window that presents the least risk to spawning for the known fish species in the area.

As part of the Type B water licence application, the GNWT-INF is required to have a Sediment and Erosion Control Plan (SECP) to provide guidance on management of additional sediment from entering the water and erosion of soils on land that may occur during the dredging activities.

Definitions

Dewatering: To drain, remove water

Dredging: To clean out the bed of a harbour, river by scooping out mud and weeds (sediment) with a dredge (excavator).

Erosion: The gradient eroding of material by wind or water.

Restoration: Returning the land to its original condition

Sediment: Matter that settles to the bottom of a waterbody

Sedimentation: When sediments become exposed to surface waters through processes

Project Activities Requiring Controls

Activities that include sediment and erosion control:

- Sediment dewatering on barge
- Soil stockpiles and dewatering

Control Measures

The following best management practices and mitigation measures will be implemented to protect against sedimentation and erosion.

Control Measures on Water

- An environmental monitor will be present throughout the duration of the dredging activities to monitor equipment and water quality.
- An excavator situated on a barge would remove the sediment and stockpile onto a second barge. The receiving barge will have a perimeter containment system, including engineered fabric, that allows water to flow through but keeps sediment on the barge. This will allow the sediment to passively dewater on the barge deck and reduce the amount of sediment re-entering the waterbody.

Control Measures on Land

The following measures will be in place on land during temporary soil storage activities:

- Preparation of multiple properties on Vale Island to stockpile the sediment for residual passive dewatering infiltration into the ground, including construct berms around the properties, and excavate sumps for potential runoff water;
- Installation of silt fencing as necessary to trap sediment-laden water from re-entering the watercourses during offloading of barges on the shore.

Duties of the On-Site Environmental Monitor

The environmental monitor will be responsible for monitoring the water quality during works and carrying out regular inspections (i.e., silt fences).

Wind Erosion and Dust Control

Wind erosion occurs in areas that are not adequately protected from high-velocity winds blowing across the land. The following methods will be used to reduce wind erosion and control potential dust as required:

- Covering dump trucks and driving at low speeds to minimize fugitive dust;
- Spray water as necessary on transport routes to compact and weight the soil particles and reduce dust generation; and
- Restrict vehicle traffic entering and leaving the site to reduce sediment transportation and mobilization to roadways.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagment@ae.ca



Hay River Harbour Restoration Spill Contingency Plan



Under the *Northwest Territories Waters Act*, a Type B water licence is required from the Mackenzie Valley Land and Water Board (MVLWB) to deposit any waste. The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) is applying for a Type B water licence. This fact sheet is part of a series to provide potentially affected parties information about the proposed dredging project and the permitting processes in support of the public engagement.

Background

The Government of Northwest Territories – Department of Infrastructure (GNWT-INF) is proposing to mechanically dredge sediment from two areas in the Hay River to open the marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The dredging is proposed to occur between July 16 and September 14 of 2023. This is the regulated working window that presents the least risk to spawning for the known fish species in the area.

As part of the Type B water licence application, the GNWT-INF is required to have a Spill Contingency Plan (SCP) to provide guidance on any spills that may occur during the dredging activities.

Potential activities where a spill could occur include:

- Machinery leaks while working on water and on land
- Re-fueling equipment and vehicles
- Sediment offloading from the barge to haul truck

There are four main sites where potential spills may occur:

1. On the water during dredging activities
2. Marine Transportation Services (MTS) Syncro Yard during re-fueling
3. Barge offloading location
4. Temporary soil storage locations within Vale Island while transporting soils or parking machinery

Definitions

Boom: Used to absorb and to redirect or stop fluid migration.

Contingency: An action for an unforeseen event or circumstance.

Dredging: To clean out the bed of a harbour, river by scooping out mud and weeds (sediment) with a dredge (excavator).

