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**Washroom Buildings Recapitalization  
Buildings 32, 34 & 38  
Newman Sound Campground  
Terra Nova National Park, NL  
Proj. No.: R.079272.001**

**Issued April 4, 2016**

**Appendix A**

**Page 1 of 1**

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**Appendix “A”  
Basic Impact Analysis**



# **Basic Impact Analysis (BIA)**

Newman Sound Campground Washroom Buildings  
Recapitalization

Terra Nova National Park

February 5<sup>th</sup>, 2015



Parks  
Canada

Parcs  
Canada

Canada

**1. PROJECT TITLE**

Newman Sound Campground Washroom Buildings Recapitalization

**2. PROJECT LOCATION**

Terra Nova National Park

**3. PROJECT SITE(S)**

Newman Sound Campground

- Washroom Facility, Building #32 – near site #390 (presently called 'Y' Loop)
- Washroom Facility, Building #34 – near site #377 (presently called 'X' Loop)
- Washroom Facility, Building #38 – near site #316 (presently called 'T' Loop)

**4. PROPONENT**

Parks Canada

**5. PROPONENT CONTACT INFORMATION**

Kevin Robinson, A/Asset Operations Manager, Tel: 709-533-3182 email: [kevin.robinson@pc.gc.ca](mailto:kevin.robinson@pc.gc.ca)

Gonzo Wells, Technical Services Officer, Tel: 709-533-3136 email: [gonzo.wells@pc.gc.ca](mailto:gonzo.wells@pc.gc.ca)

**6. PROJECT DATES**

Planned commencement: 2015-09-14

Planned completion: 2016-06-19

**7. INTERNAL PROJECT FILE #**

TN-2015-03

**8. PROJECT DESCRIPTION**

This project includes the recapitalization of 3 existing washroom/shower facilities within Newman Sound Campground. This project will modernize the facilities and make them more sustainable and more responsive to visitor needs. Among other things this will include recapitalizing the buildings interior layout, installing new toilet and shower facilities, improving energy efficiencies and upgrading the building's exterior siding so as to ensure a compatible siding/color motif representative of the entire campground area. Previous work was completed on washroom facilities within the campground (2009 and 2010), however not all of the facilities were completed with the upgrades. Three structures remain for recapitalization, one of which has had all the interior components removed (presently closed to use). This project would see those three remaining washroom facilities redesigned and refitted with amenities that are in line with all the other recently completed washroom facilities in the campground.

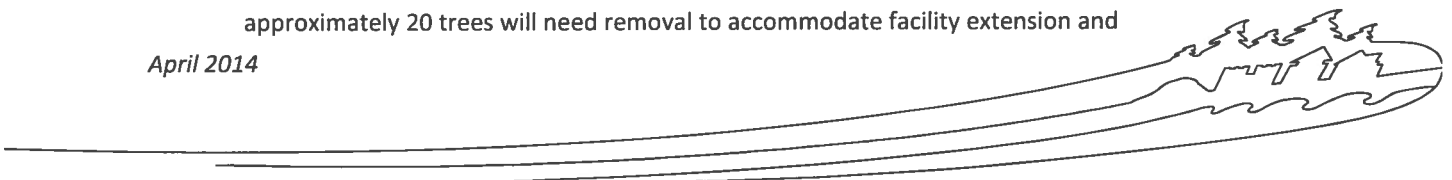
A design is in place for this planned work, but requires updating, and is scheduled for completion for March 31, 2015. Building extension will be approximately 4.5 X 8.5 meters (building #38 only). Building #'s 32 and 34 do not require an extension.

The intent would be to have these three structures undergo a complete revitalization with the inclusion of shower facilities, low volume plumbing fixtures, layout changes for handicap accessibility, installation of new outdoor siding, etc.

**Phases / Activities:**

- Brushing and clearing of shrubs on existing disturbed sites is required for building #38 only and approximately 20 trees will need removal to accommodate facility extension and

April 2014





allow equipment (e.g. backhoe) to access site. Although extension will be approximately 4.5 X 8.5 meters it will require vegetation to be cleared back up to a maximum of 5 meters from each building (dependent on vegetation types and approved by the EPO(s).

- Excavation and removal of soil to prepare construction site
- Construction of building extension, including activities such as concrete framework, foundation pouring, framing, roofing, plumbing, electrical, interior finishing, etc.
- Backfilled to concrete walls with site rehabilitation as required i.e. (landscaping, revegetation of disturbed area, erosion control).
- All three washroom facilities are located at Newman Sound Campground – Terra Nova National Park, one of which is located at Loop 'T', another at Loop 'X' and the third at Loop 'Y'.
- The design work should be completed prior to the end of June, 2015, then tendered to outside contractors, with actual work on the washroom facilities to take place immediately after Labour Day (September 2015) when visitation number are down and completed by the spring of 2016 prior to reopening. This will allow for all construction work to occur over the fall months and spring months, with little or no impact on visitors.

#### 9. VALUED COMPONENTS LIKELY TO BE AFFECTED

As outlined in Appendix 1: Effects Identification Matrix.

#### 10. EFFECTS ANALYSIS

As outlined in Appendix 1: Effects Identification Matrix.

