

Appendix 3-L

Public Issues Tracking Table

HARPER CREEK PROJECT

**Application for an Environmental Assessment Certificate /
Environmental Impact Statement**

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Issue	YMI Response	Raised By
Access and Transportation		
Effects on the forest service roads (FSRs) of Jones Creek and Vavenby Mountain as they relate to snowmobile access. Safety of recreational users of area FSRs.	Access management arrangements will be established between recreational users and HCMC for use of the Vavenby Mountain, Jones Creek and Saskum West FSRs to allow for continued and safe access to recreational areas.	Clearwater Sno-Drifters Snowmobile Club
Access restrictions on the Jones Creek and Vavenby Mountain Roads.	A gatehouse will be installed at the entrance to the Project Site. The gatehouse will ensure the physical integrity of the facilities, and control and record the access of people to restricted areas. Additional gates may be installed on other Forest Service Roads (FSRs) that enter the Project, , after consultation with BC FLNRO and BC MEM where other permitted road users are affected. The locations of the additional gates, for example on the Jones Creek FSR and Road 5 FSR, will be assessed during the Construction Phase to maximize safety without impacting other road users.	Averley Ranch
Closure and Reclamation		
Reclamation of drill pads.		Range Tenure Holder
Reclamation of the power line route.		Landowner 2
Employment, Training, and Economic Opportunities		
Skills and labour force required for the Project, types of shift work.	Workforce requirements for the Project are discussed in section 5.13 of Chapter 5 (Project Description). Employment opportunities created by the Project are discussed in section 1.9.3 of Chapter 1 (Project Overview).	District of Clearwater
Lack of labour force; sharing apprenticeships.	Potential effects to the labour force as a result of increased competition is discussed in section 17.5.1.1 of Chapter 17 (Socio-economic Effects). Relative to increased competition for skilled labour and wage inflation, are the following mitigation measures: <ul style="list-style-type: none"> • HCMC will work cooperatively with local sawmills to address employment needs in the North Thompson. • Preparation and implementation of a local hiring and training policy prior to commencement of construction. • Collaboration with Clearwater and Barriere Employment Services on recruitment needs and processes with respect to the Construction and Operations phases; • Preparation and implementation of a policy on procurement of materials and services from BC and regional suppliers. 	Canadian Forest Products Ltd.
Labour force and sharing apprenticeships.	A Discussion of the benefits of the Project is included in Section 1.	Canadian Forest Products Ltd.
Job opportunities.	In accordance with section 6.4 of the AIR, potential effects on labour income generated and the health and well-being of communities, families, and individuals is assessed in the Application.	Public
Fish and Fish Habitat		
North Thompson is habitat for Chinook, Dolly Varden and bull trout.		Public
Disturbance of fish.		Trapline Tenure Holder 1
Hydrology		
Water flow after dam construction.		Landowner 1
Effects on local creeks from mine water usage (flow impacts).	The Site Water Management plan for the Project will involve collecting and managing site runoff from disturbed areas and maximizing the recycle of process water. Surplus water will be stored on site within the TMF and used as process water through the first 24 years of Operations. Process water for the final four years of Operations will primarily be derived from the open pit. The process water supply sources for the Project are as follows: <ul style="list-style-type: none"> • precipitation runoff from the Project Site facilities; • water recycle from the TMF supernatant pond (Years 1 to 23) and the open pit (Years 24 to 28); and • groundwater from open pit dewatering. 	Public
Infrastructure and Services		
Increased level of traffic on local roads.	The increase in the level of traffic on local roads was forecast during the Traffic Impact Assessment (Appendix 17-B) carried out for the proposed Project.	Averley Ranch
Lack of housing in Vavenby; nothing will be available for project workers.	During the Construction phase (the first two years of the Project), non-resident employees will be house on-site. During Operations, an increase in housing demand is likely. However, new subdivisions are being planned in Clearwater and Barriere in anticipation of the Project proceeding.	Century 21
Availability of housing for Project employees.	Baseline studies indicate that there is a sufficient amount of available housing in communities near to the Project to support the Project work force.	Century 21

