

Parks Canada Basic Impact Analysis Template

Instructions for this form are available (see the [Guidance and Tools section](#) of the Parks Canada Impact Assessment intranet site or request from Parks Canada impact assessment staff).

1. PROPOSED PROJECT DATES

Planned commencement: 2018-09-01

Planned completion: 2018-11-31

2. INTERNAL PROJECT FILE # PANP-001252

3. PROJECT DESCRIPTION

Project consists of a new storm water pumping station, force main and outfall improvements to mitigate winter ice build-up on the main access to the Waskesiu Townsite. Work to include a new below grade wet pit for collection and pumping of storage or water and work required to prepare area around site. Installation of force main to be completed by directional boring with some minor in-lake work at the outfall.

- Site clearing of location for pump house to remove surficial organics and provide working area for construction and laydown. Area of pump house to be approximately 5 m by 5.3 m with area of about 9m x 12m for construction.
 - Installation of new 6 m deep 1.5m diameter steel casing/pile using vibratory equipment to minimize footprint and surface disturbance.
 - Installation of concrete mud slab to serve as floor within wet pit and installed within the casing.
 - Construction of cast-in-place concrete slab for building structure and timber framed building.
 - Installation of new natural gas service (assumed to be 25mm) to proposed building.
 - Trenching of new piping from new catch basin to wet pit.
 - Installation of new natural gas service (assumed to be 25mm) to proposed building.
 - Installation of new high density polyethylene pipe (insulated) within existing storm sewer mains.
 - Directional boring of force main to a new submerged outlet in the lake.
 - Connection of force main and submerged outlet within existing manhole.
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- Bulk of project (storm water pumping station) will be at the south-east corner of Lakeview Drive and Waskesiu Drive near Lost Creek. Some work required near the intersection of Balsam and
 - Lakeview as well as submerged outlet approximately 30 meters west of the main beach breakwater for the submerged outlet.
 - Overall, site is primarily located within previous disturbed areas due to construction of roadways and right of ways. Construction of pump house is in proximity to Lost Creek which is an underground stream which has historically created issues with original construction of the main park access
 - Pump house site is close to the existing recreational facilities (tennis court and lawn bowling)
 - Work includes submerged discharge piping within Waskesiu Lake.

4. VALUED COMPONENTS LIKELY TO BE AFFECTED

Use the Effects Identification Matrix ([Appendix 1](#)), as required, to identify potential interactions between the project and the surrounding environment.

Air

Soil

Water

Flora/Fauna

5. EFFECTS ANALYSIS

Air/Noise Quality

- Temporary decreased ambient air quality
- Increased ambient noise levels

Soil/Land Resources

- Soil contamination from hazardous materials (e.g. construction waste, fuel)
- Soil compaction and rutting
- Soil erosion, loss of topsoil and exposure of subsoils
- Change in landforms and landscape

Water

- Reduced water quality due to transportation of debris and contamination (i.e. from leaks, accidental spills, sedimentation)

Terrestrial Wildlife and Vegetation

- Impeded/altered wildlife movement
- Habitat destruction or alteration
- Introduction of invasive species or expansion of existing populations
- Damage to and removal of vegetation, disturbance of adjacent natural areas, root exposure and physiological stress

Visitor Experience/Visitor Safety

- Reduced quality of visitor experience due to noise, vibration and presence of construction equipment
- Visual impacts and landscape changes
- Reduced accessibility to portions of the site where the work is taking place
- Hazard to visitors and staff due to construction activities

6. MITIGATION MEASURES

Work Site Conditions/Staging/Laydown:

- 1) Key contacts and their respective roles and responsibilities must be identified prior to work starting and communicated to all on-site workers.
- 2) People working on the project/activities must review the mitigation measures and any site specific considerations with designated Parks Canada staff before work begins.
- 3) Clearly mark the work site and restricted areas with stakes, biodegradable flagging tape or other means to minimize the disturbance footprint; remove when the project is completed.
- 4) Staging areas, material/equipment drop sites, and parking areas must be identified, including duration of use, within an existing disturbed footprint (e.g., roadway, gravel surface, previously disturbed area with high resiliency) or approved by designated Parks Canada staff.
- 5) Use existing roadways, trails, disturbed areas or other areas as approved by designated Parks Canada staff for site access, travel within the site and construction activities.
- 6) Wet down dry materials, if appropriate, and cover waste to prevent the wind from blowing dust and debris. Control dust on roads used by the on-site workers.