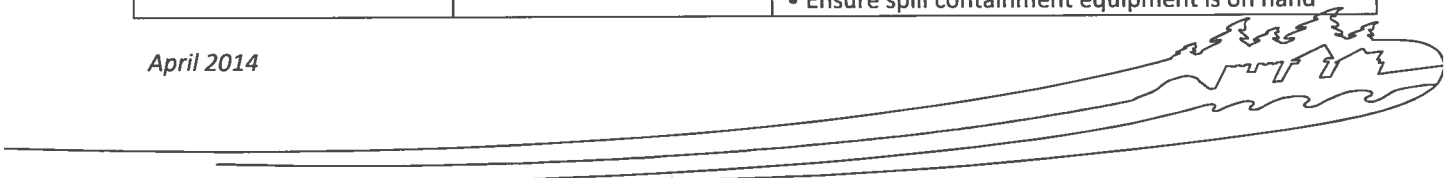
#### 11. MITIGATION MEASURES

**Table 1: Environmental Impacts and Mitigation Measures for Upgrades to Newman Sound Campground Washroom Facilities.**

Environmental Component	Description of Effect	Mitigation
N/A	N/A	<i>General:</i> <ul style="list-style-type: none"><li>• The contractor is not to limit his/her environmental responsibilities to this screening report and will be responsible to adhere to Provincial, Federal and Municipal regulations.</li><li>• The mitigation measures presented in this screening report are subject to additions or alterations prior to and during project implementation.</li><li>• The contractor will be responsible for the activities of any sub-contractors employed by him/her and their compliance to these mitigation measures.</li><li>• All work is restricted to within the established construction perimeter unless otherwise approved by the Parks Canada Environmental Protection Officer (EPO).</li><li>• The EPO is to have access granted at all times to anywhere on the construction site.</li></ul>
Air Quality and Noise	Decreased ambient air quality	<ul style="list-style-type: none"><li>• Unnecessary idling of equipment, including trucks will not be permitted.</li><li>• Stabilize soil and other material storage piles</li></ul>

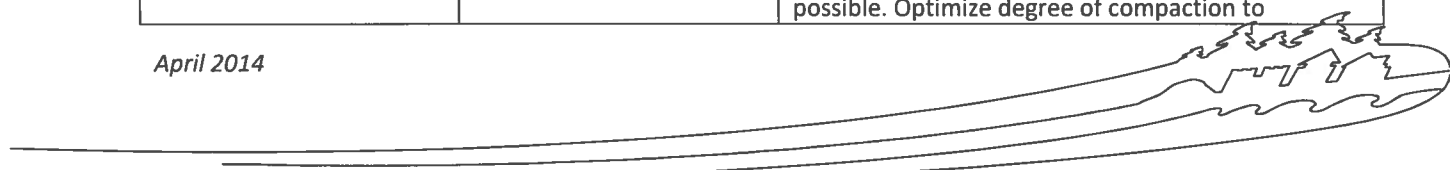


		<p>against wind erosion.</p> <ul style="list-style-type: none"><li>• Cover and contain fine particulate materials during transportation to and from the site and during storage.</li><li>• Minimize vehicle traffic on exposed soils.</li><li>• Identify energy and water conservation opportunities for building design (low flow fixtures, low energy heating and lighting) and outdoor lighting protocol compliant with Dark-sky Preserves (DSP's).</li></ul>
	Increased ambient noise levels	<ul style="list-style-type: none"><li>• Confine "noise" activities to daylight hours</li></ul>
<b>Soils and Topography</b>	Soil compaction and rutting	<ul style="list-style-type: none"><li>• Use existing roadways or disturbed areas to access and travel within the site.</li><li>• In sensitive areas, use equipment of low bearing weight, low PSI tires or tracked vehicles.</li><li>• Store construction materials in one area of the site.</li><li>• Flag clearly to reduce the area of disturbance and limit soil compaction.</li></ul>
	Changes in slopes, landforms and landscape diversity	<ul style="list-style-type: none"><li>• Assess slope stability (based on slope length, soil texture, steepness, soil depth). Adjust activities to avoid these areas if possible (particularly where slopes are 15 degrees or greater and where soils are shallow and likely to move with disturbance).</li><li>• Hand clear on steep slopes that do not require grading. Wait to clear steep slopes until immediately before scheduled construction and reclaim immediately afterwards.</li><li>• Use appropriate geo-technical control measures to stabilize slopes.</li></ul>
	Loss of topsoil, topsoil and subsoil mixing, soil erosion, slope instability	<ul style="list-style-type: none"><li>• Avoid equipment operation on steep or unstable slopes.</li><li>• If a prolonged period of exposure is expected, protect exposed soils with temporary cover (e.g. mulch, gravel, erosion blanket, vegetative cover).</li><li>• Halt activity on exposed soils during periods of high rainfall and runoff and implement control measures as required (e.g. tarps, erosion blankets, silt fencing).</li><li>• Topsoil should be replaced in the order it was removed.</li><li>• Minimize the amount of time that excavations and trenches remain open.</li></ul>
	Soil contamination – leaks, accidental spills or historic use	<ul style="list-style-type: none"><li>• Ensure machinery is in good working order and free of leaks.</li><li>• Identify and handle all toxic/hazardous materials as required under the <i>Canadian Environmental Protection Act, Transportation of Dangerous Goods Act</i> and Workplace Hazardous Materials Information Service.</li><li>• Prepare an appropriate Spill Response Plan</li><li>• Ensure spill containment equipment is on hand</li></ul>



