

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
publics et Services gouvernementaux Canada  
800 Burrard Street, 2nd floor  
800, rue Burrard, 2e étage  
Vancouver  
British Columbia  
V6Z 2V8  
Bid Fax: (604) 775-9381

**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise  
indicated, all other terms and conditions of the Solicitation  
remain the same.

Ce document est par la présente révisé; sauf indication contraire,  
les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**  
**Raison sociale et adresse du**  
**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada -  
Pacific Region  
800 Burrard Street, 12th floor  
800, rue Burrard, 12e étage  
Vancouver  
British C  
V6Z 2V8

<b>Title - Sujet</b> Airport Foreshore Erosion Protectio	
<b>Solicitation No. - N° de l'invitation</b> EZ899-140005/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b>	<b>Date</b> 2013-05-01
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWY-025-6977	
<b>File No. - N° de dossier</b> PWY-3-36005 (025)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2013-05-13</b>	<b>Time Zone</b> Fuseau horaire Pacific Daylight Saving Time PDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Fung, Donna(PWY)	<b>Buyer Id - Id de l'acheteur</b> pwy025
<b>Telephone No. - N° de téléphone</b> (604) 666-9835 ( )	<b>FAX No. - N° de FAX</b> (604) 775-6633
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> TC - Sandspit Airport, Sandspit, BC	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation

EZ899-140005/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

003

File No. - N° du dossier

PWY-3-36005

Buyer ID - Id de l'acheteur

pw025

CCC No./N° CCC - FMS No/ N° VME

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Les documents français seront disponibles sur demande.

This Amendment 003 is raised to incorporate Addendum No. 2.

Please see the attached Addendum No. 2.

**All other terms and conditions remain unchanged.**

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

## **CHANGES AND CLARIFICATIONS**

### **SPECIFICATIONS**

#### **01 11 15 MARINE GENERAL INSTRUCTIONS**

##### **1.4 SITE CONDITIONS**

1. Addition: Add sub-clause .4 as follows:
  - .4 Construction conditions by the Department of Fisheries and Oceans and Transport Canada apply to onsite construction works conducted within the tidal zone. Documents identifying these conditions are included in Appendix C. The Contractor is expected to be familiar with, and comply with, any and all conditions identified in these documents throughout construction.

### **SUPPORTING DOCUMENTS**

1. Addition: Add Appendix C, consisting of the following documents:
  - DFO Notification for Sandspit Foreshore Protection
  - 12-033 Sandspit Airport Rip Rap LOA
  - Sandspit Foreshore Protection – Environmental Review Record

**END OF ADDENDUM No. 2**

# PROJECT NOTIFICATION AND REVIEW APPLICATION FORM

Fisheries and Oceans Canada  
Pacific Region

## FOR DFO OFFICE USE ONLY

DFO Receive Date:

DFO Sub-Area Office:

Path #:

ADM:

To determine whether you should complete this form, follow the steps on DFO's Working Near Water website ([www.pac.dfo-mpo.gc.ca/habitat/know-savoir-eng.htm](http://www.pac.dfo-mpo.gc.ca/habitat/know-savoir-eng.htm)). For instructions on how to complete and submit this form, refer to the Directions ([www.pac.dfo-mpo.gc.ca/habitat/steps/praf/guide-eng.htm](http://www.pac.dfo-mpo.gc.ca/habitat/steps/praf/guide-eng.htm)) or click on the number links on the left. Forms will not be processed unless all fields are properly completed as described in the directions. Where additional information is provided in attached documents, you must include an appropriate summary in the space provided on the form. Please note that it is your responsibility to understand and comply with other jurisdictions and regulations applicable to your project.

### Application Form Type (select only one type):

- 1  **Notification to DFO.** Please notify DFO 10 business days before starting your work. DFO does not typically respond to Notifications.\*\*  
or  **Request for Project Review**  
or  **Request for a Fisheries Act Authorization?**
- Have you attached "Additional Information to Support a Project Review"?  Yes  No
- Have you attached "Additional Information for a Fisheries Act Authorization"?  Yes  No
- Submission of this form serves as a Subsection 58(1) Schedule VI Fishery (General) Regulations\*\*\*\*\*