Equipment Operations:

- 7) Use low pressure or rubber tracked equipment or access matting where feasible to minimize soil compaction and ground disturbance.
- 8) Select equipment appropriate to the nature of work being conducted (e.g., avoid using large scale machinery when hand tools or smaller scale machinery could be used).
- 9) Heavy equipment operating on paved surfaces should be equipped with street pads; damage to paved surfaces must be restored to original conditions.
- 10) Equipment must be properly tuned, clean and free of contaminants, in good operating order, free of leaks (e.g., fuel, oil or grease), and fitted with standard air emission control devices and spark arrestors prior to arrival on site.
- 11) Machinery must be stored, maintained and refueled on a flat surface, outside the drip line¹ of trees and a minimum of 30m from waterbodies, as measured from the High Water Mark.
- 12) Refueling must take place on an impermeable fuel mat with a berm or within a container. Leaks and spills during refueling must be cleaned up and contaminated materials must be disposed of appropriately. Fuel must never be dispelled or deposited into the environment or any water body.
- 13) Any required cleaning of tools and equipment should be done off-site. If it must be on-site, it must be in an appropriate area at least 30m from a water body.
- 14) Gas generators must be secured to prevent movement during operation and set up on an impermeable fuel mat with a berm or within a container that can contain 110% of the volume of fuel in the generator.

Site Clean-up and Waste Management:

- 15) All wildlife attractants must be secured (e.g., petroleum products, human food, recyclable drink containers and garbage) in wildlife-proof containers, a secure building or vehicle. When possible, keep food waste separate from construction waste and remove daily.

¹ The area defined by the outermost circumference of a tree canopy where water drips from and onto the ground.

- 16) Contain and stabilize waste material (e.g., construction waste and materials, vegetation) at a minimum of 30m from a water body.
- 17) Contain wastes and transport to an approved waste landfill site outside the Parks Canada protected heritage place, unless otherwise directed; cover waste loads during transportation. All construction materials must be removed from the site on project completion.
- 18) Burning is not permitted within the protected heritage place unless approved by Parks Canada.
- 19) Concrete mixing activities must take place over tarps and a minimum of 30m from waterbodies. Fresh, wet, uncured concrete and concrete dust must not come into contact with waterbodies. Secondary containment measures such as collection/drip trays and berms lined with air and water-tight material such as plastic and a layer of sand, and double-lined fuel tanks are required.
- 20) Excess concrete must be disposed of at an appropriate facility outside of the Parks Canada protected heritage place. If excess concrete from pump trucks must be dumped prior to transport outside the protected heritage place, it must be deposited in a location approved by Parks Canada and removed following hardening for disposal at an approved facility.
- 21) Construction, trade, hazardous waste and domestic waste materials shall not be burned, buried or discarded at the construction site or elsewhere in Parks Canada protected heritage places. These wastes shall be contained and removed in a timely and approved manner and disposed at an appropriate waste landfill site located outside the Parks Canada protected heritage place. Construction waste storage containers, shall be emptied when 90% full. Waste containers will have lids, be wildlife proof if there attractants and waste loads shall be covered while being transported.

