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January 20, 2015

Via Email: RobbTrend@ceaa-acee.gc.ca

Canadian Environmental Assessment Agency 160 Elgin Street, 22nd Floor Ottawa, ON K1A 0H3

Attention: Brett Maracle, Panel Manager

Dear Mr. Maracle:

Re: Coal Valley Resources Inc., Robb Trend Coal Mine Expansion,

CEAA Reference #61436

Our File: 041205-0048 & 043998-0007

We represent Ermineskin Cree Nation ("ECN") and Whitefish Lake First Nation #128 ("WLFN") on the above noted matter.

This is further to CEAA's December 5, 2014 request for comments on the draft Agreement to establish joint review panel with the Alberta Energy Regulator on the proposed Robb Trend project ("draft Agreement").

Attached are the Nations' comments which were prepared with the technical assistance of Dr. Timothy Clark, Willow Springs Strategic Solutions and Cliff Wallis, P. Biologist, Cottonwood Consultants. The review focused on the draft Terms of Reference, which are attached as Appendix 1 to the draft Agreement. These draft Terms of Reference propose to incorporate the Final Terms of Reference issued by Alberta Environment and Sustainable Resource Development in August 2011 (p. A2). Accordingly, where not addressed by the additional Terms set out in Appendix 1, comments on the Final Terms issued by Alberta in 2011 have also been included.

We also request that CEAA include the following individuals on the CEAA's distribution list for this project application:

Darryl Steinhauer, Consultation Coordinator for WLFN, WFL128TraditionalLand@gmail.com

Carrol Wildcat, Consultation Manager for ENC, carol@ermineskin.ca

Meaghan Conroy, counsel for ECN and WLFN, mconroy@mlt.com.



Please contact us if CEAA requires any clarification.

Sincerely,

MacPherson Leslie & Tyerman LLP

Pe <original signed by>
Meaghan M. Conroy ~

MMC:mmf

Cc: Clients

Review of the Draft Agreement to Establish a Joint Review Panel for the Robb Trend Coal Mine Expansion Project, Appendix #1: Terms of Reference

Prepared for the Ermineskin Cree Nation and the Whitefish Lake First Nation #128

By Dr. Timothy David Clark

Willow Springs Strategic Solutions

The Ermineskin Cree Nation (ECN) and the Whitefish Lake First Nation #128 (WLFN) are Treaty 6 Nations located in Central and Northeastern Alberta, respectively. On 5 December 2014, the Canadian Environmental Assessment Agency invited comments on the Draft Agreement to establish a Joint Review Panel for the environmental assessment of the Robb Trend Coal Mine Expansion Project. As two of the 11 Aboriginal communities to receive participant funding from the Canadian Environmental Assessment Agency, the ECN and WLFN submit the following comments and recommendations regarding the Draft Terms of Reference.

Comments and Recommendations

The focus of this review is the Draft Terms of Reference (DTOR) of the Joint Review Panel. However, because the scope of factors in the DTOR "includes those specified in the 'Final Terms of Reference' for the preparation of the Environmental Impact Assessment Report for the Coal Valley Resources Inc. Robb Trend Project issued by Alberta Environment and Sustainable Resource Development," we will refer to concerns related to the 'Final Terms of Reference' (FTOR) where we feel these are not properly addressed in the DTOR. The review is organized by subject for the purposes of clarity and coherence.

Principles

- 1. The DTOR states that "The Joint Review Panel shall conduct an assessment of the environmental effects of the Project referred to in the Scope of the Project (Part 1) in a manner consistent with the requirements of CEAA 2012..." The DTOR does not, however, make clear the principles and criteria that will be utilized to guide the assessment review in a manner that is consistent with the Canadian Environmental Assessment Act, particularly with regards to sustainable development and the precautionary principle, both of which are outlined in the CEAA.²
 - **Recommendation 1**: The DTOR should be amended to identify and include the principles and criteria that will guide the assessment review, including but not limited to sustainable development and the precautionary principle, and how these principles and

² Canadian Environmental Assessment Act, 2012, section 4.



¹ Minister of the Environment and Alberta Energy Regulator, 2014, *Draft Agreement To Establish a Joint Review Panel for the Robb Trend Coal Mine Expansion Project*, p. A2.

criteria will be incorporated so as to guide both the assessment and the decision-making processes of the Joint Review Panel.

Cumulative Effects

- 2. The DTOR states that the cumulative effects assessment of the Joint Review Panel "...should focus its consideration of cumulative effects on key valued components." What remains unspecified is who will determine what these key valued components are and what will be the role for Aboriginal groups in their determination? For the cumulative effects assessment to be meaningful for Aboriginal groups, these same must be afforded substantial input into the determination of the key valued components.
 - Recommendation 2: The DTOR should be amended so as to specify the role of Aboriginal groups in the determination of the key valued components that will form the backbone of the cumulative effects assessment.
- 3. Although the DTOR states the Joint Review Panel should focus its consideration upon key valued components and the cumulative effects assessment should provide a description of a pre-Coal Valley Mine case, there remain several methodological issues that require clarification.

First, the DTOR should clearly state that the cumulative effects assessment should be 'valued-component-based' and not 'project-based', in line with current best practices. A proper impact assessment begins not from the project and its impacts upon a specific geographical area in relation to other concurrent projects, but from the affected ecological and sociocultural space itself and how the project contributes to its broader evolution over time, in conjunction with other past, present, and future projects. A 'valued-component-based' assessment allows for a more robust and meaningful analysis of the total magnitude and acceptability of the impact load upon the valued components, rather than the marginal contribution of one project.

Recommendation 3: The cumulative effects assessment section of the DTOR should be revised so as to require explicitly that the cumulative effects assessment be 'valued-component-based' and not 'project based'.

Second, the DTOR should explicitly state that the pre-Coal Valley case is not simply a case provided as part of the assessment but rather represents the baseline from which the present scenarios are to be assessed. Accordingly, the analysis of impacts to key valued components should begin from the pre-Coal Valley case, so that the impacts upon valued components over time and their magnitude and significance can be properly traced. At present, most of the 'pre-development' cases found in cumulative effects assessments consist of a couple of paragraphs

⁴ Noble, Bram, 2010, Cumulative Environmental Effects and the Tyranny of Small Decisions: Towards Meaningful Cumulative Effects Assessment and Management, Prince George: Natural Resources and Environmental Studies Institute; Ehrlich, Alan, "Cumulative Cultural Effects and Reasonably Foreseeable Future Developments in the Upper Thelon Basin, Canada," *Impact Assessment and Project Appraisal* 28(4), 2010, pp. 1-8.



³ Draft Agreement, p. A3.

inserted at the beginning of the assessment that are not subsequently integrated in any meaningful way and the baseline is one of current conditions. As such, most cumulative effects assessments suffer from what one might call the 'shifting baseline phenomenon', where the impacts of past projects upon valued components are wiped from the record, transformed through a methodological sleight-of-hand into the new 'baseline' or normal.

Recommendation 4: The DTOR should be amended so that the required pre-Coal Valley case be considered as the baseline for the entire cumulative effects assessment, and that impacts upon key valued components begin from the pre-Coal Valley scenario forward.