2 **Project Title:** Sandspit Airport Foreshore Erosion Protection

### Project Summary

- 3 Is this a "Building Canada" federally funded infrastructure project?  Yes  No
- Is the work or undertaking proposed in response to an emergency as defined by DFO?  Yes  No
- Does the project:
- Have any components within 30 m of the high water mark of a watercourse or water body?  Yes  No
  - Require removal of vegetation within 30 m of the high water mark of a watercourse or water body?  Yes  No
  - Have downstream impacts on water quality or water quantity?  Yes  No
- Does the project involve in-water works (below the high water mark)?  Yes  No

### Contact Information for Proponent, Contractor and Consultant

- 4 Name of proponent: Transport Canada Province/Territory: British Columbia
- Contact name: Karen Hall Postal code: V6Z 2J8
- Mailing address: 620 - 800 Burrard St Tel no.: (604) 666-5382 Ext.
- City/Town: Vancouver Fax no.:
- Email: karen.hall@tc.gc.ca
- Is the Proponent the primary contact for this project?  Yes  No

If no, please enter information for the primary contact in the space below:

<b>Select type of additional contact:</b> <input type="radio"/> Contractor <input type="radio"/> Consultant	
Name of contractor/consultant:	Province/Territory:
Contact name:	Postal code:
Mailing address:	Tel no.: Ext.
City/Town:	Fax no.:
	Email:

## Location of Proposed Development

5 DFO sub-area: North Coast

Name of nearest community: Sandspit

Municipality or District: Sandspit

Province/Territory: BC

Address or legal description:

Sandspit Airport  
P.O. BOX 439 Sandspit, B.C. V0T 1T0

Name of watershed: Pacific Ocean

Name of watercourse(s) or water body(ies) likely to be affected: Shingle Bay/Hecate Strait

Map coordinates of the proposed development:

Latitude 53 15 15 N or UTM zone \_\_\_\_ ; \_\_\_\_\_ Easting \_\_\_\_\_ Northing  
Longitude 131 48 50 W

6 Brief directions to access the proposed project site: *(limit of 240 characters)*

The project site can be accessed via security escort, airside at the Sandspit Airport. The foreshore can be accessed if you walk along the beach from the Sandspit Public Port Facility.

## Other Permitting Processes

7 For projects proposed in British Columbia:

Have you made a submission under BC Water Act?

Yes  No

If yes, please indicate the type and provide the file number:

- Section 9 Notification - Tracking #:  
 Section 9 Approval - Water File #:  
 Water License - Water File #:

Does the British Columbia Riparian Areas Regulation apply to this project?

Yes  No

If yes, are you requesting a variance? File #:

Yes  No

For projects proposed in Yukon:

Have you submitted a project application to Yukon Environmental and Socio-Economic Assessment Board?

Yes  No

If yes, please provide the YESAB project number:

## Description of the Aquatic Environment

8 What is the type of watercourse or water body that you plan to work in or near?

- |                     |   |                                    |                                   |
|---------------------|---|------------------------------------|-----------------------------------|
| Freshwater:         | <input type="checkbox"/> Stream                       | <input type="checkbox"/> Lake      | <input type="checkbox"/> Wetland  |
|                     | <input type="checkbox"/> River mainstem               | <input type="checkbox"/> Pond      |                                   |
|                     | <input type="checkbox"/> Active floodplain            | <input type="checkbox"/> Reservoir |                                   |
| Coastal and Marine: | <input checked="" type="checkbox"/> Exposed coastline | <input type="checkbox"/> Cove      | <input type="checkbox"/> Mud flat |
|                     | <input type="checkbox"/> Salt marsh                   | <input type="checkbox"/> Bay       | <input type="checkbox"/> Beach    |
|                     | Other: <input type="checkbox"/> Estuary               |                                    |                                   |

## Description of the Aquatic Environment *(continued)*

- 9 Briefly describe the biological and physical characteristics of the proposed project site. *(limit of 800 characters)*  
(Channel width, type and flow, tides, water depth, substrate type and density, aquatic and riparian vegetation type and density)

The runway is situated such that it spans across the 'spit' and as such, the Runway 12 approach is situated over open coastal waters at the North end of the spit. The beach fronting the spit is under constant wave action and has no established vegetation. Pictures attached.

The intertidal zones of Shingle Bay, adjacent to where the project will occur, are known to have both eel grass beds which provide a food source for over-wintering brant and spawning habitat for pacific herring.