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<i>Land Use</i>		
Access to mine area roads that have historically been used for recreation area access; provision of alternative access roads.	Access management arrangements will be established between recreational users and HCMC for use of the Vavenby Mountain, Jones Creek and Saskum West FSRs to allow for continued and safe access to recreational areas.	Clearwater Sno-Drifters Snowmobile Club
Impact of mine on availability of water for irrigation.	The potential effects of changes in water quantity on commercial interests in the LSA and RSA is discussed in section 18.5.1.1 of Chapter 18 (Land, Water and Resource Use Effects).	Public
Project workers on private property (doing baseline studies, etc.).	The presence of project workers on private property was to be arranged via communication with property owners by proponent staff. This arrangement will continue for all field work in the future.	Averley Ranch
Extreme snowfall in the area and effects of snow on fences.	Cattle fences around the Project site will be monitored especially after heavy snowfall to ensure they are properly maintained.	Range Tenure Holder
Effect of mine of food for local sheep and cattle.	The potential effects of the Project on the quality of plants, including grazing plants, is discussed in section 15.5.1.1 of Chapter 15 (Terrestrial Ecology), and section 16.5.1.4 of Chapter 16 (Wildlife).	Range Tenure Holder
Project effects on traplines.	The potential effects of the Project on use of trapline areas is discussed in section 18.5.1.1 of Chapter 18 (Land, Water and Resource Use). The potential effects of the Project on wildlife resources utilized by trappers is discussed in section 16.5.1 of Chapter 16 (Wildlife). To mitigate potential effects for affected Trapline tenure holders, HCMC has established mitigation agreements with licence holders TR0337T001 and TR0341T003. The details of these agreements are confidential. As these compensation measures are established no residual effects relative to trapline land base or subsequent commercial income are anticipated.	Trapline Tenure Holder
Cattle access to the tailings management facility.	If livestock is found to repeatedly enter the mine site area, cattle grids on the roads or other physical barriers will be considered. These may be placed at strategic locations to prevent the access of cattle to the TMF. BC MFLNRO may be consulted about the whereabouts and movement of range herds.	Range Tenure Holder
Risks to cattle as a result of sumps at drill sites and weeds and exposed dust on the drill pad sites.	An invasive species program based on Invasive Plant Council of BC and with Southern Interior Weed Management Committee (SIWMC) information will be used to monitor and control invasive species. This information is in the Vegetation Management Plan. The potential effects of the Project on ungulates from chemical hazards, due to ingestion of contaminated water, plants, or soil, are discussed in section 16.5.1.4 of Chapter 16 (Wildlife). It is assumed that the effects on ungulates will act as a proxy for livestock. Drill pads and sumps were rehabilitated in the fall of 2012.	Range Tenure Holder
Lack of signage about the Project site on the main access roads.	As described in Section 5.8.4 (Project Description, Site Access Road) of the Application/EIS, upgrades to access roads during Project construction and operations will include signage improvement. Following this comment, YMI placed signs at the access routes mentioned when activities start up the following year (2013).	Range Tenure Holder
Potential effects on recreational fishing, in particular Graffunder, Saskum and North Barrier Lakes.	Access to these lakes will not be affected. Effects to recreational use of lands and resources is discussed in section 18.5.1.2 of Chapter 18 (Land, Water and Resource Use). Potential effects to fish resources utilized by recreational fishers is discussed in section 15.5 of Chapter 15 (Fish and Aquatic Resources).	North Thompson Fish & Game Club
Effects on access to, and economic viability of, trapline tenure.	To mitigate potential effects for affected Trapline tenure holders, HCMC has established mitigation agreements with licence holders TR0337T001 and TR0341T003. The details of these agreements are confidential. As these compensation measures are established no residual effects relative to trapline land base or subsequent commercial income are anticipated.	Trapline Tenure Holder
Effects on cattle and ranching business, including effects on range, forage, fencing (concerns about Project fencing not withstanding snowfall), organic product branding, and associated mitigation measures.		Range Tenure Holder
Lack of Project signage at site.	Forest Service Roads (FSRs) will be upgraded as part of the Project, which includes signage improvements. Mitigation measures related to the access road and power line crossings include signage during instream works, following federal standards and guidelines. Signage is discussed in Chapter 18 of the Application/EIS, Commercial and Non-Commercial Land Use.	Range Tenure Holder
Cost and challenge associated with changing range tenures.	A mitigation agreement with the range tenure holder to mitigate and support the costs of moving is being considered.	Range Tenure Holder