Spill Response Plans and Hazardous Material Management:

- 22) A Spill Response Plan should be developed prior to work starting.
- 23) Ensure that all on-site workers receive a briefing about the Spill Response Plan and are aware of the location and use of spill kits and containment devices.
- 24) The Spill Response Plan will, at minimum, include the following information:
 - a) List of products and materials considered or defined as hazardous or toxic to the environment. Such products include, but are not limited to, waterproofing agents, grout, cement, concrete finishing agents, hot poured rubber membrane materials, asphalt cement, sand blasting agents, paint, solvents and hydrocarbons.
 - b) Required equipment on site.
 - c) Size, type and location of spill kits.
 - d) Fuelling procedures, fuel storage.
 - e) Spill prevention procedures (i.e., containment and storage of materials, security, handling, use and disposal of empty containers, surplus product or waste generated in the application of these products in accordance with all applicable federal and provincial legislation).
 - f) Spill response (i.e., containment, clean-up, disposal of contaminated materials, etc.).
 - g) Spill reporting procedure.
 - h) Up-to-date emergency response contact list including contact information for reporting spills.
- 25) Follow all applicable regulations and codes for the management and handling of hazardous waste.
 - a) Identify and handle all toxic/hazardous materials as required under the *Canadian Environmental Protection Act, Transportation of Dangerous Goods Act* and Workplace Hazardous Materials Information System.

b) Dispose of contaminated materials at provincially or territorially certified disposal sites outside of Parks Canada land.

- 26) Spill containment equipment must be present on-site. A spill contingency response kit including sorbent material and berms to contain 110% of the largest possible spill related to the work must be available on site at each location of potential spills (sites where equipment is working and at re-fuelling, lubrication, and repair locations).
- 27) All spills must be contained and cleaned-up as soon as it is possible to safely do so. In the event of a major spill, all other work must stop until the spill has been adequately contained and cleaned up.
- 28) The costs involved in a spill incident (the control, clean up, disposal of contaminants and site remediation to pre-spill conditions), shall be the responsibility of the proponent. The site will be inspected to ensure completion to the expected standard and to the satisfaction of Parks Canada.
- 29) Notify the designated Parks Canada staff and the emergency contact immediately of any spill. In the event of a major spill, call the first contact authority (Attachment 1).
- 30) Contaminants must be recovered at source and disposed of according to applicable laws, policies and regulations. The site will be inspected by Parks Canada staff to ensure completion to expected standards.
- 31) Petrochemical products, paints and chemicals must be stored a minimum of 30 meters away from waterbodies and, if left overnight, they must be secured.
- 32) All construction sites must be equipped with containers suitable for the secure, temporary storage of hazardous wastes, separated by type.
- 33) If hazardous waste or potentially contaminated material is uncovered during excavation / construction, work must stop and excavated materials must be secured onsite in a manner that prevents contamination of the surrounding environment, including leaching. The designated Parks Canada staff must be contacted for further direction.

Excavations:

- 34) Work should be planned when there is no precipitation forecast and to minimize the length of time of open trench or pit. If precipitation occurs during construction, the excavated area should be fully tarped.
- 35) If run-off is present during construction, the excavated trench must be lined with a tarp or silt fence until storm sewers are replaced/connected.
- 36) Silt fences must be erected around excavations to trap sediments prior to entering the storm sewer systems.
- 37) All back-fill materials must be stored on an impervious surface and tarped if necessary during precipitation or high winds.
- 38) All excavated materials with potential contaminants (e.g. asphalt, dirt with sealant) and any waste hazardous materials must be stored in a container and transported out of the park to a facility licensed to receive the material. Documentation must be provided.

Dewatering

- 39) A site specific dewatering plan is required be provided before commencing a pump-out sump to dewater excavation sites with specific details on how and where the water will be discharge.

- 40) Site specific mitigations may be required depending on the conditions of the discharge area, freezing conditions operation, overflow avoidance, decanting and settlement pond reclamation.
- 41) Water containing suspended materials shall not be pumped into watercourses, drainage systems or on to land, except with the permission of the SO.
- 42) Soil and vegetation erosion protection is required for water pumped on to land.