- 10 Include representative photos of affected area and clearly mark the location of proposed activities.

*Have you attached photos?*

Yes  No

- 11 For freshwater, what fish species are known to be present at or near your project?

Salmon (anadromous only)  Other

- 12 Are any aquatic species likely present at the project site that are:

*Listed under the federal Species at Risk Act?*

Yes  No  Uncertain

*Designated under the British Columbia Wildlife Act?*

Yes  No  Uncertain

*Listed under the Yukon Wildlife Act?*

Yes  No  Uncertain

If yes, list the species:

## Description of the Proposed Development

- 13 With which industry is your project associated?

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Agriculture              | <input type="checkbox"/> Industrial/commercial | <input type="checkbox"/> Power generation            |
| <input type="checkbox"/> Aquaculture              | <input type="checkbox"/> Military/security     | <input type="checkbox"/> Private residential         |
| <input type="checkbox"/> Commercial fishing       | <input type="checkbox"/> Mining                | <input checked="" type="checkbox"/> Transportation   |
| <input type="checkbox"/> Conservation/restoration | <input type="checkbox"/> Oil and gas           | <input type="checkbox"/> Urban and rural development |
| <input type="checkbox"/> Forestry                 |  |  |
| <input type="checkbox"/> Other:                   |  |  |

## Description of the Proposed Development *(continued)*

- 14 What are you planning to do?** Briefly describe all the project components you are proposing in or near water.

*(limit of 400 characters)*

*Have you considered and incorporated all options for redesigning and relocating your project to avoid negative impacts to fish and fish habitat?*

Yes  No

*If yes, include in description.*

This project will involve the reconfiguration of approximately 250 linear metres of shoreline rip rap which protects the north end of Runway 12 at the Sandspit Airport. In order to create stability and strength, Transport Canada will be required to build the revetment into the foreshore.

- 15 How are you planning to do it?** Briefly describe the construction materials, methods and equipment that you plan to use.

*(limit of 400 characters)*

*Have you considered and incorporated all best practices and mitigation measures recommended in relevant guidelines to avoid negative impacts to fish and fish habitat?*

Yes  No

*If yes, include a description in **21***

Excavation will be required on existing airport land to a distance of approximately 20 metres into the foreshore, to a maximum depth of 1.6 metres at the toe of the revetment.

Work will be accomplished using an excavator during low tides

All equipment will be removed from the beach during high tides.

Depending on tendering process, it is expected the rip rap will be locally sourced

- 16 Include a site plan (figure/drawing) showing all project components in and near water.**

*Are details attached?*

Yes  No

- 17 Implementation schedule and proposed project timing:**

YYYY/MM/DD

YYYY/MM/DD

*What is the start and end date for the proposed project:*

2013/09/01

to

2013/10/31

*What is the schedule of all proposed work activities? (limit of 300 characters)*

The project will be tendered through the Public Works and Government Services Canada in the new fiscal (April 2013). To minimize disruption to project activity, due to summer air traffic, Transport Canada will be asking contractors to start in September. Work will be completed during low tides.

- 18 Will you follow the appropriate Timing Windows for all activities below the High Water mark?**

Yes  No

*If no, why not? (limit of 300 characters)*

Transport Canada is hoping to take advantage of the low tides in September to ensure the tide does not impact the work and that equipment is not working in the wet. Equipment will not be permitted to travel on the foreshore in the areas near the eel grass beds adjacent to the work site.

**Description of the Proposed Development** *(continued)*

**19** Indicate the extent of the area (in square metres) that your project will affect in and/or near water. Identify if areas would be temporarily and/or permanently affected. *(limit of 400 characters)*

3400 square metres of the foreshore will be removed and replaced to strengthen the revetment.

**20** Will you be withdrawing or discharging water?  Yes  No

*If so, identify your water source and describe the volume and rates. (limit of 400 characters)*

**Description of the Proposed Fish and Fish Habitat Protection Measures**

**21** Outline all the measures and practices that you will apply to avoid and/or minimize impacts to the aquatic environment. *(limit of 900 characters)*

Will take incorporate mitigation provided in letter to TC from DFO dated February 8, 2012. DFO File# 12-hpac-pa4-00033  
Regarding Sandspit Airport Rip Rap Retrieval  
Spill kit will be on site  
Equipment will be removed from beach at the end of each work day  
Any invertebrates that are found on current Rip Rap will be removed and replaced in the nearby marine environment

**22** I, Karen Hall (print name) certify that the information given on this form is to the best of my knowledge correct and completed.