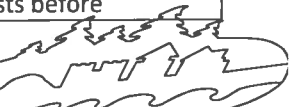


		<p>and personnel are trained in its use.</p> <ul style="list-style-type: none"><li>• Store fuel and hazardous materials in a berm or secondary containment designed to contain 110% of the product's volume. Ensure other materials are stored appropriately to prevent spills.</li><li>• Designate refuelling areas on hardened surfaces at least 100 m away from water bodies.</li><li>• Report all spills to Resource Conservation - TNNP at (709) 533-2801 or Jasper Dispatch at (877) 852-3100</li><li>• Clean up all spills immediately, as per the Spill Response Plan. If contamination is found, cease work and inform the Site Supervisor or Environmental Protection Officer.</li><li>• Dispose of contaminated soil at provincially certified disposal sites outside of the field unit.</li><li>• Documentation confirming proper disposal must be provided to Parks Canada.</li><li>• When building demolition is required, a check for hazardous materials is required by trained personnel (<i>e.g.</i> asbestos, PCBs, <i>etc.</i>).</li></ul>
	Ground subsidence or heaving from soil thaw or poor excavation or backfilling.	<ul style="list-style-type: none"><li>• Ensure backfilling is undertaken using suitable materials free of ice and frozen soils and that adequate soil compaction is conducted to avoid ground subsidence.</li><li>• Backfilling should be allowed to settle to prevent subsidence.</li><li>• Provide additional backfill where subsidence has occurred.</li></ul>
<b>Hydrological and Aquatic Resources</b>	Adverse modifications to surface drainage patterns; stormwater runoff volumes and rate of runoff; stream or shoreline morphology; water flow volumes, levels and rates	<ul style="list-style-type: none"><li>• Locate staging areas away from drainage features.</li><li>• Fueling of equipment will take place 100m away from any watercourse.</li><li>• Absorbent material will be available on-site</li><li>• Fuel spills will be reported to Resource Conservation – TNNP (709) 533-2801 or Jasper Dispatch at (877) 852-3100.</li><li>• Contaminated material to be disposed of in an approved manner.</li><li>• Minimize changes to the ground surface that affect infiltration and runoff.</li></ul>
	Reduced water quality and clarity due to increased erosion, sedimentation, transport of debris, point or non-point sources of pollution	<ul style="list-style-type: none"><li>• Halt activity on exposed soil during events of high rainfall and runoff.</li><li>• Designate refuelling areas on hardened surfaces at least 100 m away from watercourses or wet areas (Spill response materials must be onsite).</li><li>• Ensure cleared vegetation does not enter watercourses.</li><li>• Do not place or allow to disperse any rock, silt, cement, grout, asphalt, petroleum product, lumber, vegetation, domestic waste, or any deleterious substance into any waterbody, stormwater system or sanitary sewer.</li><li>• Backfill and compact excavations as soon as possible. Optimize degree of compaction to</li></ul>





		<p>minimize erosion and allow for revegetation.</p> <ul style="list-style-type: none"><li>• Do not use herbicides in areas where residue/runoff may enter a waterbody or drainage pathway.</li></ul>
<b>Vegetation</b>	Damage to and/or removal of vegetation	<ul style="list-style-type: none"><li>• Operate machines carefully to avoid damaging surrounding vegetation.</li><li>• Ensure excavated material does not damage or bury plant material that is to be retained on the site or in adjacent areas. Store excavated soils and construction materials in a well-defined area. Use tarps and/or fences to limit damage to vegetation.</li><li>• Identify and avoid areas with rare plants or valued vegetation features.</li><li>• Minimize the area of vegetation removal. Clearly mark the area to be cleared with flagging tape and/or temporary fencing.</li><li>• Trees will be felled toward existing cleared/hardened areas as much as possible.</li><li>• Vegetative material to be removed from site and disposed of in a proper manner with merchantable trees processed as firewood.</li><li>• Only native tree species will be used in all planting activities</li><li>• All stems (brush and trees) shall be cut flush at ground level</li><li>• Excavations from stump removal will be backfilled and landscaped</li><li>• When trimming branches, at least 4cm of the branch node should remain on the tree to prevent damage to bark and the onset of disease.</li></ul>
	Introduction of non-native invasive plant species	<ul style="list-style-type: none"><li>• Equipment should be pressure washed <b>before</b> arriving at the work site.</li><li>• All soils sourced from outside Terra Nova National Park must be clean and free from seeds, use certified weed free topsoil (e.g. High Point Peat).</li><li>• Revegetate at the first opportunity.</li></ul>
<b>Wildlife</b>	Loss of habitat (food and cover)	<ul style="list-style-type: none"><li>• Maintain forest structural attributes such as wildlife trees, coarse woody debris, rock outcrops, and boulder fields/talus.</li><li>• Minimize disturbance to understory plants and soil (clear only minimum area required).</li></ul>
	Damage to nests and/or disruption of nesting birds, disruption of denning animals or breeding bats	<ul style="list-style-type: none"><li>• Consult with Resource Conservation - TNNP to discuss any localized wildlife concerns.</li><li>• Conduct any clearing outside of the bat breeding and/or nesting season for migratory and resident birds known to breed in the area. Owls and corvids may begin nesting from February onwards. Songbirds generally nest from May until mid-July. Some migratory raptors (e.g. osprey) rear their young well into August. The little brown myotis is typically active from May through September.</li><li>• If clearing takes place during the breeding and nesting season, sweep for bird nests before</li></ul>





		<p>commencing work. Young birds must be allowed to fledge before nests are disturbed.</p> <ul style="list-style-type: none"> <li>• Check the area for dens and bats before commencing work. Active dens and breeding bats (nursery colonies) must not be disturbed.</li> <li>• If any active dens, nests or bats are located, contact Resource Conservation – TNNP at (709) 533-2801.</li> </ul>
	Wildlife habituation/attraction to artificial food sources	<ul style="list-style-type: none"> <li>• Keep site free of garbage and dispose of garbage in wildlife proof containers or remove daily from the site.</li> <li>• Educate workers that wildlife harassment or feeding is not permitted.</li> <li>• Communicate potential problem and/or habituated wildlife to Resource Conservation – TNNP at (709) 533-2801.</li> <li>• Store hazardous chemicals (<i>e.g.</i> antifreeze) that might be attractants in animal proof containers.</li> </ul>
	Disruption to park visitors, residents and businesses due to increased noise and traffic, and changes in aesthetics	<ul style="list-style-type: none"> <li>• Retain and limit damage to vegetation where possible, especially trees and shrubbery.</li> <li>• All stumps are to be cut flush to the ground where possible.</li> <li>• All waste should be disposed of at the local Waste Management facility, sorted to promote reuse/recycling of materials.</li> <li>• Complete thorough clean up of the site, including removal of general litter, survey stakes, flagging tape etc. at project completion.</li> <li>• Use appropriate signage for closed facilities (trails, picnic areas, etc.) and identify detours/alternatives.</li> <li>• Develop a communications plan as needed to keep stakeholders, general public and visitors informed of the project.</li> </ul>
<b>Cultural Heritage</b>	Loss or disruption of heritage, archaeological and paleontological features	<ul style="list-style-type: none"> <li>• Consult with the TNNP Cultural Resource Specialist to determine archaeological potential at the site. If the potential to disturb archaeological resources exists, ground disturbance activities should be adapted to avoid these areas if possible.</li> <li>• If any artefacts are uncovered, stop work until the TNNP Cultural Resource Specialist or the Environmental Protection Officer is consulted.</li> <li>• All buildings over 40 years old, including picnic shelters, must be reviewed by FHBRO prior to disposal or renovation. (<a href="http://www.pc.gc.ca/progs/beefp-fhbro/index.aspx">http://www.pc.gc.ca/progs/beefp-fhbro/index.aspx</a>)</li> <li>• The design of additions or alterations to a building must respect its heritage character.</li> </ul>
<b>Socio-Economic Conditions Human Health</b>	Injuries to public and workers arising from a change in the environment and/or	<ul style="list-style-type: none"> <li>• All trenches or ditches left unattended overnight must be fenced or barricaded.</li> <li>• All road signage must be in accordance with provincial standards.</li> <li>• Notify utility companies to identify buried</li> </ul>





