Appendix 2-C

Summary of Issues, Concerns, and Interests Raised by Government Agencies during the Pre-Application Stage

MURRAY RIVER COAL PROJECT

Application for an Environmental Assessment Certificate / Environmental Impact Statement

Topic	Summary of Issue, Concern or Interest	Raised by	Proponent Response
	Potential effects of the Project, including water discharge, on stream fish habitat, water quality and load	CEAA, BC MOE, BC MEM	 Water management is a key factor in the Project's basic engineering design. Substantial minimizes reliance upon, or potential effects to, local water sources. This includes a see water as make-up water in the coal preparation plant and constructing clean water div Mitigation of the effects of mine construction, operation and closure will include (where diversion of water around construction areas; application of erosion and sediment control measures to minimize the concentration regular inspection of water management infrastructure to ensure continued function Potential effects of the Project on water quality and mitigation measures is further descention.
	Potential effects of the Project on water quality due to underground seepage	BC MEM, BC MOE (EPD)	It is recognized that at this stage in Project planning, there is a high degree of uncertain underground mine. Two independent means of estimating inflow rates have been deve been completed both of potential inflow rates, and of estimated water quality. Potential effects of the Project on groundwater and water quality and associated mitiga Groundwater Effects) and Chapter 8 (Assessment of Surface Water and Aquatic Enviro
Environment	ML/ARD management	BC MEM	The ML/ARD characterization is based on the Ministry of Environment's Environmen of the Health, Safety and Reclamation Code for Mines in British Columbia (BC MEMPI drainage and metal leaching prediction, prevention and reporting. ML/ARD predictio guided by the following documents: o Policy for Metal Leaching and Acid Rock Drainage in British Columbia (BC MEM an o Guidelines for Metal Leaching and Acid Rock Drainage at Mine sites in British Colur o List of Potential Information Requirements in Metal Leaching/Acid Rock Drainage A o Prediction Manual for Drainage Chemistry from Sulphidic Geologic Materials (Price
	Potential effects of the Project on wetland ecological function and conservation	Environment Canada	The Proponent will protect wetlands by (among other measures) developing reserve an periods during which risk of effects are minimal (e.g. during the frozen ground period Potential effects of the Project on wetlands and mitigation measures are further describ
		Environment Canada	The Project design will minimize wildlife habitat effects by creating a small footprint, Over the course of Project design, the Proponent chose to make a substantial change fre would cross Murray River to a second underground decline under Murray River. This associated with linear developments, fish habitat, and archaeological sites. The Project will minimize direct interaction with wildlife by: adhering to wildlife sensi buffer distances for important species and sensitive wildlife habitats; controlling traffic enforcing a no hunting policy for employees and contractors. Potential effects of the Project on wildlife and mitigation measures is further described
Social	Potential effects of the Project on the Quintette caribou herd Temporary Foreign Workers and associated social, economic and health issues need to be addressed	BC EAO	The Proponent has invested \$15 million to develop worker housing in Tumbler Ridge. for the Murray River Project at no cost to the TFWs. The Proponent will provide TFWs provide new TFWs with an information package about Tumbler Ridge and the surrour services, associations, and activities. The Proponent will also actively seek to sponsor of Tumbler Ridge residents. Further information about the effect of the Project on health of (Assessment of Social Effects).

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I effort has been invested to develop Project infrastructure that epage collection system under the CCR piles, re-use of contact versions to minimize contact water. re appropriate):

and channelization of water over disturbed areas;

cribed in Chapter 8 (Assessment of Surface Water and Aquatic

nty associated with estimating groundwater inflows to the reloped to support mine planning, and sensitivity analysis has

ation measures are further described in Chapter 7 (Assessment of onment Effects) and associated appendices.

ntal Code of Practice for Metal Mines sections 3 and 4 and Part 10 R 2008), which contain guidance and requirements for acid rock on, prevention and mitigation in British Columbia are further

nd BC MELP 1998); mbia (Price and Errington 1998); Assessment and Mitigation Work (Price 2005); and 2009).

nd buffer areas and scheduling work activities during time I and low water conditions). bed in Chapter 12 (Assessment of Wetlands Effects).

utilizing already disturbed land, and using existing access roads. rom an approximately four kilometre overland conveyor that s change will reduce potential effects to wildlife mobility

itive periods, guidelines and recommended minimum target c to avoid collisions with wildlife; minimize attractants; and

l in Chapter 13 (Assessment of Wildlife Effects).