Traditional Land Use, Socioeconomic, and Cultural Impacts

- 4. The DTOR makes reference to the impacts of the project upon Aboriginal rights and interests, but the subsequent discussion includes only the question of Aboriginal rights. It is not clear, then, whether the DTOR is in fact consistent with the requirements of CEAA 2012, which states that environmental impacts include impacts upon Aboriginal peoples in the following categories: (1) current use of lands for traditional purposes; (2) health and socio-economic conditions; (3) physical and cultural heritage; and (4) structures, sites, or things of historical, archaeological, paleontological or architectural significance.⁵
 - **Recommendation 5**: The DTOR should be revised to clarify the adherence of its information requests to the full CEAA 2012 definition of environmental impacts upon Aboriginal peoples.
- 5. There are several methodological points related to the previous. First, the CEAA definition of environmental impacts is appended to its Operational Policy Statement regarding cumulative impact assessments, which strongly suggests that impacts upon Aboriginal peoples, including impacts to traditional land use, culture, and socioeconomic conditions, among others, should be assessed in a cumulative manner. Unfortunately, the DTOR and the FTOR are silent on this issue.
 - Recommendation 6: The DTOR should be revised so that all information regarding the environmental impacts upon Aboriginal peoples be analyzed cumulatively.

Second, CEAA 2012 only considers "current use of lands for traditional purposes" in its assessment of environmental impacts. What is not clear is how CEAA defines "current use". The best-practices definition of current land use is "use within living memory." Moreover, even within the aforementioned best-practices definition, the restriction of information to "current use" would exclude some historic and all future uses of the land associated with Treaty rights.

⁶ Tobias, Terry N., 2009, *Living Proof: The Essential Data-Collection Guide for Indigenous Use-and-Occupancy Map Surveys*, Vancouver: Ecotrust Canada / Union of British Columbia Indian Chiefs, p. 440.



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⁵ Canadian Environmental Assessment Act, 2012, section 5(1)(c).

Recommendation 7: The definition of "current use" with regards to lands for traditional purposes should be specified and complemented by a focus upon historic and future uses as they related to Treaty rights.

Third, there is inadequate guidance in the DTOR and FTOR with regards to the identification of thresholds and the definition of impact significance. The DTOR references the CEAA requirement that assessments shall include consideration of "the significance of the effects", but makes no mention as to how significance is to be determined. These definitional questions are matters of the utmost importance and must include substantial Aboriginal input in order to be meaningful to Aboriginal groups and provide reliable information to the Joint Review Panel.

- Recommendation 8: For the purposes of the assessment of impacts upon Aboriginal groups, the identification of thresholds and the determination of impact significance should be done by Aboriginal groups themselves, or at the very least should contain substantial Aboriginal input and require the approval of Aboriginal groups.
- 6. There is an inadequate consideration of Traditional Ecological Knowledge (TEK) into the assessment process. Neither the DTOR nor the FTOR makes any reference to how TEK will be incorporated into project planning, assessment, monitoring, conservation, and reclamation. Moreover, there is no mention of how TEK will be used in the identification of key wildlife species, despite the socioeconomic and cultural significance of wildlife species to the Aboriginal groups and the exercise of Aboriginal rights in the project area.
 - Recommendation 9: The DTOR should be amended to require the Proponent to describe how TEK will be gathered and considered throughout project design, operation, and reclamation, i.e., through ongoing community consultation, monitoring, conservation, and mitigation plans, and reclamation plan development;
 - **Recommendation 10**: The Proponent should be required to discuss the rationale for its selection of key wildlife species and how TEK either was or will be incorporated into the selection of key wildlife species and the assessment and mitigation of impacts therein.

Consultation

7. The DTOR notes that the Joint Review Panel will receive information from Aboriginal groups, but it does not clarify responsibilities with regards to the provision of information on impacts to Aboriginal rights and interests or the funding for such submissions. The issue of responsibilities for the financing and production of information is of particular importance given the considerable volume of information that would be required to bring the DTOR into alignment with CEAA 2012, including but not limited to reports on impacts to (1) current use of lands for traditional purposes; (2) health and socio-economic conditions; (3) physical and cultural heritage; and (4) structures, sites, or things of historical, archaeological, paleontological or architectural significance. The information requirements are even more substantial if one

⁷ See Canadian Environmental Assessment Act, 2012, section 19(3).



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considers that such reports should be prepared for each potentially affected Aboriginal group and should be cumulative in their assessment of impacts.

The responsibility for the provision of information regarding project impacts upon Aboriginal groups is traditionally that of the project proponent. However, the ECN and WLFN have serious reservations about the adequacy and veracity of the information provided on impacts to Aboriginal rights and interests in the Proponent's EIA submitted to the Provincial regulator in April,2012 and are likely to have similar reservations about any future information provided by the Proponent regarding project impacts upon Aboriginal groups. Studies and reports related to Aboriginal rights and interests should be produced by Aboriginal groups themselves, so that these reflect the values, perspectives, and priorities of Aboriginal peoples, rather than those of the Proponent and its consultants.

As for financing, the Proponent has provided the ECN and WLFN with resources to carry out some work, but these funds were only for a technical review of the Proponent EIA and a Traditional Land Use Study (TLUS). Similarly, the Canadian Environmental Assessment Agency has provided participation funding for 11 Aboriginal groups, including the ECN and WLFN, but these funds are adequate only for the review of the DTOR and the revised Environmental Impact Assessment (EIA), and for participation in the public hearing itself. Any additional information requirements related to project impacts, such as impacts on health and socio-economic conditions, physical and cultural heritage, and structures, sites, or things of historical, archaeological, paleontological or architectural significance should be carried out by Aboriginal groups, where they are willing to do so, supported by adequate funding from the Proponent.

- Recommendation 11: The DTOR should be amended so as to clarify the responsibilities for the financing and production of reports regarding project impacts upon Aboriginal groups, particularly as they relate to impacts upon health and socioeconomic conditions, physical and cultural heritage, and structures, sites, or things of historical, archaeological, paleontological or architectural significance. Where information is required for the Joint Review Panel regarding impacts to Aboriginal rights and interests, the ECN and WLFN contend the Proponent should be clearly required to make available sufficient funds to potentially affected Aboriginal groups that would like to carry out their own studies, so that the Joint Review Panel can base its decision upon the fullest range of information.
- 8. The DTOR does not adequately disaggregate the information requirements for impacts upon Aboriginal rights and interests. The DTOR simply states that information can be received regarding the "nature and scope of asserted or established Aboriginal or Treaty rights, as well as information on the potential adverse environmental effects that the Project may have on asserted or established Aboriginal or Treaty rights." Aboriginal rights and interests, however, cannot and should not be treated as homogenous. The Aboriginal groups impacted by the proposed

⁸ Draft Agreement, p. A2.



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project differ in terms of their rights, interests, strengths, and vulnerabilities, and the information requirements of the DTOR should reflect this.

Recommendation 12: Information regarding the rights and interests of Aboriginal groups impacted by the proposed project should be required on a group-by-group basis, so that the information received by the Joint Review Panel reflects the diversity of experiences and concerns of potentially affected Aboriginal groups.