	improper handling of hazardous materials	resources/lines. • All workers on-site must wear the proper personal protective equipment (PPE) for their assigned tasks and be trained in its proper use. • First Aid kits must be available on all job sites.
	Disruption to park visitors, residents and businesses due to increased noise and traffic, changes in air, water quality and aesthetics	<ul style="list-style-type: none"> <li>• Evaluate site layout, access routes and construction activities to minimize their visual impact.</li> <li>• Limit noise producing activities to daylight hours.</li> <li>• Outline traffic control measures and assess the need for flagging personnel.</li> <li>• Time construction activities to minimize vehicle conflicts.</li> <li>• Heavy equipment operated (e.g. excavator) on paved surfaces should be equipped with street pads or some kind of barrier to protect pavement.</li> <li>• Store materials within the confines of the work site.</li> <li>• Develop and implement a communications plan to keep all stakeholders, general public and visitors informed of the project.</li> </ul>

## 12. CONSIDERATION OF THE NEED FOR PUBLIC PARTICIPATION & ABORIGINAL CONSULTATION

12 a) Indicate whether opportunity for public participation should be offered:

☒ \_X\_ No ☐ \_\_\_ Yes

12 b) Indicate whether there is a requirement for Aboriginal Consultation in relation to project impacts:

☒ \_X\_ No ☐ \_\_\_ Yes

## 13. EFFECT SIGNIFICANCE

No significant impacts expected.

## 14. SURVEILLANCE

Surveillance required - Daily site inspection by designated EPO to ensure mitigations are being followed

## 15. SPECIES AT RISK MONITORING

Describe how any potential adverse effects on a listed species at risk (including effects to individuals, the residences of the individuals or the critical habitat of the species) will be monitored. Monitoring methods must be compatible with the recovery strategy or action plan for the species.

## 16. SARA NOTIFICATION

SARA Authorization not required. See Appendix 2: SARA-Compliant Authorization Tool

## 17. Compatibility with Management Plan

Newman Sound campground is located in a zone 4 area. Zone 4 areas are those areas capable of accommodating a broad range of opportunities for understanding, appreciation and enjoyment of the park's heritage values and related services and facilities in ways that impact the ecological integrity of the park to the

April 2014





smallest extent possible. A goal for Visitor Experience, as outlined in the Management Plan for TNNP is to ensure that visitor experiences in TNNP are diverse, compelling and support the integrated approach to fulfilling the Parks Canada mandate. Management Actions for this goal are to continue to support a variety of camping experiences in the park throughout the year, including semi-serviced, non-serviced, primitive and group camping and situate any new visitor experience opportunities, or new amenities or facilities in accordance with the park zoning plan.

#### 18. DECISION


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

  X   not likely to cause significant adverse environmental effects.


       likely to cause significant adverse environmental effects.

#### 19. SIGNATURES AND APPROVAL


##### EA Author

Name: Mervin Langdon	Date: YYYY-MM-DD 2015-02-09
Position: Resource Management Officer I	
Signature: 	

##### Decision Approval

Name: Janet Feltham	Date: YYYY-MM-DD 2015-02-11
Position: (A/Ecologist Team Leader)	
Signature: 	

##### Decision Approval

Name: Karen Wolfrey	Date: YYYY-MM-DD 2015-02-16
Position: (Field Unit Superintendent, or Designate) FUS Designate	
Signature: 	

#### 20. REFERENCE LIST

- a) BIA – Malady Head Campground Washroom Buildings Recapitalization (TN-2015-02)
- b) Model Class Screening for Routine Projects at Front Country Facilities in Jasper NP pp.121

#### 21. ATTACHMENTS LIST

- Figure 1: Newman Sound Building Map
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- 
- Figure 2: Extension plans for building #38 - Newman Sound Campground