2013/04/26

Date (YYYY/MM/DD)

Information about the above-noted proposed work or undertaking is collected by DFO under the authority of the *Fisheries Act* for the purpose of administering the fish habitat protection provisions of the *Fisheries Act*. Personal information will be protected under the provisions of the *Privacy Act* and will be stored in the Personal Information Bank number DFO PPU 080. Under the provisions of the *Privacy Act*, individuals have a right to, and on request shall be given access to any personal information about them contained in a personal information bank. Instructions for obtaining personal information are contained in the Government of Canada's Info Source publications available at [www.infosource.gc.ca](http://www.infosource.gc.ca) or in Government of Canada offices. Information other than "personal" information may be accessible or protected as required by the provision of the *Access to Information Act*.



228-417 2<sup>nd</sup> Ave West  
Prince Rupert, BC  
V8J 1G8

February 8, 2012

*Your file*      *Votre référence*

*Our file*      *Notre référence*

12-hpac-pa4-00033

Warren Foster  
Transport Canada  
PO Box 439  
Sandspit, BC  
V0T 1T0

Dear Mr. Warren Foster:

**Subject:** Proposal not likely to result in impacts to fish and fish habitat provided that additional mitigation measures are applied.

Fisheries and Oceans Canada - Fish Habitat Management Program (DFO) received your proposal on February 8, 2012. Please refer to the file number and title below:

DFO File No.:            **12-hpac-pa4-00033**  
Title:                      **Sandspit Airport Rip Rap Retrieval**

Your proposal has been reviewed to determine whether it is likely to result in impacts to fish and fish habitat which are prohibited by the habitat protection provisions of the *Fisheries Act* or those prohibitions of the *Species at Risk Act* that apply to aquatic species.\*

Our review consisted of:

- Project Review Application Form submitted February 8, 2012.
- Telephone conversation between Warren Foster (TC) and Darren Chow (DFO) on February 8, 2012.

We understand that you propose to:

- Retrieve rip rap armour rock, which has moved over the course of time due to storm activity, from below the high tide mark and re-install in within the original footprint of the armouring.
- The project will occur within one tide change.

\*Those sections most relevant to the review of development proposals include 32 and 35 of the *Fisheries Act* and sections 32, 33 and 58 of the *Species at Risk Act*. For more information please visit [www.dfo-mpo.gc.ca](http://www.dfo-mpo.gc.ca).

To reduce potential impacts to fish and fish habitat we are recommending the following mitigation measures be included into your plans:

- No refuelling of equipment to occur within 25 metres of the high water mark.
- All equipment operating within the 20 metres of the high water mark and below are to be clean and free of dirt, debris or hydrocarbons and are to be inspected prior to entering this zone.
- A spill kit is to be on site and readily available in the event that a hydrocarbon spill occurs.
- Access to the site should be kept to one identified access lane in order to protect riparian vegetation.
- Common traffic lanes should be employed when retrieving and replacing rip rap in order to minimize beach disturbance.
- When retrieving rip rap avoid leaving void areas which may strand fish.

Provided that the additional mitigation measures described above are incorporated into your plans, DFO has concluded that your proposal is not likely to result in impacts to fish and fish habitat.

You will not need to obtain a formal approval from DFO in order to proceed with your proposal.

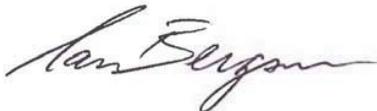
Please notify this office at least 10 days before starting the work. A copy of this letter should be kept on site while the work is in progress.

If the plans have changed or if the description of your proposal is incomplete you should contact this office to determine if the advice in this letter still applies.

Please be advised that any impacts to fish and fish habitat which result from a failure to implement this proposal as described could lead to corrective action such as enforcement.

If you have any questions please contact Ian Bergsma at our Prince Rupert office at 250-627-3080, by fax at 250-627-3480, or by email at [Ian.Bergsma@dfo-mpo.gc.ca](mailto:Ian.Bergsma@dfo-mpo.gc.ca).