Vegetation Removal Mitigations

- 43) Minimize full removal and retain vegetation when possible to reduce erosion.
- 44) Avoid ground vegetation removal during dry, windy periods to prevent erosion of topsoil and reduction of air quality with dirt/dust.
- 45) Retain 30 metre vegetated buffer around water bodies, where disturbance is necessary and unavoidable restoration is required.
- 46) Debris will not be deposited in water bodies.
- 47) Ensure tree limbs/stumps are flush cut as close to the ground or stem as possible.
- 48) Logs and other salvage materials are to be conveyed to and placed at a storage site without spread of debris or damage to other standing trees or landscape resources outside the marked clearing or storage limits. They shall not be skidded through wetlands, waterways or water bodies.
- 49) During the grubbing component, stumps, roots, imbedded logs and other non-soil debris shall be pulled and shaken free of loose soil and rocks before transport to a designated pit.
- 50) Where possible preserve identified wildlife trees by limbing or topping if they are not assessed as hazard trees.

Topsoil Replacement

- 51) Implement restoration plan for the disturbed area immediately following completion of construction.
- 52) Replace topsoil to all areas immediately following fine grading.
- 53) Do not compact topsoil.
- 54) Where insufficient topsoil is available imported soil may be used as a last resort. Imported topsoil must be certified completely free of non-native seeds and compost developed from sewage treatment plants. Methods of improving vegetation succession using locally sourced, weed and contaminant free materials are preferred.

Seeding

- 55) Use approved native seed mixes developed for site-specific conditions for various elevations.
- 56) Seed and stabilize (e.g. mulch) bare areas as soon as possible after disturbance, preferably as soon as a significant area is graded and finished and before the next rain event. If there is a risk of seedling mortality as a result of fall frost stabilize until appropriate growing conditions exist.
- 57) Apply seed at a rate appropriate to the seed mixture, seeding method and existing vegetation conditions.
- 58) Conduct broadcast seeding under calm wind conditions. Hydro-seeding is acceptable where access is available.
- 59) Do not increase the seeding rate to compensate for poor seedbed conditions.
- 60) Monitor temporary erosion control measures to prevent seed loss.
- 61) Some seeding procedures may have to be completed or repeated in subsequent years.

Invasive Alien Species:

- 62) All construction equipment from outside the Parks Canada protected heritage place must be washed outside the site prior to arrival to minimize risk of introducing invasive weed species. Equipment must be inspected by Parks staff before entry is allowed into the park.
- 63) All soil, gravel, untreated construction lumber, erosion and sediment control products (e.g., hay, straw, mulch), or other applicable materials from outside the protected heritage place must be approved by the designated Parks Canada staff.
- 64) Organic material (e.g., topsoil, borrow and fill material, gravel) taken from the construction site will not be used in other parts of the protected heritage place unless approved by the designated Parks Canada staff.
- 65) Minimize ground disturbance and vegetation removal, when possible.
- 66) Minimize bare soil exposure (e.g., cover stockpiled material with tarps, plant native species, cover with natural mulch/ground coverings).
- 67) Stabilize and re-vegetate disturbed areas as soon as possible, ideally with native plants, soil and seed mix or otherwise approved by designated Parks Canada staff. If there is insufficient time remaining in the growing season, stabilize the site to prevent erosion and vegetate the following spring.

Wildlife Management:

- 68) If active nests, dens or roosts are discovered, stop work and contact designated Parks Canada staff immediately for direction.
- 69) Cover or fence hazardous areas when left unattended to reduce the potential for wildlife injury.
- 70) Never approach or harass wildlife (e.g., feeding, baiting, luring).
- 71) If wildlife is observed at or near the work site, allow the animal(s) the opportunity to leave the work area.
- 72) Designated Parks Canada staff must be alerted immediately to any potential wildlife conflict (e.g., aggressive behaviour, persistent intrusion), distress or mortality. In the case of aggressive behaviour or persistent intrusion, stop work and evacuate the area.
- 73) On-site workers must receive any required wildlife awareness training, according to field unit policy.

In-water Work:

- 74) The 40 m long pipe will be placed in the water via boat and divers during open water season; if the in-water work is not scheduled until after the lake is frozen, the work will be done by cutting through the ice by hand and placing the pipe from the ice surface using divers.
- 75) Regardless of when the pipe is installed, a full depth silt curtain will be placed around the entire work area prior to installing the pipe. If pipe installation is not scheduled until after freeze up, the silt curtain will be placed in the water in the fall and allowed to freeze into place.