PROVINCIAL TERMS OF REFERENCE STATEMENT	CLIFF WALLIS P. BIOL. COMMENT
PURPOSE OF THE TERMS OF REFERENCE	
This document identifies for Coal Valley Resources Inc. (CVRI), Aboriginal communities and appropriate stakeholders the information required by government agencies for an Environmental Impact Assessment (EIA) report prepared under the Environmental Protection and Enhancement Act (EPEA) for the Robb Trend Project.	
CVRI's Coal Valley Mine is located approximately 100 km southwest of Edson in the Coal Branch area of Alberta. This area has an extensive coal mining history dating back to the early 20th century when coal extraction was carried out using conventional underground mining methods. Surface mining was introduced into the Coal Branch Area during the 1930's.	
CVRI has been in operation since 1978 employing both truck/shovel and dragline mining methods. Coal reserves within the existing permit area are reaching the end of their expected recovery. Access to additional coal reserves is required to enable the continuation of thermal coal supply to CVRI's customers, the maintenance of the existing workforce and a continuation of the closure activities within the existing depleted areas. CVRI is proposing to add the coal reserves in the Robb Trend Project area as an extension to the existing operations.	
It is expected that the existing infrastructure and workforce will be used to service the proposed Robb Trend Project and that all office and maintenance facilities will be maintained at the present site, however, the proposed project will require additional infrastructure such as new road crossings, transportation and utility corridors to join the Project area to existing mining infrastructure. The coal will be brought from the Project areas to the existing processing plant where it will be cleaned and loaded into trains for transport to market. CVRI plans to maintain the current annual production rates of 4.0 million clean metric tonnes. A preliminary reserve estimate for the Robb Trend Project area indicates there is enough coal to operate for an additional 16 years.	
SCOPE OF THE EIA REPORT	
CVRI shall prepare and submit an EIA Report that examines the environmental and socio-economic impacts of the Robb Trend Project. The EIA Report shall be prepared considering all applicable provincial and federal legislation, codes of practice, guidelines, standards and directives.	
The EIA Report shall be prepared in accordance with these Terms of Reference and the environmental information requirements prescribed under EPEA and associated regulations, and the Canadian Environmental Assessment Act if applicable. The EIA Report will form part of CVRI's application to the Energy Resources Conservation Board (ERCB). An EIA Report summary will also be included as part of the ERCB Application.	

PROVINCIAL TERMS OF REFERENCE STATEMENT	CLIFF WALLIS P. BIOL. COMMENT
The Proponent shall refer to the Guide to Preparing Environmental	
Impact Assessment Reports in Alberta published by Alberta	
Environment (the Guide) and these Terms of Reference when	
preparing the Environmental Impact Assessment report. In any	
case where there is a difference in requirements between the Guide	
and these Terms of Reference, the Terms of Reference shall take	
precedence.	
CONTENT OF THE EIA REPORT	
1 PUBLIC ENGAGEMENT AND ABORIGINAL	
CONSULTATION	
[A]Describe the concerns and issues expressed by the public and the	
actions taken to address those concerns and issues, including how	
public input was incorporated into the Project development, impact	
mitigation and monitoring.	
[B]Describe the concerns and issues expressed by aboriginal	
communities and the actions taken to address those concerns and	
issues, including how aboriginal community input was incorporated	
into the Project development, impact mitigation and monitoring.	
Describe consultation undertaken with aboriginal communities and	
groups with respect to traditional ecological knowledge and	
traditional use of land.	
[C]Describe plans to maintain the public engagement and aboriginal	
consultation process following completion of the EIA report to	
ensure that the public and aboriginal peoples will have an appropriate	
forum for expressing their views on the ongoing development,	
operation and reclamation of the Project.	
2 PROJECT DESCRIPTION	
2.1 The Proponent	
[A]Provide:	
a) a corporate profile; and	
b) the name of the legal entity that will develop, manage and	
operate the Project and hold the operating approvals.	
[B]Describe the Proponent and its history in Alberta, with specific	
reference to existing operations, compliance with its regulatory	
authorizations, proposed operations, mineral resources,	
environmental studies and community involvement.	
2.2 Project Development	
2.2.1 Relationship to the Existing Coal Valley Mine	
[A] Describe the history of development of the overall Coal	
Valley Mine.	
[B] Provide maps showing the EIA study areas for previous	
assessments and the proposed Robb Trend Project Area. Discuss the	
implications of any overlaps in the mapped areas, including the	
confidence CVRI has in the data and assessments from previous	
assessment as they apply to Robb Trend Project and the need for	
additional field studies to fill any gaps.	

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[C] Describe, for each EIA discipline, the lessons learned from the planning, design, construction, operation, mitigation and monitoring at the existing CVRI. [D] Describe, for each EIA discipline, the lessons learned from the public engagement and Aboriginal consultation process and the approvals process for the Coal Valley Mine. [E] Describe how the lessons learned have been incorporated into the design of the Robb Trend Project. 2.2. Project Schedule [A] Provide a development plan that includes: a) the phases of development; b) transportation, infrastructure and access routes; and c) activities associated with each stage of the Project. [B] Provide a schedule outlining the proposed phases of development and the sequence and duration of key project components, including the timing of key steps in the construction, operation, decommissioning and reclamation. [C] Discuss the key factors controlling the schedule, restrictions for conducting certain development activities, and uncertainties. [D] Discuss the implications of a delay in proceeding with the Project, or any phase of the Project, or not going ahead with the Project, or any phase of the Project, or not going ahead with the Project. 2.3 Evaluation of Alternatives [A] Discuss the need for the Project including: a) any alternative means of carrying out the Project that are technically and economically feasible and where applicable indicate their potential environmental impacts; b) a comparison of identified alternatives to the Project or components of the Project and the anticipated impacts of the alternatives. Discuss reasons for not selecting any identified alternatives; and c) potential cooperative development opportunities (e.g., shared infrastructure). [B] Discuss the route or site selection criteria for any linear or other infrastructure development or modification and provide the rationale for selecting the proposed alignment and design. 2.4 Project Processes and Facilities [A] Provide maps and/or drawings of the Project components and ac	PROVINCIAL TERMS OF REFERENCE STATEMENT	CLIFF WALLIS P. BIOL. COMMENT
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g) on-site hydrocarbon storage;	
h) containment structures such as retention ponds and storage ponds;	
i) water wells/intakes, pipelines, and storage structures;	
j) dewatering and water control facilities;	
k) sources of aggregate resources, borrow material and other	
construction material and locations of any stockpiles that will be	
developed;	
l) waste storage, transfer treatment and disposal sites; and	
m) recycling and/or salvage facilities.	
[B]Provide a list of facilities for which locations will be	
determined later.	
[C]Describe the primary resource recovery process, any proposed	
follow-up recovery process and other related processes and process facilities of the Project.	
[D]Discuss the amount and source of energy required for the Project.	
[E]Describe the proposed method to transport product to markets.	
[F]Provide a list of chemical products to be manufactured, processed	
or otherwise used for the Project and describe, in general terms, how	
these products will be stored and managed. Identify products	
containing substances that are:	
a) Canadian Environmental Protection Act, 1999 toxics;	
b) listed on the National Pollutant Release Inventory;	
c) dangerous goods as defined by the federal <i>Transportation</i>	
of Dangerous Goods Act; and	
d) on the Domestic Substances List and categorized as requiring	
further assessment under Canada's Chemicals Management Plan.	
[G]Describe the nature and amount of on-site hydrocarbon storage.	
Discuss containment and other environmental protection measures.	
2.5 Transportation Infrastructure	
[A]Discuss the traffic implications of the Project, including the	
anticipated changes to traffic (e.g., type, volume) on highways.	
Consider other existing and planned uses of the same highway.	
[B]Describe and map the locations of any new road or intersection	
construction, or any improvements to existing roads or intersections,	
related to the development of the Project, from the boundary of the	
Project Area up to and including the highway access point, and	
a) discuss the alternatives and the rationale for selection of	
the preferred alternative;	
b) describe the impacts to local communities of the changes in transportation infrastructure;	
c) provide a proposed schedule for the work;	
d) provide the estimated cost of the work; and	
e) provide a summary of consultation with Alberta Transportation	
and the local authority, including their views on the compatibility of	
the proposed work with their own local or regional infrastructure	
and proposed work what then own room of regional initiasi acture	<u> </u>