Hydrophobic: Does not absorb water but

Spills occur in areas where hazardous materials are stored, during mechanical maintenance, and refueling equipment. Hazardous materials related to this project are expected to include fuel, hydraulic and lube oils. Equipment working on the water will use biodegradable oil/lube. Fuel such as diesel and gasoline will be stored in the existing double walled tanks, and the oils stored in tote tanks located at the MTS Syncro Yard. The highest risk activities for spills are during fueling activities, which will only occur at the MTS Syncro Yard. The barge, machinery, equipment, and transport trucks could also potentially leak or have an unplanned release where a spill occurs on the water or land.

Plan Overview

Preventing spills from occurring is the focus and the primary goal for the project. Response plans are developed to mitigate a spill from occurring and to also effectively manage a spill if one were to occur.

The SCP describes spill prevention and spill response procedures. This includes the responsibilities of personnel and the contractor training requirements. The SCP also includes the following information:

- Primary and secondary contacts;
- Emergency contact numbers (i.e., spill report lines, police, fire, and health facilities);
- Regulatory agencies' contact numbers (i.e., workers safety, GNWT Department of Lands, and Fisheries and Oceans Canada);
- A list of the locations of equipment needed in case of emergencies at the three main site locations (i.e., buoys, sorbent pads, extinguishes, and drip trays); and
- Silt fencing will be installed at the barge offloading location to protect riparian habitat and contain potentially spilled sediment in the water during the transfer to haul trucks.

Action Plans by Location

Action plans have been developed for work on water and on land. The following initial steps are described for spills on land and water.

Land

1. Stop the spill
2. Construct berms or ditches to stop spill from flowing towards water
3. Report the spill
4. Recover the contaminated material

Water

1. Ask for spill response help
2. Deploy hydrophobic booms
3. Report the spill
4. Recover contaminated materials

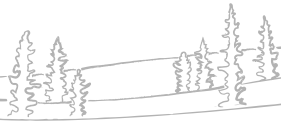
Soils and hydrophobic materials contaminated by a spill will be collected and transported to a suitable landfill facility for disposal or treatment.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagement@ae.ca



Hay River Harbour Restoration Waste Management Plan



Under the *Northwest Territories Waters Act*, a Type B water licence is required from the Mackenzie Valley Land and Water Board to deposit any waste. The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) is applying for a Type B water licence. This fact sheet is part of a series to provide potentially affected parties with information about the proposed dredging project and the permitting processes in support of public engagement.

Background

GNWT-INF is proposing to mechanically dredge sediment from two areas (Dredging Area A and Dredging Area B) in the Hay River to open an emergency marine navigation channel. Approximately 84,000 m³ of sediment will be removed from the river. The sediment that is removed from these areas and stored on land would be classified as waste. As part of the Type B water licence application, GNWT-INF is required to prepare a waste management plan to provide guidance on how to manage the sediment during the dredging activities.

Soil Analysis

When sediment is removed from water, it is considered a soil. Samples collected from Area A in 2023 indicated silt, sand, or sandy loam texture. The samples met the Canadian Council of Ministers of the Environment (CCME) standards for commercial, industrial, residential/parkland land uses for both fine- and coarse-grained soil.

Methods

Dredging and Dewatering

- Sediment will be loaded onto a barge deck for dewatering. The barge will have a perimeter containment system, including engineered fabric, that allows water to flow through but keeps sediment on the barge.
- When a barge is full, the sediment will be loaded onto haul trucks and transported to temporary soil storage locations on Vale Island.
- The soils will be stockpiled and contained with berms.
- Residual dewatering will continue at the soil storage areas where the water will infiltrate into the ground. If there is excess water from the dewatering process, it will be directed into a sump.

Potential Soil Re-use

Based on the results of the sampling conducted in the monitoring plan, the sediment could potentially be reused if it meets CCME standards for soil. GNWT-INF is considering uses such as civil applications, fill or landfill capping.

