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Basic Impact Analysis

Deep Cove Slope Stabilization Gros Morne National Park

November 2013

GMNPC-2013-005



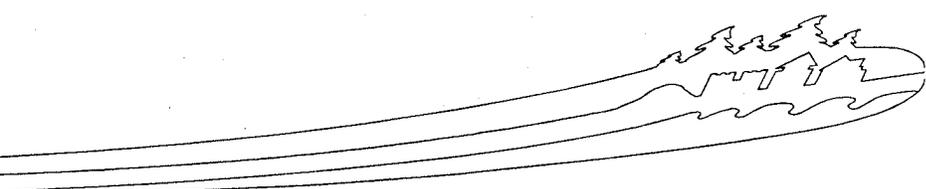
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1. PROJECT TITLE	Deep Cove Slope Stabilization	
2. PROJECT LOCATION (Park, Site, Canal, NMCA)	Gros Morne National Park	
3. PROJECT SITE(S)	Highway route 430 at Deep Cove - Bonne Bay, East Arm	
4. PROPONENT	Darren Nicolle (Asset Manager, Gros Morne NPC)	
5. PROPONENT CONTACT INFORMATION	Gros Morne NPC, Box 130, Rocky Harbour, NL. A0K4N0 tel. 709-458-3568 cell 709-458-7110. Email <i>Darren.Nicolle@pc.gc.ca</i>	
6. PROJECT DATES	Commencement: (2014-01-20)	Completion: (2014-09-14)
7. INTERNAL PROJECT FILE #	GMNPC-2013-005	
8. PROJECT DESCRIPTION (For help completing this section see instructions at end of document)		
<p>A short section of highway route 430 will be reconstructed to stabilize the rock slope on which the road currently exists. To avoid any impacts to the Bonne Bay marine environment the solution will be to remove a section of the existing rock face and realign the highway onto a more stable substrate further inland. Highway 430 will be maintained during the construction phase to allow for continued traffic flow during the project. Blasted rock and excavated materials will be transported to an approved off-site location for storage and use on other future highway projects. The new rock face will be drilled and permanently secured with bolts and the new realigned roadbed will be built over a geotextile base to prevent fine substrates from percolating under the new roadbed which otherwise could compromise integrity of the road. Culverts will be installed under the new roadbed along with a geotextile lined 7 metre wide catchment ditch for surface water run-off and minor frost-fractured rock debris. Finally, the old roadbed will be decommissioned and its pavement surface will be removed and transported to an approved off-site location for storage until recycled for other future highway projects.</p>		
9. ENVIRONMENTAL COMPONENTS LIKELY TO BE AFFECTED (For help completing this section see instructions at end of document)		
<p>Natural Resources > Few, if any, significant natural resources are expected to be impacted by this project. The work is totally land-based, no project activities will occur in Bonne Bay marine waters and no construction materials are to enter the bay. Several trees and shrub vegetation will be removed from the sight-line approaches and on top of the existing rock face before drilling and blasting for the highway realignment. However, these disturbances will be confined to the highway corridor and on existing narrow right-of-way used for servicing the hydroline several metres above the site. Excavated blasted rock will be transported to nearby Barachois pit for re-use on future highway projects.</p> <p>Cultural Resources > None realized.</p> <p>Visitor Experience > Public safety must be a priority during all phases of the project.</p>		
10. IMPORTANT EFFECTS IDENTIFIED (For help completing this section see instructions at end of document)		
<p>Site vegetation > roadside trees, shrubs and ground vegetation</p> <p>Water quality > silted run-off water flowing from the site and through culverts onto the rocky slope down to Bonne Bay</p>		
11. MITIGATION MEASURES (For help completing this section see instructions at end of document)		
<ul style="list-style-type: none"> - The construction site must be confined to as small an area as necessary to safely complete the project. - All trees, limbs and shrubs cut to clear the area prior to construction must be transported off the site. - Insure that fueling of all machinery occurs greater than 100 metres from all water sources, and immediate clean up of any spilled petroleum products (e.g., fuel, hydraulic oil, lubricants) will be required. - Install silt traps everywhere there could be potential for sediments or debris to enter Bonne Bay. 		
12. IMPACT SIGNIFICANCE (For help completing this section see instructions at end of document)		





No significant adverse effects are anticipated from this project as long as all materials and sediment run-off are prevented from entering Bonne Bay.