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development plans.	
[C]Identify the type, volume, location and availability of road	
construction and reclamation materials for all road construction	
and road improvement work, related to the development of the	
Project, within and outside of the Project Area.	
[D]Describe access corridors needed and/or planned by other	
resource development stakeholders including those responsible for	
Forest Management Areas and other timber quota holders, and	
a) describe how their needs are accommodated to reduce	
overall environmental impact from resource development; and	
b) describe opportunities for cooperation in access development.	
[E]Indicate where Crown land dispositions may be needed for roads or	
other infrastructure for the Project.	
[F]Describe crossings of watercourses or waterbodies required and	
provide example diagrams of each type of crossing. Discuss:	
a) timing;	
b) construction standards or methods; and	
c) environmental protection plans.	
2.6 Land Management	
[A]Provide a description and timing of land clearing activities.	
[B]Provide a timber salvage plan, highlighting end users and	
identifying proposed volumes for removal (by species and year) for	
all stages of the Project.	
[C]Identify any access restrictions including where appropriate,	
measures taken to control access to the Project Area while	
ensuring continued access to adjacent wildland areas.	
[D]Provide a fire control plan highlighting:	
a) measures taken to notify authorities, the public and	
surrounding facilities in the event of a fire;	
b) measures taken to ensure continued access for firefighters	
to adjacent wildland areas;	
c) forest fire prevention, detection, reporting, and suppression	
measures, including proposed fire equipment;	
d) measures for determining the clearing width of power line rights-	
of-way; and	
e) required mitigative measures for areas adjacent to the Project	
Area based on the FireSmart Wildfire Assessment System.	
[E]Describe how land management planning (end land use) initiatives	
in the area may be incorporated into the mine planning process.	
2.7 Air Emissions Management	
[A]Identify the type, volume and source of air emissions for	
the proposed Project:	
a) identify all potential sources of emissions (total particulates, PM10,	
PM2.5, CO (carbon monoxide), NOx (oxides of nitrogen) and SO2	
(sulphur dioxide)) from the Project, including, but not limited to,	
mining activities, coal handling facilities, vehicles, roadways, and	

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other related activities;	
b) describe any mitigation, monitoring and control systems that	
CVRI proposes to reduce potential impacts from emissions;	
c) describe the air management program to address all relevant	
fugitive dust and other emissions;	
d) describe the annual and total greenhouse gas emissions during	
all stages of the project. Identify the primary sources and provide	
examples of calculations; and	
e) describe CVRI's overall greenhouse gas management plans. 2.8 Water Management	
2.8.1 Water Supply	
Describe the water supply requirements for the Project.	
2.8.2 Surface Water	
[A]Describe the surface water management strategy for all stages of	
the project, including:	
a) design factors considered, such as:	
i) site drainage,	
ii) run-on management,	
iii) road and plant run-off,	
iv) erosion/sediment control,	
v) geotechnical stability concerns,	
vi) groundwater and surface water protection,	
vii) muskeg dewatering,	
viii) mine pit dewatering,	
ix) groundwater seepage, and	
x) flood protection;	
b) permanent or temporary alterations or realignments of watercourses, wetlands and other waterbodies;	
c) the pre and post-disturbance alignment and condition of all	
ephemeral and permanent streams, wetlands and waterbodies	
including those created by the Project; and	
d) factors used in the design of water management facilities with	
respect to the Canadian Dam Safety Association Dam Safety Guidelines, including expected flood and flood protection.	
[B]Describe navigable waterways and the results of navigability	
assessment(s) provided by Transport Canada's Navigable Water	
Protection Program for waterways that may be affected by the Project.	
2.8.3 Wastewater Management	
[A]Describe the wastewater management strategy for the	
Project, including:	
a) the source, quantity and composition of wastewater streams	
from each component of the proposed operation (e.g., coal mining,	
coal processing) for all Project conditions, including normal, start-	
up, worst-case and upset conditions;	
b) the design of facilities that will handle, treat and store wastewater	

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streams and the type and quantity of any chemicals used in wastewater treatment, including measures taken in the design to prevent or minimize potential impacts to the environment;	
c) the options for wastewater treatment, including the rationale for selecting the preferred options, including a discussion of options not chosen and the rationale for their exclusion;	
d) the options for the disposal of wastewater in the context of best management practices and best available technologies, including the rationale for choosing the preferred option and the measures taken to prevent impacts on potable groundwater, aquatic ecosystems and vegetation;	
e) discharges to the surrounding watershed from existing and reclaimed sites, including end pit lakes and the management strategy for handling such releases; and	
f) a monitoring plan for wastewater releases, including the rationale used to determine the frequency of sampling and the parameters to be measured.	
2.9 Waste Management	
[A]Characterize and quantify the anticipated dangerous goods, and hazardous, non-hazardous, and recyclable wastes generated by the Project, and:	
a) describe the composition and volume of specific waste streams and discuss how each stream will be managed. Include a discussion of the physical and chemical characteristics of waste streams from the existing Coal Valley projects and explain any differences that are expected for waste streams from the proposed project;	
b) describe the management plan for exploratory drilling wastes, overburden and other mining wastes, as well as any by-products; c) describe how any disposal sites will be designed,	
constructed, operated and decommissioned; and	5
d) describe plans for pollution prevention, waste minimization, recycling, and management to reduce waste quantities over the life of the Project.	
2.10 Conservation and Reclamation	
[A]Outline CVRI's reclamation work to date at its existing operations. Include a discussion of changes that have been made over time to its reclamation programs and why, and any anticipated improvements that will be incorporated into reclamation plans for the Robb Trend Project.	highlight specifically how species at risk, rare plants and plant communities and wetlands have been dealt with in reclamation at the existing operations
[B]Provide a conceptual conservation and reclamation plan for the Project considering:	
a) any existing Conservation and Reclamation Plan; b) existing information with respect to land capability, vegetation, commercial forest land base by commercialism class, forest productivity, recreation, wildlife, aquatic resources, aesthetics,	