Visitor Experience and Safety:

- 76) As much as possible, schedule noisy activities to minimize impacts to visitors, especially around Townsite, campgrounds and other high visitor use areas.
- 77) Close and mark the work site with appropriate signage while active construction, repair or maintenance is underway; consider temporary detours or reroutes as appropriate.
- 78) Secure and clearly mark unattended safety hazards (e.g., excavations, debris piles) with fencing, warning signs, area closures or combination thereof.

- 79) If closing the area is not possible, maintain a safe working distance between work activities and visitors. If traffic control is required, a flag person should manage traffic through the construction/hazard area.
- 80) Visitor access trails and roads outside the construction area must be free of construction materials, waste, machinery and equipment.

7. PUBLIC/STAKEHOLDER ENGAGEMENT & ABORIGINAL CONSULTATION

- 7 a)** Indicate whether public/stakeholder engagement was undertaken in relation to potential adverse effects of the proposed project:
- No
 - Yes (describe the process to involve relevant parties and indicate how comments were taken into consideration).
- 7 b)** Indicate whether Aboriginal consultation was undertaken in relation to potential adverse effects of the proposed project:
- No
 - Yes (describe the process to involve relevant parties and how the results were taken into consideration).

8. SIGNIFICANCE OF RESIDUAL ADVERSE EFFECTS

9. SURVEILLANCE

- Surveillance is not required
- Surveillance is required (provide details such as the proposed schedule and the focus of inspections)

10. FOLLOW-UP MONITORING

Follow-up monitoring is:

- not required
- legally required (e.g. under the *Species at Risk Act* or *Fisheries Act*)
- required in accordance with the *Parks Canada Cultural Resource Management Policy*

11. SARA NOTIFICATION

Notification is:

- not required
- required under the *Species at Risk Act* (outline the nature of and response to any notification).

12. EXPERTS CONSULTED

Include Parks Canada experts. Add as many entries as necessary for the project.

Department/Agency/Institution:	Date of Request: YYYY-MM-DD
Expert's Name & Contact Information:	Title:
Expertise Requested:	
Response: Summarize, append correspondence as required and add to attachment list (Section 17).	

13. 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.

NOTE: If the project is identified as likely to cause significant adverse effects, CEAA 2012 prohibits approval of the project unless the Governor in Council (Cabinet) determines that the effects are justified in the circumstances. A finding of significant effects therefore means the project CANNOT go ahead as proposed.

FOR SARA REQUIREMENTS:

- There are no residual adverse effects to species at risk and therefore the SARA-Compliant Authorization Decision Tool was not required

OR, the SARA-Compliant Authorization Decision Tool ([Appendix 2](#)) was used and determined:

- There is no contravention of SARA prohibitions
- Project activities contravene a SARA prohibition and CAN be authorized under SARA
- Project activities contravene a SARA prohibition and CANNOT be authorized

14. RECOMMENDATION AND APPROVAL

(Add additional blocks as required)

Prepared by: EIA author (name & position): Fiona Moreland, NPFU Impact Assessment Coordinator	Date: 2018-08-23
Recommended by: Functional manager of the project (name):	Date: YYYY-MM-DD
Approved by: Name & position: David Britton, Northern Prairies Field Unit Superintendent	Date: 2018-08-23
Signature:	

15. ATTACHMENTS

16. 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.*)

*****Ensure that all required mitigation measures and conditions (e.g. follow-up monitoring requirements) are included in project permits and authorizations*****

Appendix 1 Environmental Impact Analysis Tools: Effects Identification Matrix

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)	Insert heritage values	Insert heritage values
Phase	Examples of Associated Activities								
Project Components	Preparation / Construction / Operation / Decommissioning	Supply and storage of materials	<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"/>
		Clearing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>
		Disposal of waste	<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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Excavation	<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Backfilling	<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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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"/>
		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"/>
		Use of Chemicals	<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"/>		
Other...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