April 2014





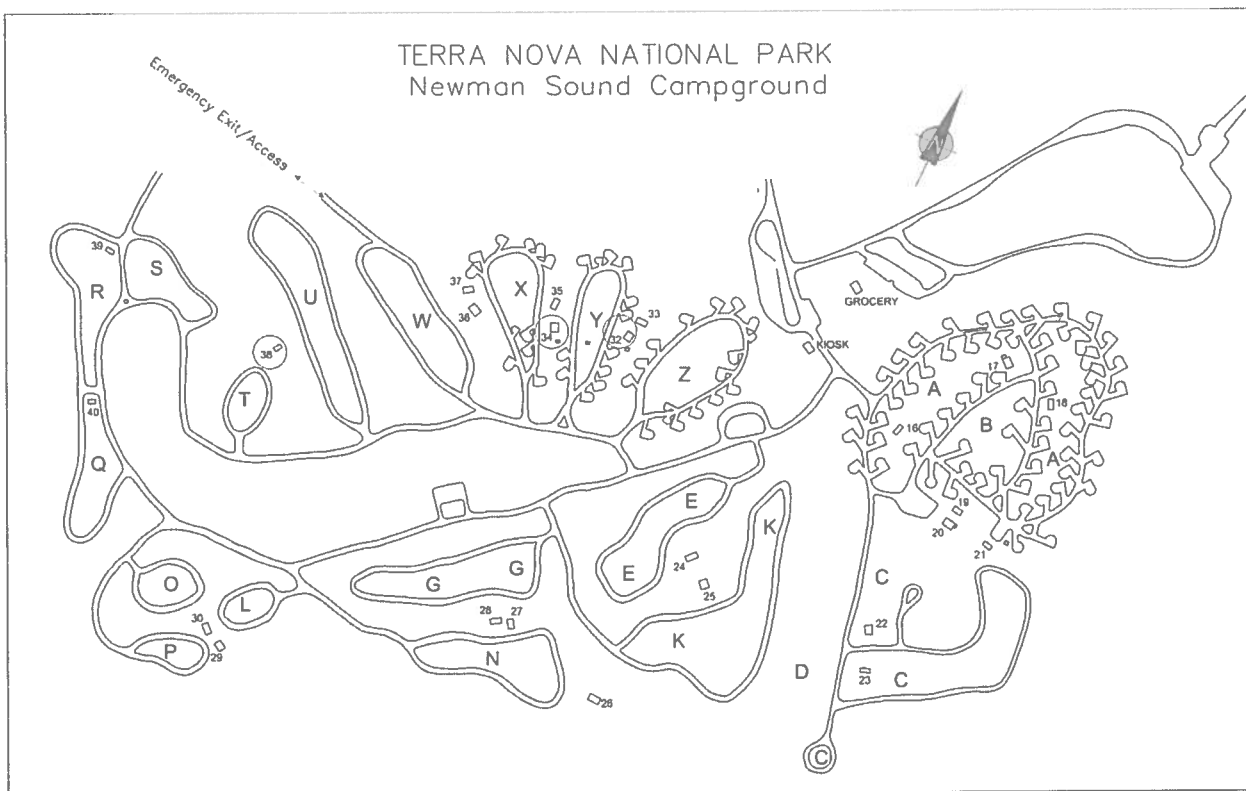
- Figure 3: Building plans for washroom facilities #'s 32 and 34 - Newman Sound Campground

## 22. ADDITIONAL CONSIDERATIONS / COMMENTS

Site pictures available at the following location:

G:\Conservation\Working Databases\anthropogenic\Environmental Assessments\EIA 2015\TN-2015-03