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traditional land uses and land use resources;	
c) integration of operations, decommissioning, reclamation	
planning and reclamation activities;	
d) anticipated timeframes for completion of reclamation stages	
and release of lands back to the Crown including an outline of the	
key milestone dates for reclamation and how progress to achieve	
these targets will be measured;	
e) constraints to reclamation such as timing of activities, availability of	
reclamation materials and influence of natural processes and cycles	
including natural disturbance regimes;	
f) post-development land capability with respect to:	
i) self-sustaining topography, drainage and surface watercourses	
representative of the surrounding area,	
ii) existing traditional use with consideration for traditional	
vegetation and wildlife species in the reclaimed landscape,	1
iii) end pit lakes,	
iv) wetlands,	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
v) self-sustaining vegetation communities representative of	
the surrounding area, and	
vi) reforestation and forest productivity;	
g) a revegetation plan for the disturbed terrestrial and aquatic areas;	
h) water supply capability of post-mine landscape;	
i) reclamation material salvage, storage areas and handling procedures;	
j) reclamation material replacement indicating depth, volume and type;	
k) existing and final reclaimed site drainage plans;	
integrating surface and near-surface drainage within the	
Project Area; and	
m) promotion of biodiversity.	
[C]Describe objectives for the function of end-pit lakes and	
describe the specific criteria that will be used to gauge the	
attainment of those objectives.	
[D]Provide a predicted Ecological Land Classification map for the	
post-reclamation landscape.	
[E]Provide a conceptual plan to monitor reclamation performance and	
success (including soils, vegetation, wildlife and aquatic resources).	
Describe criteria that will be used to track vegetation development to	
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demonstrate that reclamation targets will be met, including how sensitive habitat types may be replaced through reclamation.	
[F]Discuss uncertainties related to the conceptual reclamation plan.	
2.11 Regional and Cooperative Initiatives	
[A]Discuss the Proponent's involvement in regional and cooperative	1

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efforts to address environmental and socio-economic issues	
associated with regional development, including:	
a) potential cooperative ventures that the Proponent has initiated, could	
initiate or could develop with other operators and other resource users;	
b) how the Proponent will work to develop and implement	
such cooperative opportunities;	
c) the Proponent's participation in any regional forums;	
d) how the Proponent would design and implement research	
programs; and e) how regional environmental management initiatives will	
be incorporated into the Proponent's management practices.	
3 ENVIRONMENTAL ASSESSMENT	
3.1 Air Quality, Climate and Noise	
3.1.1 Baseline Information	
[A]Discuss the baseline climatic and air quality conditions including:	
a) the type and frequency of meteorological conditions that may	
result in poor air quality; and	
b) appropriate ambient air quality parameters.	
[B]Provide representative baseline noise levels at receptor locations.	
3.1.2 Impact Assessment	
[A]Identify components of the Project that will affect air quality, and:	
a) describe the potential for reduced air quality resulting from the	
Project and discuss any implications of the expected air quality for	
environmental protection and public health;	
b) estimate ground-level concentrations of appropriate air	
quality parameters;	
c) discuss any expected changes to particulate deposition or	
nitrogen deposition patterns; and	
d) discuss interactive effects that may occur resulting from	
co-exposure of a receptor to all emissions.	
[B]Identify stages or elements of the Project that are sensitive to changes or variability in climate parameters, including frequency	
and severity of extreme weather events. Discuss what impacts the	
change to climate parameters may have on elements of the Project	
that are sensitive to climate parameters.	
[C]Summarize the results of the noise assessment conducted for the	
ERCB and:	
a) identify the nearest receptor used in the assessment; and	7 4 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
b) discuss the design, construction and operational factors to be	***************************************
incorporated into the Project to comply with the ERCB's Directive 38:	
Noise Control.	
[D]Describe how air quality and noise impacts resulting from	
the Project will be mitigated.	
[E]Describe the residual air quality of the Project and the	
Proponent's plans to manage those impacts.	

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3.2 Hydrogeology	
3.2.1 Baseline Information	
[A]Provide an overview of the existing geologic and hydrogeologic setting from the ground surface down to, and including, the coal zones, and if applicable, to the base of any deeper strata that would be potentially impacted by mining. Document any new hydrogeological investigations, including methodology and results, undertaken as part of the EIA, and:	
a) present regional and Project Area geology to illustrate depth, thickness and spatial extent of lithology, material (behavior) properties, stratigraphic units and structural features such as faults and fractures;	
b) present regional and Project Area hydrogeology describing:	
i) the major aquifers, aquitards and aquicludes (Quaternary and bedrock), their spatial distribution, properties, hydraulic connections between aquifers, hydraulic heads, gradients, groundwater flow directions and velocities. Include maps and cross sections with the location of wells and/or control points,	
ii) the chemistry of groundwater aquifers including baseline concentrations of major ions, metals and hydrocarbon indicators,	
iii)the potential discharge zones, potential recharge zones and sources, areas of groundwater-surface water interaction and areas of	
Quaternary aquifer-bedrock groundwater interaction, iv) water well development and groundwater use, including	
an inventory of groundwater users,	
v) the recharge potential for Quaternary aquifers, and vi) potential hydraulic connection between coal zones and	
other aquifers resulting from Project operations.	
3.2.2 Impact Assessment	
[A]Describe Project components and activities that have the potential to affect groundwater resource quantity and quality at all stages of the Project.	
[B]Describe the nature and significance of the potential Project impacts on groundwater with respect to:	
a) inter-relationship between groundwater and surface water in terms of surface water quantity and quality;	
b) implications for terrestrial or riparian vegetation, wildlife and aquatic resources including wetlands;	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
c) changes in groundwater quality and quantity; d) conflicts with other groundwater users, and proposed resolutions	
to these conflicts; e) potential implications of seasonal variations; and	

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f) groundwater withdrawal for Project operations, including	
any expected alterations in the groundwater flow regime during	
and following Project operations.	
[C]Describe programs to manage and protect groundwater	
resources including:	
a) the early detection of potential contamination; and	
b) groundwater remediation options in the event that adverse	
effects are detected.	
3.3 Hydrology	
3.3.1 Baseline Information	
[A]Describe and map the surface hydrology. Include flow regimes of	
streams in the Project Area.	
[B]Provide surface flow baseline data, including:	
a) characteristics of the average stream flow regime including mean	
monthly and annual flows and run-off depths (water yields), seasonal	
variation and year-to-year variability for all basins; and	
b) estimates of peak flows and low flows for all watercourses.	
3.3.2 Impact Assessment	
[A]Discuss changes to watersheds, including surface and near-surface	
drainage conditions, potential flow impediment, and potential	
changes in open-water surface areas caused by the Project.	
[B]Describe the extent of hydrological changes that will result	
from disturbances to groundwater and surface water movement:	
a) include changes to the quantity of surface flow, water levels and	
channel regime in watercourses (during low, average and peak flows)	
and water levels in waterbodies;	
b) assess the potential impact of any alterations in flow on the	
hydrology and identify all temporary and permanent alterations,	
channel realignments, disturbances or surface water withdrawals; c) discuss both the Project and cumulative effect of these changes	
on hydrology (e.g., timing, volume, peak and minimum flow rates,	
river regime and lake levels), including the significance of effects for	
downstream watercourses; and	
d) identify any potential erosion problems in watercourses	
resulting from the Project.	
[C]Discuss changes in sedimentation patterns in receiving	
waters resulting from the Project.	
DDescribe impacts on other surface water users resulting from	
the Project. Identify any potential water use conflicts.	
[E]Describe potential downstream impact if surface water is removed.	
[F]Discuss the impact of low flow conditions and in-stream flow needs	
on water supply and water and wastewater management strategies.	
[G]Discuss how potential impacts of temporary and permanent	
roads on wetland hydrology will be minimized and mitigated.	
[H]Describe mitigation measures to address impacts during all	
stages of the Project including:	