Definitions

Dewatering: To drain, remove water

Dredging: Cleaning out the bed of a harbour, river, or other waterbody by scooping out mud and weeds (sediment) using an excavator

Restoration: Returning the land to its original condition

Sediment: Matter that settles to the bottom of a waterbody

Restoration

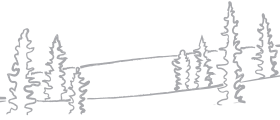
The temporary soil storage areas will be restored after the project is complete. These areas will be recontoured, revegetated, and/or seeded.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagment@ae.ca



Hay River Harbour Restoration Project Overview



The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) has completed the 2023 season of the Hay River emergency dredging project. The project includes mechanically dredging sediment from two areas in the Hay River to open an emergency marine navigation channel 30 m wide and 2.4 m deep. In 2023, about 5,600 m³ of sediment was dredged, and about 78,000 m³ remains to be removed in 2024. This is scheduled to occur between July 16 and September 14, 2024. This is the regulated working window that presents the least risk to spawning for the fish species known to be in the area. However, based on local knowledge, INF is exploring moving the dredging window so that it begins in June, to reduce effects on fish in the fall.

Background

Dredging is an effective way to remove sediment that accumulates over time on the bed of a water body. In the Hay River Harbour, sediment build-up has become a risk to transportation in and out of the navigable channel. Two areas of the harbour were identified as being at the highest risk, referred to as Dredge Area A ("the plug" at the outlet into Great Slave Lake) and Dredge Area B (the three fingers in the East Channel). If the emergency dredging program is not completed, there is a risk that the navigation channel will become impassable, which will affect the supply of essential goods and fuel for up to 12 communities.

Project Design

An excavator situated on a barge scoops out sediment and piles it on a barge deck. The deck is lined with an engineered filter that lets water flow freely off the barge while the sediment remains on the deck. This allows the sediment to dewater on the barge deck.

When the barge is full, the sediment is loaded onto haul trucks located on shore and transferred to stockpile properties at GNWT – Marine Transportation Services (MTS) sites or Town of Hay River sites on Vale Island. The sediment is stockpiled and left to continue to dewater. The stockpiles are contained within berms, and if there is excess water, it is directed into sumps for infiltration to the ground. If infiltration is slow (e.g., during wet, rainy weather), the water may be actively removed (e.g., by pumping-off). Now considered soil, the sediment could potentially be reused if it meets the quality standards for soil. The sediment sampled during dredging in 2023 met the criteria for residential land use. GNWT-INF is considering options for uses such as general fill or landfill capping.



The following improvements will be made to the dredging project's environmental management plans during the 2024 season:

- Additional guidance to improve environmental monitoring and exceedances that trigger an response, including additional guidance for sampling and reporting;
- Improving dewatering practices on the barge and at the stockpile sites, and spring freshet preparation, including sediment and erosion control measures, inspections, snow clearing, and dewatering;
- Additional guidance about stockpile sampling and reporting;
- Defined fuelling stations and options on shore and exploring options for refuelling on-barge equipment offshore (following Transport Canada's authorization and spill contingency requirements); and
- Additional guidance for on site preparation of stockpile locations (wildlife and nest sweeps, grading, inspections, silt fencing).

Mitigation

With every project, there are risks and potential impacts to mitigate. Considerations for the Hay River Harbour restoration project include:

- Fish spawning and habitat within the dredge work areas;
- Potential interference with fishing industry transportation or Indigenous fishing areas;
- Potential interference with public recreation and transportation in and out of the harbour;
- Potential effects on water quality (turbidity); and
- Potential erosion or sedimentation risk

To support the Type B Water Licence, the following management plans are in place to mitigate and prevent potential environmental impacts from the project:

- Waste Management Plan
- Spill Management Plan
- Sediment and Erosion Control Plan
- Monitoring Plan

These management plans are currently being updated and will be submitted to the Mackenzie Valley Land and Water Board (MVLWB). They will then be sent out for public review as part of the requirement of the current water licence. The updates will focus on lessons learned from the 2023 dredging program for improving productivity, adding more details about stockpile sampling and sump management, using the stockpile properties, and dewatering.