Yours sincerely,



Ian Bergsma  
A/Habitat Management Biologist

cc: Joy Hillier, DFO-EMB Section Head



## Transport Canada Pacific Region Environmental Review Record

*This form is an internal tool used to determine potential environmental impacts of projects occurring on federal lands and to direct OPIs to appropriate documents, regulations and/or best management practices, if applicable for the purpose of environmental protection*

### A. PROJECT DESCRIPTION

<b>Project Title</b>	<b>Sandspit Airport Foreshore Erosion Protection</b>
<b>Project Location</b>	<b>Sandspit Airport, British Columbia</b>
<b>OPI File no.</b>	<b>THO File no. 59WU (PAD RDIMS# 6368948)</b>
<b>RDIMS Record no.</b>	<b>8247989</b>
<b>NEATS Record no.</b>	<b>32148</b>

### B. PROJECT CONTACTS

<b>Proponent</b>	Transport Canada – Pacific Region Operations	<b>Telephone</b>	
		<b>Email</b>	
<b>Representative and/or Environmental Consultant (if applicable)</b>	Transport Canada – Pacific Region Environmental Services	<b>Telephone</b>	
		<b>Email</b>	

### C. PROJECT DESCRIPTION

The runway is situated such that it spans across the 'spit' and as such each of the approaches are situated over open coastal waters. These approaches are subject to heavy and frequent winter storms which are known to cause severe wave surge action against the existing shoreline rip-rap revetment. The overtopping of the revetment has become more frequent in recent years and as a result of the recent damages, a full re-reconstruction of the damaged section is now required.

In the spring of 2010, emergency repairs were made to a 20 metre section of the rip-rap. In December of 2011 the end of the runway was again subject to severe wave overtopping during a significant storm event. In 2012, the Airport implemented a rip rap retrieval process, incorporating DFO advice, to reduce loss of material from the existing foreshore protection. Unfortunately, due to continued yearly storm events, failure to re-construct the revetment could result in the loss of land and damage to the runway lighting system.

This project will involve the reconfiguration of approximately 250 linear metres of shoreline rip rap which protects the north end of Runway 12. Because of height restrictions under the Canadian Aviation Regulations, Transport Canada will not be able to increase the elevation of the top of the foreshore protection. In order to create stability and strength, Transport Canada will be required to build out into the foreshore. Excavation will be required on existing airport land to a distance of approximately 20 metres into the foreshore, to a maximum depth of 1.6 metres at the toe of the revetment. This excavation will allow the installation of a geotextile and subgrade surface prior to the installation of riprap armour. On the upland, there will be a horizontal mattress of underlayer rock for erosion control for approximately 6



metres from the berm that existed in 2010, and the flat top of the rip rap armour will extend out another 4 metres from the existing berm before sloping towards the foreshore for a distance of approximately 5 metres and then will follow the beach slope for approximately 5 metres finishing with a toe that is 0.5 metres above the existing beach level.

The total area affected is about 3,400 m<sup>2</sup>.

Work will be accomplished using an excavator during low tides with new rock delivered by trucks on existing roads. All equipment will be removed from the beach during high tides. Transport Canada is looking to use locally sourced quarry rock but material sourcing will not be confirmed until the tendering process is completed.

#### D. FEDERAL ACTION REQUIRED

##### Transport Canada:

- Is the proponent of the project
- Proposes to fund all or part of a project  
(Which G&C Program)
- Proposes to sell, lease or otherwise dispose of land for the project
- Proposes to issue a license, permit, approval (Which license, permit or approval)
- Minister approval required
- No formal federal action required.

##### Other Government Departments:

Identify the department(s)

- Is the proponent of the project
- Proposes to fund all or part of a project  
(Which G&C Program)
- Proposes to sell, lease or otherwise dispose of land for the project
- Proposes to issue a license, permit, approval (Which license, permit or approval)
- Minister approval required
- No formal federal action required but will provide expert advice

##### Details:

*This project is being overseen by Transport Canada – Pacific Region, Operations Division.*

#### E. TRANSPORT CANADA ENVIRONMENTAL REVIEW

##### Review under the Transport Canada Environmental Management System

- Transport Canada is committed to environmental stewardship under the National Environmental Management System. A region based environmental review has been conducted for applicable federal environmental interests.
- Based on operation experience, this project and/or activity has been identified as not having the potential to have an environmental effect. An environmental due diligence review was not required.