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Issue	YMI Response	Raised By
Land Use (cont'd)		
How the ranch may be affected by the Project and how YMI will address their interests.	Signage is discussed in Chapter 18 of the Application/EIS, Commercial and Non-Commercial Land Use.	Landowner 1
Vehicle speed and access restrictions on local roads.	Increased traffic has the potential to indirectly deter snowmobile users and present potential safety risks. Those accessing Saskum Lake recreation site are not anticipated to be affected by Project traffic, as access to the lake is via the Barrière Lakes Road.	Landowner 1
Effects on ecotourism.		Landowner 1
Effects on snowmobile access in the area.	Effects of the Project on land use (including snowmobiling) are assessed in the Application in accordance with section 6.0 of the AIR.	Clearwater Sno-Drifters Snowmobile Club
Safety of recreational users of area FSRs and trails.	HCMC has agreed to ongoing communications with local recreational clubs, and potential commercial recreational stakeholders identified in Section 18.4.3.10 that have indicated their use of these roads. Management controls developed with the Clearwater Sno-drifters Club, which includes the development of two pullout/parking areas along the Vavenby Mountain FSR. Measures contained in the Traffic Management Plan, such as Project vehicle radio communications and adherence to speed limits. Safety is discussed in Chapter 18 of the Application/EIS, Commercial and Non-Commercial Land Use.	Clearwater Sno-Drifters Snowmobile Club
Potential effects on trapline, including access and economic effects.	To mitigate potential effects for affected Trapline tenure holders, HCMC has established mitigation agreements with licence holders TR0337T001 and TR0341T003. The details of these agreements are confidential. As these compensation measures are established no residual effects relative to trapline land base or subsequent commercial income are anticipated. Effects on traplines are assessed in Chapter 18 of the Application/EIS, Commercial and Non-Commercial Land Use.	Trapline Tenure Holder 1
Potential effects on trapline, including continued ability to use.		Trapline Tenure Holder 2
Potential effects of the mine site footprint and catchment area on recreational fishing.		North Thompson Fish & Game Club
Potential effects on access and use of the Project area by the local snowmobile club.	Effects of the Project on land use (including snowmobiling) are assessed in the Application in accordance with section 6.0 of the AIR.	Public
Project Design		
Source of water for tailings pond water.	The water supply sources for the TMF include: a) runoff from the catchment above the Project site and runoff from the Project site facilities, b) direct precipitation on the TMF, and c) open pit dewatering (Appendix 12-B and Mine Waste and Water Management Design Report).	Public
Employee accommodations (camp versus living locally in communities).		District of Clearwater
Socio-economic		
Camp accommodations for employees (instead of housing in local communities).	Construction personnel will be housed on site in a typical modular camp. The camp will provide single occupancy rooms but workers will share common laundry, washroom, dining, and recreational facilities. The camp will be leased for the term of the Construction period and removed once Construction is completed. Operations personnel will reside offsite in local communities such as Vavenby, Clearwater, and the surrounding area. Workers will be transported daily by bus from the rail load-out facility to and from the Project Site.	District of Clearwater
Terrestrial Ecosystems and Vegetation		
Weed control.	An invasive species program based on Invasive Plant Council of BC and with Southern Interior Weed Management Committee (SIWMC) information will be used to monitor and control invasive species. This information is in the Vegetation Management Plan (Section 24.18)	Landowner 2
Visual Quality		
Visual aesthetics of the mine from surrounding properties.	A viewshed analysis was performed for the Project; this analysis is included in Chapter 19, Visual Quality Assessment, of the Application/EIS.	Public
Visual impact of power line.	In accordance with section 6.2.3 of the AIR, potential effects of the Project from strategic viewpoints are assessed in the Visual Quality chapter in the Application (e.g., North Thompson River valley near Vavenby and surrounding recreational areas such as Dunn Peak).	Landowner 1
Visual effects of the Project.	In accordance with section 6.2.3 of the AIR, potential effects of the Project from strategic viewpoints are assessed in the Visual Quality chapter in the Application (e.g., North Thompson River valley near Vavenby and surrounding recreational areas such as Dunn Peak).	Public