13. SITE INSPECTION (For help completing this section see instructions at end of document)

Site inspection not required

Site inspection required

Site Inspection program details

R. G. Thompson inspected the site in August 2013 during the project's planning stage. No land-based natural resources of special significance were observed at that time.

Periodic site visits are recommended during the construction and completion/implementation phases.

14. EXPERTS CONSULTED (Including PC Experts)

Department/Agency/Institution	Geological Survey of Newfoundland and Labrador
Contact Information	Ian Knight, Ph.D. Project Geologist Tel 709-729-4119 Email: ianknight@gov.nl.ca
Date of Request	(2013-08-15)
Expertise Requested	Significance of fossils found at the Deep Cove site.
Response	Dr. Knight has examined for fossils at the roadside rock cuts along Bonne Bay route 430 and reports that this site showed no unique fossil finds.

Department/Agency/Institution	Memorial University of Newfoundland
Contact Information	Dr. Robert Hooper (Marine Biologist, Professor) Bonne Bay Biology Station, PO Box 69, Norris Point, NF A0K 3V0 Telephone in St. John's 709 864 7494 fax: 709 864 3018 Telephone in Bonne Bay 709 458 2550 fax 709 458 2605
Date of Request	(2013-08-14)
Expertise Requested	Importance of marine life in Bonne Bay at the Deep Cove site.
Response	Project materials (e.g., rock) entering this shoreline of Bonne Bay could have direct impacts on the habitats of Atlantic Wolfish (<i>Anarhichas lupus</i>), a species listed under the federal <i>Species at Risk Act</i> (SARA) and the Acadian Redfish (<i>Sebastes fasciatus</i>), identified by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC).

15. PUBLIC PARTICIPATION No Yes

16. DECISION

Taking into account implementation of mitigation measures outlined in the analysis, the project is:

Not likely to cause significant adverse environmental effects.

Likely to cause significant adverse environmental effects.

SIGNATURES AND APPROVAL



EA Author	
Name: Randy G. Thompson	Title: Resource Management Officer II
Signature <i>Randy G. Thompson</i>	Date <i>26/11/2013</i>
DECISION APPROVAL	
Name: Geoffrey Hancock	Title: Western Newfoundland and Labrador Field Unit Superintendent
Signature <i>Geoffrey Hancock</i>	Date <i>2/12/2013</i>
17. REFERENCE LIST	
1) Deep Cover Slope Stabilization Design Development Report (RS3). 2) Darren Nicolle (Project Proponent) pers. com.	
18. ATTACHMENTS LIST	
List of items attached to this form that are part of the basic EIA.	
19. ADDITIONAL CONSIDERATIONS / COMMENTS	
Use this space to record additional content as needed	





Appendix 1: Effects Identification Matrix (use and include when useful)

EFFECTS IDENTIFICATION MATRIX														
Use the following matrix to identify if your project may have potential impacts on components of the environment		Components of Environment and Mandate Elements Affected by Environmental Change												
		Natural Resources					Cultural Resources		Visitor Experience					
		Air	Rock / Soil	Water	Flora	Fauna	Historic Value	Character defining elements	Viewscape	Visitor appreciation & access	Recreational / other opportunities	Public Safety	Unique character & connection to place	
Phases	Examples of Associated Activities													
Project Components	Construction/Preparation	Supply and storage of materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Burning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Clearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Demolition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Disposal of waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Blasting/ Drilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Dredging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Drainage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Excavation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Backfilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use of machinery	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Transport of materials/ equipment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Building of fire breaks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use of Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Set up of temporary facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Operation/Implementation Decommissioning	Waste disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Wastewater disposal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use/Removal of temporary facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use of Chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Active fire stage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Prescribed burn cleanup	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Planting		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Culling		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vehicle Traffic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