A. Direct effects continued

<p><i>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.</i></p>		Valued components potentially 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)	Insert heritage values	Insert heritage values
Phase	Examples of Associated Activities							
Project Components	Preparation / Construction / Operation / Decommissioning	Waste disposal	<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"/>
		Maintenance	<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"/>
		Use/Removal of temporary facilities	<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"/>
		Active fire stage	<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"/>
		Planting	<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"/>
		Vehicle Traffic	<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"/>

Section B of the matrix should be used to identify potential indirect effects that may result from impacts of the project to components of the environment you have identified on the preceding pages (see Section A - direct effects to natural resources). Consideration of indirect effects is required under CEAA 2012 Sections 5(1)(c) and 5(2)(b), and by the PCA mandate. 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?
- could changes to the environment (e.g. digging, clearing) affect visitor access, opportunities, or safety?

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:		With respect to visitor experience	
		Health and socio-economic conditions	Health & socio-economic conditions	Current use of lands and resources for traditional purposes	Access & services	Recreation & accommod'n opportunities	Safety
Phase	Natural resource components affected by the project						
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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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"/>

Attachment 1. Emergency Contacts and Spill Response

Spill Plan Template

1. Hazardous Materials On-site

Location (Storage, Transport, Handling)	Description (Attach an MSDS Sheet for Details)	Amount

2. Equipment On-site that May Be Used in the Event of a Spill

Description	Quantity	Location

3. Spill Response Plan

(a) General Spill Response Plan

- 1) Locate the source of the spill and stop the flow if safe to do so. Shut off pumps and cover or block sewers.
- 2) Eliminate the danger of fire if safe to do so. Shut off the power supply and all sources of ignition. Extinguish any flames only if safe to do so.
- 3) Evacuate people and restrict access to spill site.
- 4) Contain the spill if safe to do so by using sorbent products or other natural materials (straw, peat moss, earth, snow, etc.).
- 5) Stop the product from flowing into storm sewers, water bodies, etc. Do not flush product into sewers.
- 6) Notify Prince Albert National Park dispatch, and the facility supervisor.

(b) Project Specific Spill Response Plan Details

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4.Safety and First Aid

(a) Designation Areas of Refuge

Source of Spill	Area of Refuge

(b) First Aid for Medical Emergencies Related to Hazardous Materials

Description	Key First Aid Responses

(c) Emergency First Aid Responder

Name	Contact

(d) If Advanced Medical Attention is Needed

Closest Hospital	Name: Address: Phone:
Transport to Hospital	Name: Address: Phone: Or Call 911 to request an ambulance

5. Spill Response Directory**(a) Local Emergency Contacts**

Prince Albert National Park Resource Conservation Office	911
Prince Albert National Park Duty Officer Cell	(306) 960-9315 or 911
Parks Canada Dispatch	1-877-852-3100
Christine Hamilton	(306) 663-4549 (Office) (306) 960-0723 (Cell)
Kurt Smith	(306) 663-4560 (Office) (306) 960-9385 (Cell)
Waskesiu Fire Department	911
Waskesiu RCMP	(306) 663-4400 or 911

(b) Spill Reporting

Saskatchewan Environmental Spill Report Centre	1-800-667-7525 hrs)
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(c) Spill Response, Hazardous Substance Information, and Remediation Services

CANUTEC Canadian Transport Emergency Centre. Transport Canada, Transportation of Dangerous Goods Branch	(613) 996-6666 (24 hrs) or Cellular call *666
SaskEnergy	1-888-700-0427
Saskatchewan Transport Regulations and Dangerous Goods	(306) 787-4801
Action Petroleum, Prince Albert	(306) 922-1722 or (306) 961-7555
Amec Earth and Environmental, Saskatoon	(306) 975-0444
Clifton Associates, Regina	(306) 721-7611
KW Petroleum, Saskatoon	(306) 244-4468
Machibroda P. Engineering, Saskatoon	(306) 665-8444