Duties of the On-Site Environmental Monitor

The environmental monitor is responsible for ensuring that the mitigation measures outlined in the management plans and regulatory approvals are followed. This includes monitoring water quality, fish presence, sediment and erosion control measures, water management, as well as carrying out regular inspections. The environmental monitor has the authority to stop work immediately if an issue arises.

Permitting

The dredging program requires three types of regulatory permits:

- Type B water licence (from the MVLWB)
 - Request for review (by Fisheries and Oceans Canada)
 - Minor works notice (to Transport Canada)
-

What is a Type B Water Licence?

The *Mackenzie Valley Resource Management Act* and the *Northwest Territories Waters Act* give the MVLWB the authority to regulate the use of water and the deposit of waste by issuing, amending, extending, and suspending water licences.

The MVLWB has issued a Type B water licence (MV2023L8-0005) for the emergency dredging program based on the miscellaneous undertakings for use of water and deposit of waste at the temporary storage areas.

The Type B water licence allows the GNWT-INF to dredge sediment from the Hay River Harbour and place it at the designated MTS properties and select Town of Hay River properties.

What is a Request for Review?

Fisheries and Oceans Canada (DFO) must authorize any work that is conducted on water that could potentially affect fish habitat. Anyone proposing work in fish-bearing waters must submit a request for review (RFR) to DFO to review the project. The intent of the RFR is to assess whether the measures proposed will avoid and mitigate the potential for prohibited effects to fish and fish habitat.

This project was issued a Letter of Advice by DFO. For risks associated with fish and aquatic life, and to support the DFO request for review, a desktop fish assessment was completed for Dredge Areas A and B. For more information on the fish species known to be in the areas, please refer to the Fish Assessment Fact Sheet.

What is a Minor Works Order?

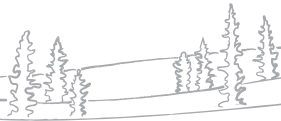
Transport Canada defines minor works as activities that may interfere with navigation and outlines specific activities that are classified as minor works. Minor works do not need approval if the work meets those requirements. For this project, GNWT-INF must submit a notification of a minor work. Currently, the program is considered a minor work because it includes dredging and mooring systems. Communication with Transport Canada is maintained throughout the project.

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagment@ae.ca



Hay River Harbour Restoration Fish Assessment



Under the *Fisheries Act*, conservation and protection of fish and fish habitat must be managed when working in water. To conduct dredging as part of this project, the Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) must first submit a Request for Review from Fisheries and Oceans Canada. This fact sheet is part of a series to provide potentially affected parties with information about the proposed dredging project and the permitting processes in support of the government's public engagement.

Background

GNWT-INF has completed the 2023 season of the emergency dredging program. The program includes mechanically dredging a navigation channel 30 m wide and 2.4 m deep for emergency use (Dredge Areas A and B). Dredge Area A is located at the outlet to Great Slave Lake and is proposed to be approximately 500 m long. Dredge Area B consists of the three fingers in the East Channel.

In 2023, Dredge Area A was only partly dredged. About 5,600m³ of sediment was dredged, and about 78,000 m³ remains to be removed in 2024. This is scheduled to occur between July 16 and September 14, 2024. This is the regulated working window that presents the least risk to spawning for the fish species known to be in the area.

No species at risk exist in the dredging areas. The dredging areas are also not known as habitat for important fish species.

Risks and Mitigation

Risks are considered minimal, and mitigation is related to spawning events, migration, and habitat.

Spawning activities

The dredging areas are not suitable spawning habitat for most fish species. Fish require small gravel, cobbles, and boulders to spawn, and none of these are present in the navigation channel. In addition, the water through the East Channel is not fast enough to support spawning in most of the work area.

Migration

The Hay River delta provides passage to spawning habitat and potentially rearing habitat further upstream, beyond the dredging areas. The allowable work window is between July 16 and September 14. Work is proposed to be completed during this time to avoid the spawning periods for important fish species. No spawning migration is expected to occur during that time frame.