Figure 1: Newman Sound Building Map – building #'s 32, 34 and 38 circled in pink





*Figure 2: Extension plans for building #38 - Newman Sound Campground*

April 2014



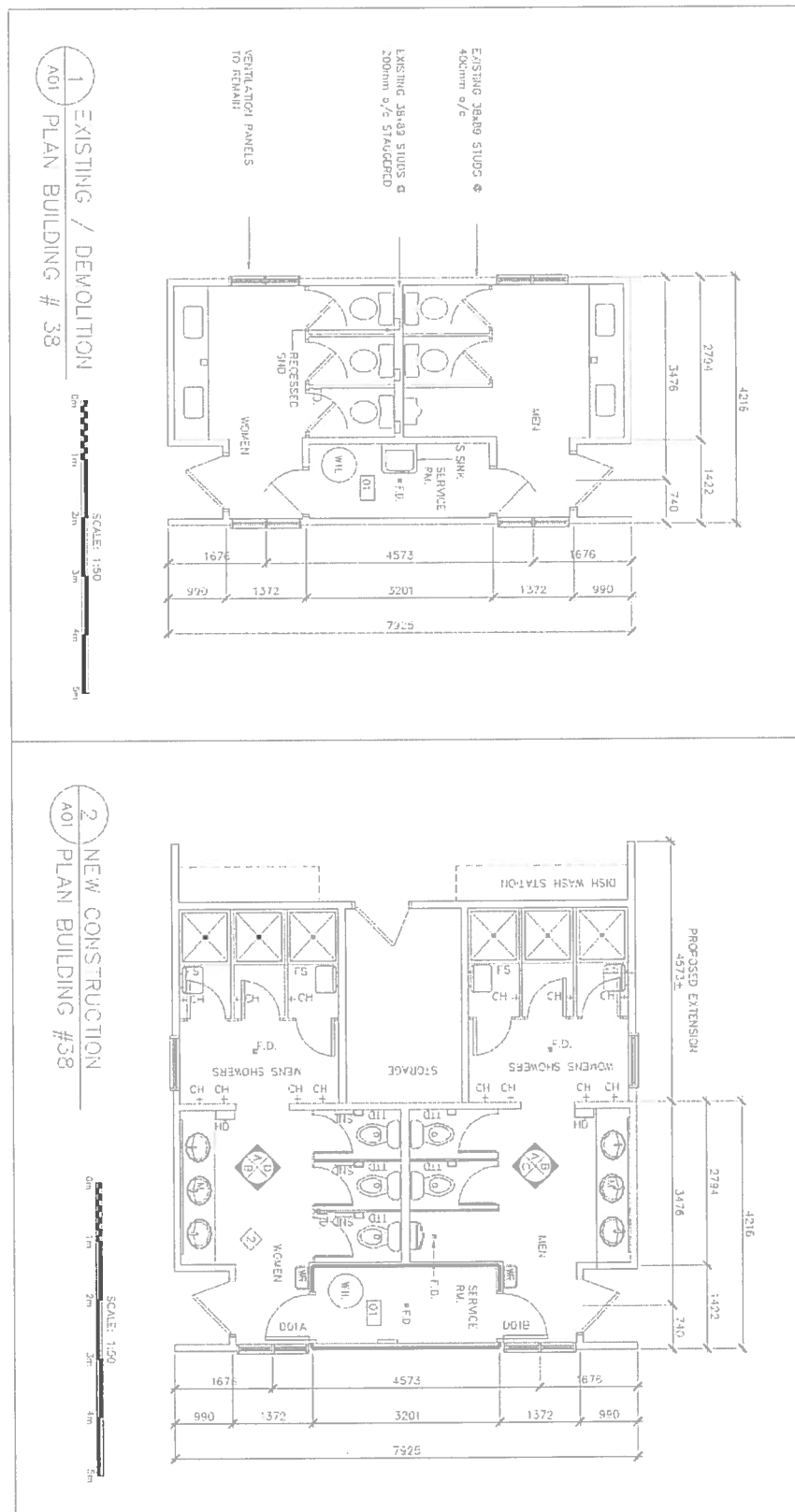
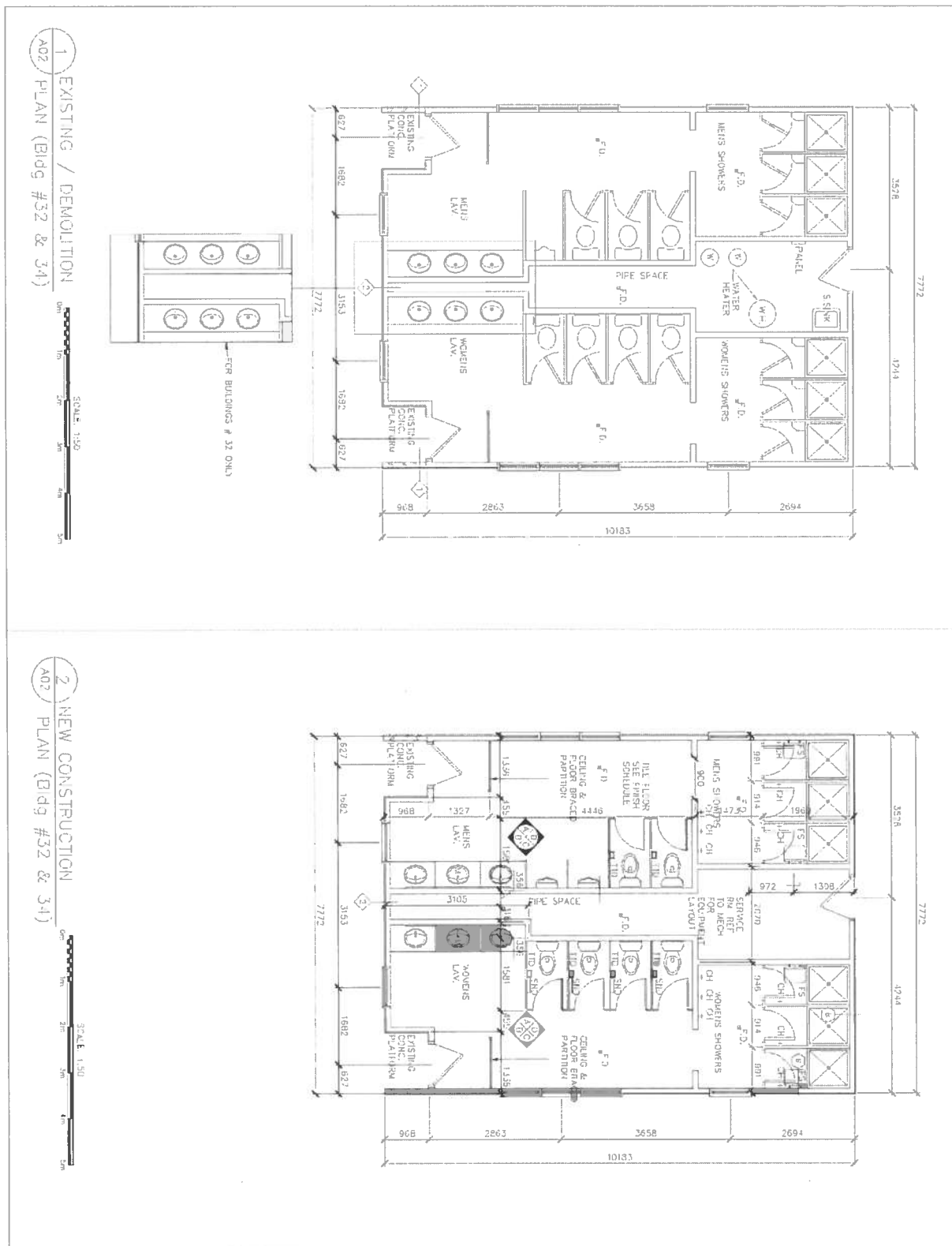


Figure 3: Building plans for washroom facilities #'s 32 and 34 - Newman Sound Campground





### 23. TRACKING SYSTEM

The project must be registered in the Parks Canada Interim Tracking System within the fiscal year the project took place. If the project is on hold, was cancelled, or was determined to be likely to cause significant adverse effects and did not go ahead, please indicate this information in the tracking system (see selections in the *Assessment Status/Decision* field).

April 2014





## Appendix 1 Environmental Impact Analysis Tools: Effects Identification Matrix

Use the matrix to identify potential impacts. You may wish to change the components listed under the headings to specify the natural or cultural resource or visitor experience objectives that are priority considerations for your PCA site or for the specific project being reviewed.

**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 (during preparation/construction phases)														
			Components potentially directly affected by the proposed project											
			Natural Resources					Cultural Resources		Visitor Experience				
			Air	Soil & landforms	Water (surface, ground, crossings, etc.)	Flora	Fauna	Insert heritage values	Insert heritage values	Visitor appreciation, access & services	Recreational/Accomm.	Viewscapes and soundscapes	Public/Visitor Safety	Essence of place
Phase	Examples of Associated Activities													
Project Components	Preparation / construction	Supply and storage of materials	<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 checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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"/>	<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"/>	<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 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Grading	<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"/>
		Backfilling	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>
		Use of machinery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Transport of materials/ equipment	<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"/>
		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"/>

SAR- species at risk







A. Direct effects continued (during operation/implementation/decommissioning phases)														
<p><i>You may wish to change the components listed under the headings to specify the natural or cultural resource or visitor experience objectives that are priority considerations for your PCA site or for the specific project being reviewed.</i></p>		Components potentially affected by the proposed project												
		Natural Resources					Cultural Resources		Visitor Experience					
		Air	Soil & landforms	Water (surface, ground, crossings, etc.)	Flora	Fauna	Insert heritage values for your site	Insert heritage values for your site	Visitor appreciation access & services	Recreational & Accom. opportunities	Viewscapes and soundscapes	Public/Visitor Safety	Essence of place	
Phase	Examples of Associated Activities													
Project Components	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 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"/>
		Maintenance	<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 checked="" 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"/>	
		Use/Removal 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"/>	
		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"/>	
		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"/>	
		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"/>	
		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"/>	
		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"/>	
		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 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"/>	

Section B- next page





**Section B** of the matrix should be used to identify potential indirect effects that may result from impacts on components of the environment you have identified on the preceding pages (see Section A - direct effects to natural resources). This is required under CEAA 2012 Sections 5(1)(c) and 5(2)(b).

