



Parks Canada Basic Impact Analysis

1. PROJECT TITLE & LOCATION: Construction of Kitchen Shelter in Loop H, Newman Sound Campground, Terra Nova National Park

2. PROPONENT INFORMATION:

3. PROPOSED PROJECT DATES

Planned commencement: 2018-09-10

Planned completion: 2016-12-21

4. INTERNAL PROJECT FILE #: TN-2017-08

5. PROJECT DESCRIPTION:

The purpose of this project is to construct a kitchen shelter facility in Loop H within Newman Sound Campground. Loop H currently has 5 Otentiks that were installed in 2014. This shelter will provide a facility for the Otentik users to prepare and eat food, wash dishes, etc. This will enhance the offer for the Otentiks and allow for shoulder season accommodation in cooler weather. As identified in its Management Plan, Terra Nova National Park (TNNP) continues to review its camping offer in an effort to diversity and meet the demands of the camping market.

Construction activities include:

- 1. Structural construction of the kitchen shelter including electrical and mechanical work.*
- 2. Clearing and grubbing of vegetation around the kitchen shelter*
- 3. Thinning and pruning of trees.*
- 4. Supply, place and compact class A aggregate around kitchen shelter*
- 5. Install two rock sump drainage pits*
- 6. Disposal of project wastes.*

6. VALUED COMPONENTS LIKELY TO BE AFFECTED

Potential interactions between the project and the surrounding environment are identified in the Effects Identification Matrix ([Appendix 1](#)).

7. EFFECTS ANALYSIS

Natural Resources

Air - During construction activity air quality may be reduced due to air borne dust particles. Heavy equipment exhaust may also affect air quality during construction. Significant effects are not likely.

Soil and landforms - Impacts are expected to be minimal aside from the potential for erosion of soils during construction activities. There are also the potential impacts from soil compaction and contamination due to accidental spills and improperly disposed of waste material. Significant effects are not likely.

Water - The closest water body is Big Brook approximately 220 meters from the site. Significant effects to Big Brook and other water resources are not likely.

Flora (including species at risk) - A small amount of vegetation will be removed for the construction of the shelter. Selective thinning of trees including the removal of limbs and surface fuels will also take place to reduce fire risk around the newly constructed building. The proposed construction areas will be surveyed for Boreal felt lichen (*Erioderma pedicellatum*) and Blue felt lichen (*Degelia plumbea*) before construction commences. Significant effects to flora not likely.





12. All personnel should be aware of the potential for encounters with wildlife and they will be instructed to immediately report any sightings. No attempt to feed, harass or disturb wildlife will be made by any worker.
13. Machine operators will be briefed on proper food and garbage disposal and other wildlife issues before work begins.
14. Grubbing of the organic vegetation mat and/or the upper soil horizons will be restricted to the minimum area required. It will be spread, in a manner to cover inactive exposed areas or retained for use in rehabilitation efforts.
15. During excavation/grubbing, material will not be pushed into areas that are to be left natural and undisturbed.
16. Only clean fill from an approved source will be accepted for backfill or grading.
17. Any reclamation techniques will emphasize the re-vegetation of the cleared areas of the site with topsoil, local plants, shrub and trees approved by Parks Canada.
18. Laydown and storage areas no longer required for construction and operations activities will be rehabilitated.
19. All solid waste will be handled according to and in compliance with applicable federal/provincial regulations.
20. All solid waste materials shall be considered, prior to disposal, for reuse, resale or recycling, and then disposed at an approved facility.
21. Unused cement shall not be deposited within the park and disposed of in an approved manner.
22. Waste accumulated on site prior to disposal will be confined, so that it does not pose an environmental or health hazard.
23. Work areas will be kept clear of waste and litter to reduce the potential for attracting wildlife and reducing potential interactions with wildlife. Any waste that may attract animals (i.e., food) will be stored in covered, wildlife-proof containers.
24. Cleared vegetation will be removed from the site in a manner approved by Parks Canada. Burning and chipping of vegetation on site is not permitted.
25. Heavy equipment will only be used in designated work areas and access corridors. Travel in areas outside designated work areas/corridors will not be permitted.
26. Surface water shall be directed away from work areas by ditching. Runoff from these areas shall have sediment removed by filtration or other suitable methods and shall be directed away from wetlands and watercourses.
27. Machinery is to arrive on-site in a clean condition and should be free of soils and vegetation and maintained free of fluid leaks. For all contractors, Spill Response Kits (absorbent materials, etc.) must be on-site at all times. In the event of any spill of deleterious substances (e.g., petroleum hydrocarbons, hydraulic fluid), the contractor is responsible for containing and cleaning up the spill; the spill is to be reported and sent to Parks Canada. In the event of a reportable spill on-land or a spill, regardless of size, in the freshwater environment, applicable federal legislation/regulations will be followed.
28. Only minor repairs and maintenance (e.g., lubrication) of 'non-mobile' equipment such as flatbeds, shovel or drilling equipment will be performed on-site. All major repairs, where possible, are to be performed at an existing garage location outside of the project area.
29. All fuel and other hazardous materials will be handled following applicable federal legislation/regulations.
30. Handling and fuelling procedures will comply with the applicable federal legislation/regulations and any additional requirements in order to limit potential contamination of soil or water, and will not occur within 100 m of any water body.
31. The conditions presented in this basic impact analysis (BIA) will be considered part of the project and must be approved by the Field Unit Superintendent prior to the commencement of work.
32. All activities must conform to relevant Occupational Health and Safety Guidelines and to all relevant Municipal, Provincial and Federal regulations.