The Proponent is providing worker housing in Tumbler Ridge s with English language training. In addition, the Proponent will nding region that will include information about community community events that serve to bring TFWs together with current care and mitigation measures is located in Chapter 15

Горіс	Summary of Issue, Concern or Interest	Raised by	Proponent Response
	Potential effects of the Project on navigable waters	Transport Canada	The waters identified as interacting with the Project are not included in the NPA's List or crossings assessed for the Project, only Murray River was found to be navigable. This re available and presented, the common law right of navigation is not likely to be infringe project components. Potential effects to navigation are addressed Chapter 16 (Assessme
	Potential land use effects resulting from tenure overlap	BC EAO, BC MOE	The Project could result in the sterilization of resources for PNG tenure holders due to l discussions with potentially-affected PNG tenure holders to identify acceptable mitigat resources accessible to wind power companies due to potential subsidence affecting the discussions with potentially-affected wind power companies to identify acceptable miti for other tenure holders due to subsidence. The Proponent has designed the Project to it designed to protect existing infrastructure. Where infrastructure exists outside of the Lo Proponent will engage with tenure holders to identify acceptable mitigation measures. (Assessment of Land Use Effects).
Land Use	Potential effects of the Project on subsidence	BC MOE (EPD)	The Project could affect existing infrastructure for other tenure holders due to subsident Longwall Exclusion Zone - a horizontal buffer designed to protect existing infrastructur zone that may be affected by subsidence, the Proponent will engage with tenure holder land use will be addressed in Chapter 16 (Assessment of Land Use Effects). Potential ef movement, changes to fluvial processes, and soil erosion (Chapter 10 - Assessment of T loss or degradation of ecologically valuable soils, loss or deterioration of the BC CDC lis quality of harvestable plants (Chapter 11 - Assessment of Effects on Terrestrial Ecology) wetlands (Chapter 12 Assessment of Effects on Wetlands). Since the extent or location of effect occurrence is difficult to predict, management and a determined at the time of potential event. The initial emphasis will be placed on subside wetland) ecosystems or on terrain stability or are identified, HD Mining will investigate the opportunities to modify the mine plan.
	Potential effects of the Project on recreation trails	BC MJTSD	There are no hiking trails within the Land Use LSA, though recreationalists will travel to Nesbitt's Knee Falls trails. The Project will not inhibit access to these trails. Some vantage points along trails within the RSA, especially on the east side of the Murr The project has been designed to minimize the surface footprint, and is adjacent to exist project will be managed to limit potential effects to the quality of recreational experience Potential effects to recreation are addressed in Chapter 16 (Assessment of Land Use Effects
	Fishing and other water-based recreation	BC MJTSD	Access to the Murray River for fishing and water based recreation will not be affected b assessed in Chapter 9 (Assessment of Fish and Fish Habitat Effects) and potential effect (Assessment of Land Use Effects).

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of Scheduled Waters. Out of a total of 19 stream reaches and eport (Appendix 16-B) concludes that based on the data ed upon on any of the waters identified as interacting with ent of Land Use Effects).

liberation of coalbed gas. The Proponent will engage in tion measures. The Project could affect the quality of wind e placement of wind towers. The Proponent will engage in igation measures. The Project could affect existing infrastructure include a Longwall Exclusion Zone - a horizontal buffer ongwall Exclusion zone that may be affected by subsidence, the Potential effects to land use will be addressed in Chapter 16

nce. The Proponent has designed the Project to include a ure. Where infrastructure exists outside of the Longwall Exclusion rrs to identify acceptable mitigation measures. Potential effects to iffects of subsidence on Terrain Stability could include mass Terrain Effects). Effects on Terrestrial Ecosystems could include listed and forested ecosystems, and decrease in abundance and y). Subsidence could also lead to losses and degradation of

mitigation efforts will reflect the required response level lence monitoring. In case major adverse effects on (terrestrial or e the causes and undertake remedial actions including review of

through the LSA to access the Mt. Herman, Barbour Falls and

ray River, may make the Project visible to hikers. ting developments. During Construction and Operation, the ce by controlling noise sources and traffic. fects).