##### Review under CEAA 2012

- The project as proposed does not meet the definition of a designated project under CEAA 2012. However, this project is located on federal land and is therefore reviewable under Section 67 of CEAA 2012.
- No formal federal action is being taken to enable the project. Section 67 of CEAA 2012 does not apply.

**F. PROCESS FIRST NATION CONSULTATION**

This project has been identified as unlikely to trigger a *Constitution Act* section 35 legal duty to consult as there is no crown conduct that would impact any potential or established section 35 rights. This project requires no consultation.

Although it has been determined that there is no *Constitution Act* section 35 legal duty to consult, the project is being analyzed for potential environmental effects, as per section 5(1)(c) of CEAA 2012.

This project activity does trigger a *Constitution Act* section 35 legal duty to consult

s. 35 consultation is being conducted by the authority in Transport Canada responsible for the federal action enabling the project activity

s. 35 consultation is being conducted as a part of the projects potential environmental effects, as per s.5(1)(c) of CEAA 2012.

RDIMS # for Consultation Record:   n/a



## G. ENVIRONMENTAL PROTECTION MEASURES

The following aspects and management components under Transport Canada's National Environmental Management System were taken into consideration:

- |   |  |
|---|--|
| <input type="checkbox"/> Air Quality                      | <input type="checkbox"/> Hazardous Material Management   |
| <input type="checkbox"/> GHGs                             | <input type="checkbox"/> Glycol  |
| <input type="checkbox"/> Air Pollutants                   | <input type="checkbox"/> Storage Tanks   |
| <input type="checkbox"/> Land Management                  | <input type="checkbox"/> Ozone Depleting Substances  |
| <input type="checkbox"/> Contaminated Soils/Sediments     | <input type="checkbox"/> Pesticides  |
| <input type="checkbox"/> Archaeology                      | <input type="checkbox"/> Other Identified Hazardous Materials  |
| <input checked="" type="checkbox"/> Water Quality         | <input type="checkbox"/> Resource Use  |
| <input type="checkbox"/> Drinking                         | <input type="checkbox"/> Fuels   |
| <input type="checkbox"/> Storm Water                      | <input checked="" type="checkbox"/> Flora/Fauna Management   |
| <input checked="" type="checkbox"/> Surface               | <input checked="" type="checkbox"/> Fish and Fish Habitat  |
| <input type="checkbox"/> Wastewater                       | <input type="checkbox"/> Species at Risk   |
| <input type="checkbox"/> Waste Management                 | <input type="checkbox"/> Migratory Birds   |
| <input type="checkbox"/> Non-Hazardous                    | <input checked="" type="checkbox"/> Environmental Assessment   |
| <input type="checkbox"/> Hazardous                        | <input checked="" type="checkbox"/> CEAA 2012 Sec 67   |
| <input type="checkbox"/> Emergency Preparedness           | <input type="checkbox"/> Environmental Monitoring  |
| <input type="checkbox"/> Environmental Emergency Plans    | <input type="checkbox"/> Due to the nature and/or location of the project/activity, a review under NEMS was not considered necessary |
| <input type="checkbox"/> Environmental Emergency Exercise |  |
| <input type="checkbox"/> Green Buildings                  |  |

Environmental Services has reviewed the following documents to determine the potential environmental impacts to the identified environmental components:

- Project Approval Document (RDIMS# 6368948)
- Tender Specifications Specifically Environmental Procedures
- Transport Canada Region Report on Findings Environmental Baseline Study Part 1 (RDIMS# 18401)
- Transport Canada Natural Resources Inventory and Natural Resources Management Plan for Sandspit Airport (RDIMS# 1958221)
- Drawings produced by Herold Engineering Limited for the Transport Canada Airport Erosion Protection Revision 8
- Letter from DFO to TC dated February 8, 2012. DFO File# 12-hpac-pa4-00033 Regarding Sandspit Airport Rip Rap Retrieval

### Fish and Fish Habitat and Water Quality

In order to build and strengthen the foreshore protection, work will need to be completed with equipment on the foreshore/beach. The work will also include excavation within the foreshore to lay down an appropriate foundation in order to build up the armouring again. The following mitigation will be implemented:

- Transport Canada has reviewed the tender specifications and is satisfied that there are adequate contract specifications in place to ensure protection of surrounding environment, which include:
  - Ensure that operations meet all applicable environmental regulations and standards
  - Maintain temporary erosion and pollution control features installed
  - Spill kits and containment are to be maintained on site and ready for deployment in case of spills
  - Make every effort to minimize disturbance to the benthic and upland wildlife communities
  - Any large invertebrates adhering to the portion of the revetment under construction must be removed and replaced in the nearby marine environment
  - Do not disturb eel grass or kelp beds



- The Contractor must contact PWGSC at a minimum 10 days prior to the start of works so that Transport Canada can contact DFO.
- Transport Canada is aware that Section 36(3) of the federal *Fisheries Act*, administered by Environment Canada, prohibits the discharge of deleterious substances to waters frequented by fish, or to a place where those substances might enter such waters. The Contractor and Public Works and Government Services Canada must ensure on behalf of Transport Canada that, at all times during the project, deleterious substances are prevented from entering into fish-bearing waters. Due diligence is required at all times to prevent such discharges.
- Applicable mitigation, as provided in the letter from DFO to TC dated February 8, 2012 - DFO File# 12-hpac-pa4-00033 Regarding Sandspit Airport Rip Rap Retrieval, will be incorporated into the mitigation for this project.
- Equipment will be restricted to the area in which the works are occurring.
- Native beach material will not be used for any purpose in carrying out this project.

### **Environmental Emergencies**

Without appropriate environmental emergency response measures in place, this activity could have an impact on the environment if an accident or malfunction were to occur. An appropriate spill prevention, containment, and clean up contingency plan for deleterious substances (eg., fuel, oil, hydraulic fluid, concrete and concrete leachate etc.), will be required prior to work commencing. The Contractor is responsible for supplying their own spill response equipment.

The Contractor will be required to also have personnel trained to use the spill equipment. If required, additional spill response equipment is located at the Airport.

Environmental Services is satisfied that sufficient planning is in place for an environmental emergency.

### **Environmental Monitoring**

Transport Canada will request the Contractor to provide a short report (1-2 pages) once completed, outlining the following:

- If an Environmental Monitor was used and if so, name and credentials. If not, the name of the site supervisor responsible for stopping and assessing a situation if an emergency were to occur, (e.g. spill)
- Dates work was carried out
- Picture of BMPs implemented to reduce impacts on water quality outside of the immediate work area
- Picture of Spill kit on site
- Details of any incidents and follow-up actions taken, if applicable

Transport Canada staff will also monitor the project while machinery are active on site.

### **Review Conclusions**

Environmental Services is satisfied, based on the review of the above mentioned documents, that sufficient consideration has taken regarding the potential environmental impacts associated with this type of activity, within the proposed work location.



**H. ENVIRONMENTAL DETERMINATION**

**Transport Canada National Environmental Management System**

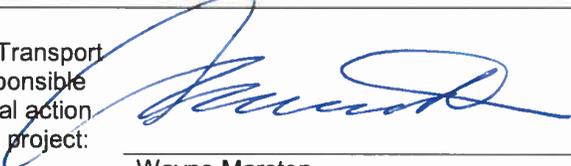
- A region based environmental review has been conducted for applicable federal environmental interests. With appropriate environmental mitigation in place, the proposed project and associated activities will have a minimal impact on environmental components of federal interest.
- A review under NEMS was not required.

**Section 67 Determination under CEAA 2012**

- Transport Canada has determined that the carrying out of the project is not likely to cause significant adverse environmental effects
- Transport Canada has determined that carrying out of the project is likely to cause significant adverse environmental effects and the Governor in Council must decide if those effects are justified in the circumstances under subsection 69(3) of CEAA 2012.
- Not Applicable

**I. SIGN-OFF**

Analysis Completed by:	<i>Karen Hall</i> Environmental Officer Transport Canada	Date:	April 29/13
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Authority in Transport Canada responsible for the federal action enabling the project:	 _____ Wayne Marston Regional Manager, Operations Transport Canada	 _____ Date
The above has read this Environmental Review, and confirms that the environmental measures/controls required to reduce the impact to the environment will be incorporated into appropriate tools being used to carry out the federal action enabling the project. Environmental Services is also committed to carrying out monitoring and oversight and will be supported by this Division in conducting appropriate site visits and/or requesting documentation as requested.		

Environmental Services Support Provided By:	 _____ Ian Chatwell Regional Manager, Environmental Services Transport Canada	April 30, 2013 _____ Date
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