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Water Quality and Aquatic Resources		
Potential issues with acid rock drainage and metal leaching.	The potential for ML/ ARD was considered in the development of geochemical source terms (Chapter 6) that are included in water quality predictions (Appendix 13-C). The water quality effects assessment (Chapter 13) includes the results of the predictive water quality model.	Public
Effect of mine water use on area creeks.	Effects of Project Construction, Operation, Closure and Post-Closure on water quantity within the creeks and rivers have been assessed in Chapter 12 (Section 12.5.3.1).	Public
Acid generation from rocks in the tailings area.	The potential for ML/ ARD was considered in the development of geochemical source terms (Chapter 6) that are included in water quality predictions (Appendix 13-C). The water quality effects assessment (Chapter 13) includes the results of the predictive water quality model.	Public
Water quality in tailings pit.	Section 5.5 of the Application Information Requirements (AIR) (October 2011) require the Application to assess the potential effects of the Project on the aquatic environment, including water quality and quantity, fish and fish habitat. The Application will identify measures to mitigate potential effects (e.g., Fish Habitat Offsetting Plan, Aquatic Effect Monitoring Plan and Metal Leaching/ Acid Rock Drainage Plan). The Application will include a conceptual Closure and Reclamation Plan, which will be required by the BC <i>Mines Act</i> (1996) and Health and Safety, Reclamation Code for Mines in BC (2008).	Trapline Tenure Holder 1
Water use and management.	Effects on water quality as a result of the Project have been extensively addressed by re-designing the Project to avoid discharge to Baker Creek, and by optimizing the Project footprint to consolidate Project infrastructure (e.g., relocating PAG Low Grade Ore stockpiles). Additionally, a Sediment and Erosion Control Plan, Site Water Management Plan, Selenium Management Plan and a Metal Leaching/ Acid Rock Drainage Management Plan will further mitigate risks to water quality. The effects of the Project on surface water quality will be assessed in the Application.	Public
Water quality, metal leaching, and acid rock drainage.	Section 5.5 of the Application Information Requirements (AIR) (October 2011) require the Application to assess the potential effects of the Project on the aquatic environment, including water quality and quantity, fish and fish habitat. The Application will identify measures to mitigate potential effects (e.g., Fish Habitat Offsetting Plan, Aquatic Effect Monitoring Plan and Metal Leaching/ Acid Rock Drainage Plan). The Application will include a conceptual Closure and Reclamation Plan, which will be required by the BC <i>Mines Act</i> (1996) and Health and Safety, Reclamation Code for Mines in BC (2008).	Public
Wildlife and Wildlife Habitat		
Disturbance of wildlife.	The impacts of the Project footprint on wildlife has been assessed using the following effects: habitat alteration, disturbance and displacement and mortality (Chapter 16). Mitigation measures for mine footprint effects to wildlife are presented in the Wildlife Management Plan (Section 22.19).	Trapline Tenure Holder 1