Dredging

Cleaning the bed of a harbour or river by removing accumulated sediment

Important fish species

Fish that are a part of a commercial, a recreational, or an Indigenous Peoples' fishery, or fish that support such a fishery

Mitigate

To make effects less severe

Sediment

Matter that settles to the bottom of a waterbody

Turbidity

The cloudiness of a fluid caused by

The dredging is not expected to prevent fish passage. Dredge Area A occurs in a 30 m wide emergency shipping lane at the mouth of the Hay River, which is approximately 1 km wide where it meets Great Slave Lake. Dredge Area B is the three fingers in the East Channel.

The noise and vibration associated with the dredging activities (i.e., barge and tug movement and excavator operation) will likely result in fish staying away from the work areas. Dredging is conducted using an excavator to allow fish to swim away from or out of the bucket. An environmental monitor will be present to make sure mitigative measures are used.

Habitat

The quality of fish habitat in the work area for young fish species is moderate to low due to the high sedimentation and turbidity. One exception may be Walleye, which prefers low light and high turbidity. The area may be suitable nurturing habitat for White and Longnose Suckers, however, they are not classified as a species of concern. The naturally high turbidity of the Hay River interferes with visibility for predatory fish and impacts their hunting ability, making the project area poor habitat for predatory fish. Excavators will be placed on barges, not on land. Therefore, river bank habitat will not be affected.

Fish Species

The following fish species are known to be in the Hay River and Great Slave Lake:

- | | |
|--|---|
| - Arctic Grayling (<i>Thymallus arcticus</i>) | - Trout-Perch (<i>Percopsis omiscomaycus</i>) |
| - Walleye (<i>Sander vitreus</i>) | - Finescale Dace (<i>Phoxinus neogaeus</i>) |
| - Inconnu (<i>Stenodus leucichthys</i>) | - Fathead Minnow (<i>Pimephales promelas</i>) |
| - Lake Trout (<i>Salvelinus namaycush</i>) | - Flathead Chub (<i>Platygobio gracilis</i>) |
| - Northern Pearl Dace (<i>Margariscus margarita</i>) | - Ninespine Stickleback (<i>Pungitius pungitius</i>) |
| - Northern Redbelly Dace (<i>Phoxinus eos</i>) | - Longnose Dace (<i>Rhinichthys cataractae</i>) |
| - Cisco (<i>Coregonus artedii</i>) | - Chum Salmon (<i>Oncorhynchus keta</i>) (rare occurrences) |
| - Spottail Shiner (<i>Notropis hudsonius</i>) | - Sockeye Salmon (<i>Oncorhynchus nerka</i>) (rare occurrences) |
| - Longnose Sucker (<i>Catostomus catostomus</i>) | - Arctic Sculpin (<i>Myoxocephalus scorpioides</i>) |
| - White Sucker (<i>Catostomus commersonii</i>) | - Deep Water Sculpin (<i>Myoxocephalus thompsonii</i>) |
| - Lake Whitefish (<i>Coregonus clupeaformis</i>) | - Spoonhead Sculpin (<i>Cottus ricei</i>) |
| - Slimy Sculpin (<i>Cottus cognatus</i>) | - Goldeye (<i>Hiodon tergisus</i>) |
| - Lake Chub (<i>Couesius plumbeus</i>) | - Sauger (<i>Sander canadensis</i>) |
| - Brook Stickleback (<i>Culaea inconstans</i>) | - Yellow Perch (<i>Perca flavescens</i>) |
| - Northern Pike (<i>Esox lucius</i>) | - Arctic Lamprey (<i>Lethenteron camtschaticum</i>) |
| - Burbot (<i>Lota lota</i>) | - Least Cisco (<i>Coregonus artedii</i>) |
| - Emerald Shiner (<i>Notropis atherinoides</i>) | - Round Whitefish (<i>Prosopium cylindraceum</i>) |
| - Spottail Shiner (<i>Notropis hudsonius</i>) | - Shortjaw Cisco (<i>Coregonus zenithicus</i>) |
| - Rainbow Trout (<i>Oncorhynchus mykiss</i>) | |

Comments or Questions?