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a) alteration in flow regimes;	
b) potential water use conflicts; and	
c) increased sediment loadings.	
3.4 Surface Water Quality	
3.4.1 Baseline Information	
[A]Describe the baseline water quality of watercourses and	
waterbodies. Discuss the effects of seasonal variations, flow and	00 A A A A A A A A A A A A A A A A A A
other factors on water quality.	
3.4.2 Impact Assessment	
[A]Identify Project components that may influence or impact surface water quality.	
[B]Describe the potential impacts of the Project on surface water quality:	
a) discuss any changes in water quality resulting from the	
Project including impacts on drinking water quality;	
b) discuss the significance of any impacts on water quality and	
implications to aquatic resources (e.g., biota, biodiversity and habitat);	
c) discuss seasonal variation and potential impacts on surface	
water quality; and	
d) discuss the effect of changes in surface runoff or groundwater	
discharge on water quality in surface waterbodies.	
[C]Describe proposed mitigation measures to maintain surface water	
quality at all stages of the Project.	
3.5 Aquatic Ecology	
3.5.1 Baseline Information	
[A] Describe and map the fish, fish habitat and aquatic resources,	
(e.g., aquatic and benthic invertebrates) of the lakes, rivers, streams,	
ephemeral water bodies and other waters. Describe the species	
composition, distribution, relative abundance, movements and general	
life history parameters of fish resources. Also identify any species that are:	
a) listed as "at Risk, may be at Risk and Sensitive" in the Status	
of Alberta Species (Alberta Sustainable Resources Development);	
b) listed in schedule 1 of the federal <i>Species at Risk Act</i> ; and	
c) listed as "at Risk" by COSEWIC.	
[B] Describe and map existing critical or sensitive areas such as	
spawning, rearing and overwintering habitats, and seasonal habitat	
use including migration and spawning routes.	
[C] Describe the current and potential use of fish resources	
by Aboriginal, sport or commercial fisheries.	
[D] Identify the key aquatic indicators that CVRI used to assess the	
Project's impacts. Discuss the rationale for their selection.	
3.5.2 Impact Assessment	
[A] Describe the potential impacts to fish, fish habitat, and other	
aquatic resources (e.g., stream alterations and changes to substrate	

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conditions, water quality and quantity) considering:	
a) fish tainting, survival of eggs and fry, chronic or acute health	
effects, and increased stress on fish populations from release of	
contaminants, sedimentation, flow alterations, temperature and habitat	
changes;	
b) potential impacts on riparian areas that could affect	
aquatic biological resources and productivity;	
c) the potential for increased fishing pressures in the region that could	
arise from the increased workforce and improved access resulting from	
the Project. Identify the implications on the fish resource and describe	
any mitigation strategies that might be planned to minimize these	
impacts, including any plans to restrict employee and visitor access;	
d) changes to benthic invertebrate communities that may affect	
food quality and availability for fish; and	
e) the potential for increased fragmentation of aquatic habitat.	
	
[B] Discuss the design, construction and operational factors to	
be incorporated into the Project to minimize impacts to fish and	
fish habitat and protect aquatic resources.	
[C] Identify plans proposed to offset any loss in the productivity of	
fish habitat. Indicate how environmental protection plans address	
applicable provincial and federal policies on fish habitat including the	
development of a "No Net Loss" fish habitat objective.	
[D] Describe the effects of any surface water withdrawals	
considered including cumulative effects on fish, fish habitat and	
other aquatic resources.	
3.6 Vegetation	
3.6.1 Baseline Information	
[A] Describe and map vegetation communities for each ecosite phase.	
[B] Describe and map wetlands and discuss their distribution	
and relative abundance.	
[C] Identify, verify and map the relative abundance of species of	Include all species of
rare plants and the ecosite phases where they are found.	conservation concern, e.g.
	species tracking lists AND
	rare plant communities at
	ACIMS (Alberta
	Conservation Information
	Management System)
[D] Discuss the potential of each ecosite phase to support rare plant	rare plant species AND
species, plants for traditional, medicinal and cultural purposes, old	rare plant communities;
growth forests and communities of limited distribution. Consider their	plants and plant
importance for local and regional habitat, sustained forest growth, rare	communities for
plant habitat and the hydrologic regime.	traditional, medicinal
[E] Describe the regional relevance of landscape units that	desirional, medieniai
are identified as rare.	
[F] Provide Timber Productivity Ratings for both the Project Area and	
the Local Study Area, including identification of productive forested,	

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non-productive forested and non-forested lands.	
3.6.2 Impact Assessment	
[A] Identify the amount of vegetation and wetlands to be disturbed for all stages of the Project.	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
[B] Discuss any potential impacts the Project may have on rare plants or endangered species.	
[C] Discuss temporary (include timeframe) and permanent changes to vegetation and wetland communities.	
[D] Describe the regional impact of any ecosite phase to be removed.	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
[E] Discuss from an ecological perspective, the expected timelines for establishment and recovery of vegetative communities and the expected differences in the resulting vegetative community structures. [F] Provide a predicted Ecological Land Classification map that shows the reclaimed vegetation.	
[G] Discuss the impact of any loss of wetlands, including how the loss will affect land use.	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
[H] Provide a mitigation strategy that will minimize Project impacts addressing:	
a) mitigation of the adverse effects of site clearing on rare plants, plant communities and plants for traditional, medicinal and cultural purposes. Identify any setbacks proposed around environmentally-sensitive areas such as surface waterbodies, riparian areas and wetlands; and	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
b) measures and techniques that will be used to minimize the impact of loss of wetlands on land use.	Discuss in context of Alberta Wetland Policy (Government of Alberta 2013) guidance: avoidance, minimization, replacement
[I] Discuss weeds and non-native invasive species and describe how these species will be assessed and controlled prior to and during operation and reclamation.	

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[J] Discuss at multiple spatial scales, the predicted changes to upland,	
riparian and wetland habitats resulting from increased fragmentation.	
3.7 Wildlife	
3.7.1 Baseline Information	
[A]Describe and map existing wildlife resources (amphibians,	
reptiles, birds and terrestrial and aquatic mammals) and their use and	
potential use of habitats.	
[B]Identify key indicator species and discuss the rationale for their	
selection. Identify composition, distribution, relative abundance,	
seasonal movements, movement corridors, habitat requirements,	
key habitat areas, and general life history. Address those species:	
a) listed as "at Risk, May be at Risk and Sensitive" in <i>The Status</i>	
of Alberta Species (Alberta Sustainable Resource Development);	
b) listed in Schedule 1 of the federal <i>Species at Risk Act</i> ; and	
c) listed as "at risk" by COSEWIC.	
[C]Describe, quantify and map all existing habitat disturbance	
(including exploration activities) and identify those habitat	
disturbances that are related to existing and approved Project	
operations.	
3.7.2 Impact Assessment	
[A]Describe Project components and activities that may affect wildlife and wildlife habitat.	
[B]Describe and assess the potential impacts of the Project on key	
indicator species and relate those impacts to wildlife populations	
and wildlife habitats, addressing:	
a) how the Project will affect wildlife relative abundance, movement	
patterns, distribution and recruitment into regional populations for all	
stages of the Project;	
b) how improved or altered access may affect wildlife including	
potential obstruction of daily and seasonal movements, increased	
vehicle-wildlife collisions, and increased hunting pressures;	
c) how increased habitat fragmentation may affect wildlife	
considering edge effects, the availability of core habitat, and the	
influence of linear features and infrastructure on wildlife movements	
and other population parameters;	
d) the spatial and temporal changes to habitat availability and habitat	
effectiveness (types, quality, quantity, diversity and distribution);	
e) potential impacts on wildlife resulting from changes to air and water	
quality, including both acute and chronic effects to animal health;	
f) the resilience and recovery capabilities of wildlife populations	
and habitats to disturbance; and	
g) the potential for the Project Area to be returned to its existing	
state with respect to wildlife populations and their habitats.	
[C]Comment on the availability of species for traditional use	
considering habitat loss, habitat avoidance, vehicle-wildlife collisions,	
increased non-aboriginal hunting pressure and other Project related	