Almost the entire landscape within Terra Nova National Park has been identified as Marten Critical Habitat. According to the Recovery Strategy for the American Marten (Environment Canada, 2013), critical habitat is defined in terms of forested habitat types most used by marten and includes two of the more dominant types found within TNNP. Hearn et al. (2010) recommends in the Recovery Strategy that areas managed at the landscape (ie. home range) scale should include >24% mature and overmature forest, and not exceed 29% younger aged forest. A third total forest cover threshold of 25% has been used since marten select mainly forested landscapes in the park as part of their home range. Parks Canada has a legal requirement to ensure that activities or projects within the park do not destroy critical habitat. Although this project activity is not listed in the Recovery Strategy as an activity that has the potential to destroy critical habitat of marten, a GIS analysis using the landscape thresholds above was conducted. It has been determined that the maximum total area of forest to be removed from the landscape in this project (0.12 ha) does not result in the destruction of critical habitat for marten. While this project does not destroy critical habitat, cumulative effects of these types of projects may be destructive over time. Thus a landscape approach to management will be used to maintain these thresholds on the landscape. Areas to be cleared and excavated will be inspected for the presence of individual marten or dens prior to construction.

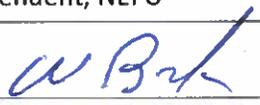
The Atlantic Population of the Boreal felt lichen (*Erioderma pedicullatum*) and the Blue felt lichen (*Degelia plumbea*) are listed as Special Concern on Schedule 1 of the SARA and are found within park boundaries. Vegetation identified for removal was inspected on November 14, 2017. Both species were not observed during this inspection.

The little brown bat or little brown myotis (*Myotis lucifugus*) and Northern myotis (*Myotis septentrionalis*) are present in the park and protected under the federal SARA. The presence of individuals or roosting sites for both species will be determined before the project commences.

Avian species protected under SARA that may be found in the park include the Red crossbill (*Loxia curvirostra perna*) - Endangered, Olive sided flycatcher (*Contopus cooperi*) - Threatened and Rusty blackbird (*Euphagus carolinus*) - Special Concern. The presence of individuals or nesting sites will be determined before the project commences.

13. RECOMMENDATION AND APPROVAL

(Add additional blocks as required)

Prepared by: Rod Cox – Resource Management Officer	Date: 2018-04-24
Recommended by: Jerry Feltham – Manager, FII	
Signature: 	Date: 04/30/18
Approval signature: Bill Brake – Superintendent, NEFU	
Signature: 	Date: Apr 30 / 18

14. ATTACHMENTS

- 14.1. BMPS
- 14.2. Other

15. NATIONAL IMPACT ASSESSMENT TRACKING SYSTEM

- Project registered in tracking system
- Not yet registered (CEAA 2012 requires PCA submit a report to Parliament annually. EIAs must be entered in the tracking system **by the end of April** to enable reporting.





Appendix 1 : Effects Identification Matrix (optional)

Section A focuses on direct effects of the project and **Section B** on indirect effects that are caused by changes to the environment.

A. Direct Effects									
<p>You may wish to change the components listed under the headings to specify the natural or cultural resources that are priority considerations for your PCA site or for the specific project being reviewed.</p>		Valued components potentially directly affected by the proposed project							
		Natural Resources					Cultural Resources		
		Air	Soil & landforms	Water (surface, ground, crossings, etc.)	Flora (specify, including SAR)	Fauna (specify, including SAR)	Archaeological Resources	Landscape Features	
Phase	Examples of Associated Activities								
Project Components	Preparation / Construction / Operation / Decommissioning	Supply and storage of materials	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>
		Clearing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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"/>
		Disposal of waste	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Blasting/ Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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"/>
		Drainage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Grading	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Backfilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Use of machinery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Transport of materials/ equipment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