by the Project. Potential effects to fish and fish habitat are ts to recreational land use are addressed in Chapter 16

Торіс	Summary of Issue, Concern or Interest	Raised by	Proponent Response
	Potential effects of liberated methane on air quality	Health Canada	Coalbed gas management is a critical part of safe mine operation. A description of coal be provided in Chapter 3 (Project Description). The Project will employ an inter-connected of via the ventilation shaft. Depending on the volume of methane released, HD Mining may capture and use. Potential effects of the Project and mitigation measures are further description Chapter 24.2 (Air Quality and Dust Control Management Plan).
Health	Effects of particulate matter (dust deposition) on air quality	Health Canada	Air quality modelling has been completed for the Project (Appendix 6-B). Dust depositio road. The exceedances extend approximately 1 km from the road, with the majority of ex direction. The model has been run assuming no anthropogenic dust control; however, m amount of unpaved road dust by 75%. Other means of dust control are described in Chap
			Based on preliminary analysis of the air quality model results no risks to human health v quality. Potential effects of the Project on human health and mitigation measures are furt
	Potential effects of noise on human health	Health Canada	 Noise modelling has been completed for the Project (Appendix 18-C) to support the asse Potential noise effects from the Project will be mitigated by : * minimizing the number of trips required; * reducing speeds to 50 km/hour near communities (i.e., Tumbler Ridge); * adhering to a vehicle maintenance program; * following maintenance procedures and schedules provided by vehicle manufacturers; * using vehicle noise suppression technologies where possible; * avoiding the use of engine brakes, reversing alarms, horns, whistles, and bells near con * providing noise awareness training for Project transportation personnel. There are no predicted residual effects of the Project on human health due to noise and n (Assessment of Health Effects).
	Potential effects of the Project on drinking water	Health Canada	A water quality prediction model has been developed for the Project (Appendix 8-E). Rest standards. Based on the water quality predictions, and the locations of potential drinking to the Project-related changes in water quality. Potential effects of the Project on human Chapter 18 (Assessment of Health Effects).
	Country foods	Health Canada	A baseline country foods screening level risk assessment was undertaken to assess the risconsumption of metals present in country foods. No risks to human health were identific consumption of representative country foods (moose, snowshoe hare, grouse, trout, whit considered as part of the effects assessment for human health. No predicted residual effects untry foods. Potential effects of the Project on human health and mitigation measures are further descent
	Transportation and storage of dangerous goods	Health Canada	Information about the type, estimated amount, storage, use, handling, and disposal of ha in the Project Description (Chapter 3).

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bed gas management that will be employed at the Project is ed drainage system to collect coalbed gas and vent it to the surface nay consider other options such as catalytic oxidation, flaring or escribed in Chapter 6 (Assessment of Air Quality Effects) and

tion rates were predicted to be above the BC objective along the exceedances to the east of the road due to the prevailing wind mitigation measures such as road watering would reduce the hapter 24.2 (Air Quality and Dust Control Management Plan).

would be expected due to the Project-related changes in air urther described in Chapter 18 (Assessment of Health Effects).

sessment of human health.

ommunities; and

mitigation measures are further described in Chapter 18

Results of the model were compared against drinking water ing water use, no risks to human health would be expected due an health and mitigation measures are further described in

risk to consumers of country foods due to incidental tified in the baseline country foods assessment from the hitefish, and berries). The quality of country foods was also effects to human health are expected due to the consumption of

escribed in Chapter 18 (Assessment of Health Effects).

hazardous materials, reagents, and dangerous goods is provided