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impacts on wildlife populations.	
[D]Provide a strategy and mitigation plan to minimize impacts on	
wildlife and wildlife habitat for all stages of the Project and to return	
productive wildlife habitat to the area, considering:	
a) consistency of the plan with applicable regional, provincial	
and federal wildlife habitat objectives and policies;	
b) a schedule for the return of habitat capability to areas impacted by the Project;	
c) the use of setbacks to protect riparian habitats, interconnectivity	
of such habitat and the unimpeded movement by wildlife species	
using that habitat and the use of buffers (e.g. treed buffers) to reduce	
visual or noise impacts on wildlife;	
d) anticipated access controls or other management strategies	
to protect wildlife during and after Project operations;	
e) measures to prevent habituation of wildlife to minimize the	
potential for human-wildlife encounters and consequent destruction of	
wildlife, including any staff training program, fencing camps, garbage	
containment measures or regular follow-up;	
f) measures to mitigate habitat fragmentation considering impacts	
to habitat connectivity and wildlife movements resulting from linear	
features (e.g., above ground pipelines, roads etc.) and other Project	
infrastructure and activities; and	
g) measures to mitigate mortality risks to wildlife from roads or	
other hazards related to Project infrastructure.	
3.8 Biodiversity	
3.8.1 Baseline Information	
[A]Describe the terrestrial and aquatic biodiversity metrics that will	
be used to characterize the existing ecosystems and probable impacts	
of the Project, and:	
a) describe the process and rationale used to select biotic and abiotic	
indicators for biodiversity within selected taxonomic groups;	
b) determine the relative abundance of species in each ecosite phase;	
c) provide species locations, lists and summaries of observed and	
estimated species richness and evenness for each ecosite phase;	
d) provide a measure of biodiversity on baseline sites that	
are representative of the proposed reclamation ecosites; and	
e) rank each ecological unit for biodiversity potential. Describe	
the techniques used in the ranking process.	
3.8.2 Impact Assessment	
[A] Describe the metrics used to assess the probable impacts of the	
Project. Discuss the contribution of the Project to any anticipated	
changes in regional biodiversity and the potential impact to local and regional ecosystems.	
[B] Identify and evaluate the extent of potential effects of	
fragmentation on biodiversity that may result from the Project. Discuss	
those effects at all relevant scales (from site specific to landscape	
mose effects at an felevant seales (from site specific to landscape	

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level).	
[C] Discuss the mitigation measures proposed to minimize	
any anticipated changes in regional biodiversity.	
3.9 Terrain and Soils	
3.9.1 Baseline Information	
Provide descriptions and maps of the terrain and soils	
conditions, including:	
a) surficial geology and topography;	
b) soil types and their distribution. Provide an ecological context to	
the soil resource by supplying a soil survey report and maps to Survey	
Intensity Level 2 for the Project Area;	
c) suitability and availability of soils within the Project Area	
for reclamation;	
d) soils that could be affected by the Project; and	
e) descriptions and locations of erosion sensitive soils.	
3.9.2 Impact Assessment	
[A] Describe Project activities and other related issues that could affect	
soil quality (e.g., compaction, contaminants) and:	
a) indicate the amount (ha) of surface disturbance from mine,	
overburden disposal, reclamation material stockpiles, infrastructure	
(e.g., pipelines, power lines, access roads), aggregate and borrow sites,	
construction camps, waste disposal and other construction and	
operation activities;	
b) describe potential sources of soil contamination;	
c) describe the impact of the Project on soil types and	
reclamation suitability and the approximate volume of soil	
materials for reclamation. Discuss any constraints or limitations to	
achieving vegetation/habitat reclamation based on anticipated soil	
conditions (e.g., compaction, contaminants, salinity, soil moisture,	
nutrient depletion, erosion, etc.); and	
d) discuss the potential for soil erosion during the life of the Project.	
[B] Discuss the potential impact of the Project (including	
blasting, excavation and tunneling) on slope stability.	
[C] Discuss the potential impacts caused by the mulching and	
storage of woody debris considering, but not limited to vulnerability	
to fire, degradation of soil quality, increased footprint, etc.	
[D] Provide a mitigation plan including:	
a) possible measures to minimize surface disturbance including the	
use of existing clearings for the Project;	
b) possible actions to mitigate effects of any constraint or limitation	
to habitat reclamation such as compaction, contaminants, salinity, soil	
moisture, erosion, nutrient regime, etc.;	
c) possible actions to address impacts to land capability; and	4.00 · · · · · · · · · · · · · · · · · ·
d) any other measures to reduce or eliminate the potential impacts	
that the Project may have on soil capability and/or quality.	
3.10 Land Use	