The GNWT-INF is interested in receiving feedback from residents and stakeholders. Questions related to the dredging project and permitting process can be directed to Hay River Engagement at hayriverengagement@ae.ca



April 4, 2024

Kathy Racher
Executive Director
Mackenzie Valley Land and Water Board
PO Box 2130
Yellowknife, NT X1A 2P6

Dear Ms. Racher:

RE: Submission of Updated Management Plans for the Hay River Harbour Restoration Type B Water Licence MV2023L8-0005

The Government of Northwest Territories (GNWT) – Department of Infrastructure (INF) is submitting the management plan revisions in accordance with the Type B Water Licence MV2023L8-0005.

The following management plans required revisions as per recommendations provided in letters from the MVLWB (dated March 19, 2024)

- Engagement Plan (Version 2.1);
- Sediment and Erosion Control Plan (Version 2.1); and
- Monitoring Plan (Version 2.1).

The appended conformance table demonstrates how the contents of the report meet the conditions and requirements of the licence, and includes a summary of the revisions made to the management plans.

Should you have any questions or concerns please contact Aileen Stevens, Senior Technical Officer, at (867) 767-9048 ext. 32066 or by email at Aileen_Stevens@gov.nt.ca at your earliest convenience.

Sincerely,

Mark Cronk
Director, Design and Technical
Services
Department of Infrastructure



Attached:

- Conformance table
- Version 2.1 of the Hay River Harbour Restoration Monitoring Plan
- Version 2.1 of the Sediment and Erosion Control Plan
- Version 2.1 of the Engagement Plan



Conformance Table - MV2023L8-0005_Water Licence March 2024 Submission

Plan Title	Summary of Changes/Plans
Engagement Plan Version 2.1	<ul style="list-style-type: none">Updated Table 9-2 to include that affected parties will be notified by email a month prior to the start of dredging activities, and send an email notification to affected parties that the Monitoring Report (which is a component of the WL Annual Report) has been posted and is available for review.
Monitoring Plan Version 2.1	<ul style="list-style-type: none">Clarified the use of 'NTU' and 'TSS' terminology. In instances that 'TSS' was stated, additional information regarding this being extrapolated from turbidity data will be provided.Justification for the reference sites associated with dredging area A has been provided in Section 3.1.1.Updated Fig 1-1 and 1-2 to include all 10 stockpile properties (and property #s)Updated Fig 3-3 and 3-4 to include all 10 stockpile properties, and SNP sump locations. Removed reference to historic MW locations as they are not related to the project.Updated Section 4.1 Water Quality Monitoring in Receiving Waters - revisions to include additional guidance on TSS exceedance reporting and high action level response. Text modified to explain that low and medium actions are focused on investigation; whereas the high action is a stop work.Updated Section 4.2 to clarify that Sump water quality will be included in the Surveillance Network Program (SNP) report, provided within 30 days of the month being reported (as per the Water Licence), and that any guideline exceedances (and mitigations) will be included in the specific pump-off plan.The triggers for enacting adaptive management of sump water are captured in Section 4.2, specifically that if any excessive water is collecting on any of the temporary storage sites from precipitation events or slow infiltration, resulting in sumps reaching capacity or the risk of release to locations off site. Any guideline exceedances (and mitigations)



Plan Title	Summary of Changes/Plans
	will be included in the specific pump-off plan for disposal, however water quality is not a trigger for pump-off.
Sediment and Erosion Control Plan Version 2.1	<ul style="list-style-type: none">• Updated Fig 1-1 and 1-2 to include all 10 stockpile properties (and property #s)• Clarified the use of 'NTU' and 'TSS' terminology. In instances that 'TSS' was stated, additional information regarding this being extrapolated from turbidity data will be provided.