For example:

- if the proposed project could lead to adverse effects to water quality and quantity, could this then effect the quantity and quality of water resources (e.g. potable water) used by an Aboriginal community?
- could there also be adverse socio-economic effects to a community that relies on recreational fishing tourism?

B. Indirect Effects (all phases)				
<p>You may wish to change the components listed under the headings to specify the natural or resources that are priority considerations for your PCA site or for the specific project being reviewed.</p>		Impacts as a result of changes to the environment		
		With respect to non-Aboriginal peoples:	With respect to Aboriginal peoples:	
		Health and socio-economic conditions	Health & socio-economic conditions	Current use of lands and resources for traditional purposes
Phase	Natural resource components affected by the project			
All phases: Preparation /construction operation/implementation/decommissioning	Could impacts to <u>air</u> lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>soils and landforms</u> lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>water</u> (e.g. surface, ground water and water crossings) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>flora</u> (including SAR) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Could impacts to <u>fauna</u> (including SAR) lead to adverse effects on...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





## Appendix 2: SARA-Compliant Authorization Decision Tool

(Note: Please consult a representative of the Species Conservation and Management team when completing this form)

Date this document was completed:	Where this activity will occur: (i.e., PCA site)	SAR implicated by this activity:	Title of proposed activity (e.g., Trail development in Blue Meadow):	Author of this Document:	*Collaborators involved in drafting this document:
*Identify at the outset who might have to be involved in this document from a cross-functional collaboration/review perspective.					

### Part A – Is a SARA authorization required?

#### 1. Will the activity affect a listed endangered (En), threatened (Th) or extirpated (Ex) species at risk, its residence or critical habitat?

Affect = kill, harm, harass, capture, or take individuals; possess, collect, buy, sell or trade individuals or parts of individuals; damage or destroy residence; destroy any part of critical habitat, or carry out an activity that is prohibited under a protection order. Note that indirect and direct effects of the activity on the species, residence, critical habitat, etc. must be considered.

☒ **No** The activity will not affect a listed species (En, Th, or Ex), its residence, or its critical habitat AND the activity is not prohibited in a protection order. A SARA authorization is NOT required.

- Although the facility extensions will have small increase to the ecological footprint, majority of construction will occur on previously disturbed land that presently receives significant visitation.

Describe the activity and explain why there is no expected effect, including an explanation of mitigation measures taken to prevent potential effects on species at risk, their residence or their critical habitat.  
If an impact assessment is being conducted, refer to the mitigations in the impact assessment.

☐ **Yes** The activity will affect a listed species (En, Th, or Ex), its residence, or its critical habitat OR the activity is prohibited in a protection order.

- If you checked YES, use this box to describe the activity and its effects on the species and continue to **Question 2**.

Note – if you are contemplating an activity that may destroy critical habitat or is an activity prohibited in a protection order, it must be discussed with VPs and the CEO. If possible, find alternatives and mitigation measures to prevent destruction of critical habitat or non-compliance with an order prohibition (i.e., to avoid an effect on the critical habitat/prohibited activity and the requirement for an authorization).

#### 2. Is the activity already authorized in a final recovery document or required for public safety, health, or national security AND authorized by or under another Act of Parliament?

☐ **Yes** SARA authorization is NOT required.

- If you checked YES, use this box to explain why the activity is exempt and STOP – you have completed the Tool.

- Explain why the activity is needed for public safety, health or national security and make a reference to the Act of Parliament under which the activity is authorized.

OR

- If the activity is authorized in a final recovery document, refer to the published recovery and explain why the activity is exempt under section 83 of SARA).

Note - An activity that is exempt for public safety, health, or national security should be an activity that is imperative or an emergency-type situation pertaining to health and safety of the general public, and cannot be delayed for the normal SARA



	permitting process (e.g., wildfire control measures).
<input type="checkbox"/> No	<b>SARA authorization is required.</b> <ul style="list-style-type: none"><li>If you checked NO, continue to <b>Part B</b>.</li></ul>

### Part B – Can a SARA authorization be issued?

**\*\*\*\*Complete ONLY if you have answered NO to Question 2, above\*\*\*\***

#### 3. Does the activity fall into one of the following three categories?

Check the appropriate box and continue to Question 4. An authorization can only be issued if it fits into one of the categories below (SARA s. 73[1]). If the proposed activity DOES NOT fit in any of the three categories below the activity CANNOT be authorized and you should continue to **Part E**.

- ☐ The activity is scientific research related to the conservation of the species and conducted by qualified persons; OR
- ☐ The activity benefits the species or is required to enhance its chance of survival in the wild ; OR
- ☐ Affecting the species is incidental\* to the activity (i.e., the purpose of the activity is not to engage in an activity that is prohibited under SARA e.g., kill, harm, harass ... an individual, destroy critical habitat, contravene a prohibition in an Emergency Protection Order, etc.).

\*Affecting the species is incidental - For example, fishing for a listed species cannot be permitted, but accidental by-catch may be. Additionally, harm to a listed plant species cannot be permitted, but repairs to a bridge that incidentally disturb the plant may be.

#### 4. If you concluded that the activity can be authorized, have alternatives that would reduce the impact(s) on the species been considered?

- ☐ No      The activity CANNOT be authorized as alternatives have not been/cannot be considered.
- If you checked this box, continue to **Part E**.