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3.10.1 Baseline Information	
[A] Describe and map the current land uses in the study area,	
including all Crown land and Crown Reservations (Holding	
Reservation, Protective Notation, and Consultative Notation).	
[B] Indicate where Crown Land dispositions will be needed for	
roads or other infrastructure for the Project.	
[C] Identify and map unique sites or special features in the local and	
regional study areas such as Parks and Protected Areas, Heritage	
Rivers, Historic Sites, Environmentally Significant Areas, culturally	
significant sites and other designations (World Heritage Sites, Ramsar	
Sites, Internationally Important Bird Areas, etc).	
[D] Describe and map land clearing activities, showing the timing	
of the activities.	
[E] Describe the status of timber harvesting arrangements,	
including species and timing.	
3.10.2 Impact Assessment	
[A] Identify the potential impact of the Project on land uses, including:	
a) impacts to unique sites or special features;	
b) impacts caused by changes in public access arising from linear	
development, including secondary effects related to increased hunter,	
angler and other recreational access, decreased access to traditional use	
sites and facilitated predator movement;	
c) potential impacts to aggregate reserves that may be located on land under CVRI's control;	
d) the impact of development and reclamation on commercial	
forest harvesting and fire management in the study Area;	
e) the amount of commercial and non-commercial forest land base	
that will be disturbed by the Project, including the Timber Productivity	
Ratings for the Project area. Compare the pre-disturbance and	
reclaimed percentages and distribution of all forested communities in	
the Project Area;	
f) how the Project impacts Annual Allowable Cuts and quotas within the Forest Management Agreement area;	
g) the potential impact on existing land uses of anticipated changes	
(type and extent) to the pre-disturbance topography, elevation and	
drainage pattern within the Project Area; and	
h) impacts of the Project on public access, regional recreational	
activities, aboriginal land use and other land uses during and after	
development activities.	
[B] Discuss possible mitigation strategies to address impacts on	
land use including:	
a) access management during and after Project operations;	
b) the process for addressing the needs of other land users in both	
the local and regional study areas; and	
c) how potentially-affected aggregate reserves will be salvaged and	
stockpiled with input provided by Alberta Sustainable Resource	
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Development.	
4 HISTORIC RESOURCES	
Describe the Historic Resource Impact Assessment (HRIA) work done	
for the Project, and provide a schedule for any future work.	
Describe the implications of the findings of the HRIA work on	
Project design and scheduling.	
Describe any Project uncertainties arising from the need for	
future HRIA work.	
5 TRADITIONAL ECOLOGICAL KNOWLEDGE AND	
LAND USE	
[A] Provide:	
a) a map and description of traditional use areas including fishing,	
hunting, trapping, nutritional or medicinal plant harvesting, and	
cultural use by affected Aboriginal peoples (if the aboriginal	
community or group is willing to have these locations disclosed);	
b) a map of cabin sites, spiritual sites, graves and other traditional	
use sites considered historic resources under the <i>Historical Resources</i>	
Act (if the aboriginal community or group is willing to have these	
locations disclosed), as well as traditional trails and resource activity	
patterns; and	
c) a discussion of:	
i) access to traditional lands in the Project Area during all stages of	
the Project,	
ii) the vegetation and wildlife used for traditional, food,	
ceremonial, medicinal and other purposes, and	
iii) aboriginal views on land reclamation.	
[B] Determine the impact of the Project on traditional uses and	
culture and identify possible mitigation strategies.	
6 PUBLIC HEALTH AND SAFETY ASSESSMENT	
[A]Describe any features or characteristics of the Project that may	
have implications for public health or the delivery of regional health	
services that are different from the existing Coal Valley Mine.	
Determine whether there may be implications for public health arising	
from the Project that are different from the existing Coal Valley Mine.	
Specifically:	
a) assess the potential health implications of the compounds that will	
be released to the environment from the Project in relation to exposure	
limits established to prevent acute and chronic adverse effects on	
human health;	
b) provide the data, exposure modeling calculations, and describe the	
methods the Proponent used to assess impacts of the Project on human	
health and safety;	
c) provide information, including chemical analyses and modeling	
results, on samples of selected environmental media (e.g., soil, water,	
air, vegetation, wild game, etc.) used in the assessment;	
d) discuss the potential for changes to water quality, air quality and	

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soil quality to increase human exposure to contaminants taking	
into consideration all Project activities;	
e) identify the human health impact of the potential contamination	
of country foods and natural food sources taking into consideration	
all Project activities;	
f) document any health concerns raised by stakeholders	
during consultation on the Project;	
g) document any health concerns identified by aboriginal communities	
or groups resulting from impacts of existing development and of the	
Project specifically on their traditional lifestyle and include an	
aboriginal receptor type in the assessment;	
h) assess the cumulative human health impacts to receptors,	
including First Nations and Métis receptors;	
i) as appropriate, describe anticipated follow-up work, including	
regional cooperative studies. Discuss how such work will be	
implemented and coordinated with ongoing air, soil and water quality	
initiatives;	
j) describe the potential health impacts resulting from higher	
regional traffic volumes and the increased risk of accidental leaks	
and spills; and	
k) discuss mitigation strategies to minimize the potential impact of	
the Project on human health.	
[B]Describe those aspects of the Project that may have implications	
for public safety. Determine whether there may be implications for	
public safety arising from the Project. Specifically:	
a) describe the CVRI's emergency response plan, including public	
notification protocol and safety procedures, to minimize adverse	
environmental effects, including emergency reporting procedures for	
spill containment and management;	
b) document any safety concerns raised by stakeholders	
during consultation on the Project;	
c) describe how local residents will be contacted during an emergency	
and the type of information that will be communicated to them;	
d) describe the existing agreements with area municipalities or	
industry groups such as safety cooperatives, emergency response	
associations, regional mutual aid programs and municipal emergency	
response agencies;	
e) describe the potential safety impacts resulting from higher	
regional traffic volumes; and	
f) discuss mitigation plans to ensure workforce and public safety for	
all stages of the Project. Include prevention and safety measures for	
wildfire occurrences, accidental release or spill of chemicals to the	-
environment and failures of structures retaining water or fluid wastes.	
7 SOCIO-ECONOMIC ASSESSMENT	
7.1 Baseline Information	
[A]Describe the existing socio-economic conditions in the region and	<u> </u>

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[B]Describe factors that may affect existing socio-economic conditions including: a) population changes; b) CVRI's policies and programs regarding the use of regional and Alberta goods and services; c) workforce requirements for the Project, including a description of when peak activity periods will occur; and d) planned accommodations for the workforce for all stages of he Project. 7.2 Impact Assessment [A] Describe the socio-economic impacts of construction and operation of the Project, including: a) impacts related to:). housing, i) recreational activities. ii) hunting, fishing, trapping and gathering, and iv) effects on First Nations and Métis (e.g., traditional land use and social and cultural implications); b) estimated total Project cost, including a breakdown for engineering and project management, equipment and materials, and labour for both construction and operation stages. Indicate the percentage of expenditures expected to occur in the region, Alberta, Canada outside of Alberta, and outside of Canada; c) impacts of the Project on the availability of affordable housing and the quality of health care services. Provide a summary of any discussions that have taken place with the local municipalities and the local environmental public health office of Alberta Health Services concerning housing availability and health care services respectively; d) the impact on local and regional infrastructure and community services, including consideration of municipal "hard services", education/training services, social services, urban and regional recreation services, law enforcement and emergency services; and e) municipal growth pressures as they relate to the Project and the need for additional Crown land to meet these needs. [B] Discuss options for mitigating impacts including: a) CVRI's policies and programs regarding the use of regional and Alberta goods and services; b) plans to work with First Nations and Métis communities and groups and other local residents and businesses regarding employment, training n	PROVINCIAL TERMS OF REFERENCE STATEMENT	CLIFF WALLIS P. BIOL. COMMENT
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PROVINCIAL TERMS OF REFERENCE STATEMENT	CLIFF WALLIS P. BIOL. COMMENT
services; and	
e) strategies to mitigate socio-economic concerns raised by the	
local municipality and other stakeholders in the region.	
8 RESIDUAL IMPACTS	
[A] Describe the residual impacts of the Project following	
implementation of CVRI's mitigation measures and discuss plans	
to manage those impacts.	
9 MONITORING AND ADAPTIVE MANAGMENT	
[A]Describe CVRI's current and proposed local and regional	
monitoring programs with respect to Project impacts from:	
a) Source air emissions, including fugitive emissions;	
b) Wastewater treatment and release;	
c) Hazardous and non-hazardous waste storage, transfer and treatment.	
[B]Describe the monitoring programs proposed to measure	
the effectiveness of mitigation plans.	
[C]Discuss how monitoring data will be disseminated to the	
public, Aboriginal communities and other interested parties.	
[D]Discuss how the results of monitoring programs and publically	
available monitoring will be integrated with CVRI's	
environmental management system.	
[E]Describe adaptive management plans that minimize the impact of	
the Project. Describe the flexibility built into the Project to	
accommodate future modifications required as a result of any	
changes in environmental standards, limits and guidelines, or as a	
result of findings from Project specific monitoring programs.	

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