- ☐ Yes      The activity MAY be authorized.
- If you checked YES, use this box to explain the considered alternatives and continue to Question 5.

Identify all reasonable alternatives that were considered to reduce the impact on the species (including alternatives to the project and alternative means of carrying out the project, including a "no action" alternative). The explanation must demonstrate that the best solution has been adopted.

#### 5. Will all feasible measures be taken to minimize the impact of the activity?

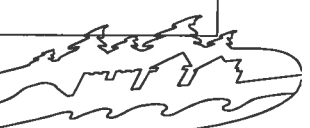
- ☐ No      The activity CANNOT be authorized.
- If you checked NO, continue to **Part E**.
- ☐ Yes      The activity MAY be authorized.
- If you checked YES, use this box to identify the feasible measures that will be taken to avoid or lessen potential impacts of the project on the species and continue to Question 6.

- Measures and conclusion must be consistent with exiting recovery documents, COSEWIC assessment reports, etc.  
- Note: If this authorization is considered as part of an impact assessment, the information provided should be consistent with the mitigation section of the impact assessment.

#### 6. Will the activity jeopardize the survival or recovery of the species?

If an activity will not jeopardize the survival or recovery of the species, you should provide a sound rationale to demonstrate that the possible effect on recovery is minor and temporary AND that the species is capable of safely incurring such effects to its recovery.

- ☐ Yes      The activity CANNOT be authorized.
- If you checked YES, continue to **Part E**.





<input type="checkbox"/> <b>No</b>	<p><b>The activity MAY be authorized.</b></p> <ul style="list-style-type: none"><li>If you checked NO, <u>use this box</u> to explain why the activity will not jeopardize survival or recovery,, based on best available information, then continue to <b>Part C</b>.</li></ul> <p>• Indicate whether the project will increase mortality, decrease fertility/recruitment, affect a key life stage/cycle. • Indicate whether the project will increase an existing threat to the point where survival/recovery might be jeopardized. • Make reference to known effects of similar activities based on existing literature. Discuss other factors relevant to assessing jeopardy for the species and site (e.g., likelihood of a negative impact on the population, species' sensitivity to the impact, potential cumulative effects from other impacts).</p>
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### Part C - How will the SARA authorization be issued?

#### 7. Under which process will the authorization be issued? Will the impact assessment (EIA) process or Research and Collection Permit System (RCPS) be used to issue the authorization?

<input type="checkbox"/> <b>SARA permit (s.73)</b>	<ul style="list-style-type: none"><li>If you checked this box, ensure that it is appropriate to use s. 73*, that a SARA authorization is issued (see <u>template on intranet</u>) and that an explanation is posted on the SAR Public Registry (using the information provided above – see <u>template on intranet</u>).</li></ul> <p><small>*Note that PCA does not typically issue s. 73 permits. To do so, please contact a representative from the Species Conservation and Management team.</small></p>
<input type="checkbox"/> <b>An existing PCA process (and SARA s.74)</b>	<ul style="list-style-type: none"><li>If you checked this box, <u>use this box</u> to indicate whether the PCA EIA process or the PCA Research and Collection Permits System will be used to issue the authorization. Ensure that a SARA authorization is issued (see <u>template on intranet</u>) and that an explanation is posted on the SAR Public Registry (using the information provided above – see <u>template on intranet</u>).</li></ul>

### Part D – How will the authorized activity impact ER, VE, and Agency priorities?

#### 8. Will the activity impact ER or VE programs or Agency priorities?

If so, we will work with colleagues to creatively address any potential loss of programming or opportunities.

<input type="checkbox"/> <b>The authorized activity will not impact ER or VE programs or Agency priorities</b>	<ul style="list-style-type: none"><li>If you checked this box, <u>use this box</u> to describe why the activity does not have an impact on ER or VE.</li></ul> <p>Indicate if this decision was made with the support of ER or VE staff, and if so, whom.</p>
<input type="checkbox"/> <b>The authorized activity will impact ER or VE programs or Agency priorities</b>	<ul style="list-style-type: none"><li>If you checked this box, <u>use this box</u> to describe the impact that the activity will have on ER or VE.</li></ul> <p>Indicate how this decision was made and who was involved. Identify next steps to creatively address potential loss of ER or VE programming or opportunities</p>

### Part E – Summary of Decisions

#### 9. Does the activity require a SARA authorization and can a SARA authorization be issued?

Indicate selection.

<input type="checkbox"/>	This activity does not require a SARA authorization. Refer to Questions 1 and 2 for explanation.
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<input type="checkbox"/>	This activity requires a SARA authorization but WILL NOT be authorized because it does not fit into one of the three required categories (see response to Question 3) OR it does not meet one of the SARA pre-conditions (see responses to Questions 4-6).
<input type="checkbox"/>	This activity meets the SARA authorization requirements.

Part F – Signatures and Approval		
Author (Add additional signature blocks for multiple authors as required)		
Name:	Mervin Langdon	
Position:	Resource Management Officer	Date: YYYY-MM-DD 2015-02-09
Species Conservation Management Recommendation by		
Name:	Janet Feltham Janet Feltham	
Position:	A/Ecologist Team Leader	Date: YYYY-MM-DD 2015-02-11
Was a legal opinion related to this activity requested?		
Name of Legal Counsel:		Date: YYYY-MM-DD
Summary of opinion/legal risks:		
Decision Approval		
Name:	Karen Wolfrey	
Position (Field Unit Superintendent, or Designate):	FWS Designate -	
Signature:	Karen Wolfrey	Date: YYYY-MM-DD 2015-02-16





### Appendix 3: Cultural Resources Assessment Questionnaire (in development\*\*)

Please consult with or provide this form to a Cultural Resources Management Specialist.

\*\* The National EA Team is working with the Heritage Conservation and Commemoration Directorate to provide a questionnaire that facilitates consideration of potential impacts to cultural resources. In the interim of the questionnaire being finalized, please work with a CRM specialist to ensure you have appropriately integrated information related to potential effects of the project on cultural resources.

