

ALBERTA TRANSPORTATION

**TERMS OF REFERENCE
FOR ENVIRONMENTAL ASSESSMENT TO MEET
CEAA REQUIREMENTS**

June 2011

SCOPE OF ASSESSMENT

The work requires that an Environmental Assessment (EA) for the construction and operations phases be completed to the satisfaction of Alberta Transportation while meeting the requirements of the *Proponents Guide for Environmental Assessments (June 2006)* as issued by Transport Canada. The EA must provide sufficient detail to support application to relevant regulators in order to secure approvals/authorizations. Preparation of all relevant applications for signature by the Department is considered to be within the scope of work. The Consultant will be required to facilitate meetings with relevant regulators.

These terms of reference are intended for those projects that are on the five year construction program and that have any federal triggers under the *Canadian Environmental Assessment Act* and/or require provincial environmental approvals.

Note The environmental effects of the construction and operation of any future utilities in the right-of-way will be assessed as part of the future utility applications (power lines/ gas lines).*

The following format is to be specifically followed for the purposes of this work.

ENVIRONMENTAL ASSESSMENT REQUIREMENTS

EXECUTIVE SUMMARY

Briefly discuss the location and nature of the project and, for each of the Valued Ecosystem Components (VEC's), the following:

- the impact of the project;
- the mitigative measures to be implemented to offset the impacts; and
- the significance of the positive and/or negative residual effects that will remain after the implementation of mitigation measures.

PROJECT DESCRIPTION

Include the following:

- the nature of the project;
- the name and proposed location of the project;
- the name and address of the proponent including one or two contact persons; and
- the identification of federal/provincial involvement (including any funding) and information related to authorizations and approvals that may be required.

PROJECT INFORMATION

Include the following:

- site (right-of-way) location (UTM coordinates, geographic positioning, etc.);
- dimensions of the right-of-way and any associated project lands;
- a map indicating the location of the project including the project site and the site layout of the main components of the project;
- details of the main components of the project, including any permanent and temporary structures;
- proximity to residential and other urban areas, protected areas, and Indian reserves;
- general construction methods, materials, and equipment to be used for each activity;
- excavation requirements (general quantity of material moved);
- where gravel and road-building material will be obtained, if required for the road, and what associated projects will be proposed (i.e. gravel pits, storage yards);
- any requirements for off-site land use;
- methods to minimize disturbance to other land users;
- any seasonal decommissioning activities that will occur throughout the construction and operation phases of the project;
- a listing of all project activities and schedule for each activity;
- potential accidents and malfunctions that may arise as a result of the project;
- waste management during the construction and operations phases;
- on-site material management of all wastes and hazardous materials and provide a conceptual spill contingency plan; and
- traffic forecasts, type of traffic and roadway standards.

STUDY AREA

The local study area for the project consists of a 300m wide corridor centered over the roadway center-line (150m each side or for interchanges 150m radius) that will capture direct and indirect project effects. In some instances (e.g. public consultation, cumulative effects, noise, etc.) there may be a need to expand the study area. This will be considered within the scope of the work to be performed.

METHODOLOGY

- Describe the effects of the projects environmental impacts considering Direction, Extent, Magnitude, Duration, Reversibility, Confidence, and Frequency for each VEC. The table below is to be utilized.

VEC	Potential Project Effect	Mitigation Measures	Effect Characteristic	Residual Effect
e.g. Wetlands	Decrease in wetland habitat	Compensation for all disturbed wetlands as required to satisfy the Provincial	<ul style="list-style-type: none"> • Direction • Extent • Magnitude 	<ul style="list-style-type: none"> • Positive/Negative • Local/Subregional/Regional • Negligible/Minor/

		Water Act and achieve no-net-loss of function.	<ul style="list-style-type: none"> • Duration • Confidence • Reversibility • Frequency 	Moderate/ Major <ul style="list-style-type: none"> • Short-term/Long-term • Predictable/Uncertain • Reversible/ Not Reversible • Isolated/Rare/Frequent
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- For each VEC describe all assumptions made and any data deficiencies and discuss the work completed to fulfil the knowledge deficiencies.

VALUED ECOSYSTEM COMPONENTS

The following VEC’s are required to be assessed within the EA. For each relevant VEC identify vulnerable areas that will be impacted by road salts and provide mitigative measures.

NOTE: not all projects will require the assessment of all VEC’s listed below however it is expected that in the proposal each of the VEC’s will be addressed to the appropriate extent including Not Applicable (N/A) or identified as a deletable item in the resource budget.

LANDFORMS AND SOILS

Existing Conditions

- Characterization of soils within the study area, including an appropriate level of field sampling and the mapped results.
- Characterize the landforms in the project area.
- Describe the methodology used to collect data.

Impacts

- Identify physical changes, erosion potential, soil compaction, changes in soil structure and organic matter content as a result of the project.
- Identify potential pollutants and their impacts to soil.

Mitigation Measures

- Discuss the mitigation measures, including reclamation activities, to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures.

Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. EPEA, Soil Conservation Act, etc.).

VEGETATION

Existing Conditions

- Document the results of both early and late season rare plant investigations.
- Describe and quantify the vegetation cover types in the study area.
- Describe the methodology used to collect data.

Impacts

- Describe the clearing requirements and methods to be used (quantify area to be cleared/vegetation types).
- Discuss how the removal of vegetation for construction would affect vegetative communities in the project area.
- Discuss how operations of the project would affect vegetative communities including potential changes in species composition.
- Discuss how weeds/invasive plants might impact on native plant species in the project area.
- Discuss the effects on riparian plant communities.

Mitigation Measures

- Discuss the mitigation measures, including reclamation activities, to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against baseline conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. SARA, the Provincial At Risk species, Weed Control Act, etc.).

WILDLIFE

Existing Conditions

- Characterize wildlife and wildlife habitat including a list of the status and abundance of Provincial At Risk and Federal SARA wildlife species known, or expected to occur during some portion of the year within the project area.
- Document wildlife movements.
- Describe the methodology used to collect data.

Impacts

- Describe impacts to wildlife habitat as a result of the project, including habitat corridor alteration.
- Discuss potential wildlife highway mortality.
- Discuss impacts to Provincial At Risk and Federal SARA species.
- Discuss the impact of noise on wildlife during construction and operations.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions; and
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders;
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. Migratory Birds Convention Act, SARA, the Provincial At Risk species, etc.).

WETLANDS

Existing Conditions

- Document the location and size of wetlands.
- Identify wetland type and condition (where applicable use Stuart and Kantrud).
- Identify condition of upland zones surrounding the wetland and list any activity occurring in the upland zone (this will include 30 year historical review using aerial photography for directly impacted wetlands and must highlight the wettest/driest years over that timeframe).
- Characterize the flora and fauna of the wetland.
- Evaluate wetland function and ecosystem components that contribute to the integrity of the wetland.
- Describe the methodology used to collect data.

Impacts

- Discuss how wetland function and ecosystem components that contribute to the integrity of the wetland will be affected by the project both during the construction and operations phases.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. This will include identifying opportunities to restore or create wetlands. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. SARA, the Provincial At Risk species, Draft Provincial Wetland Policy, Federal Policy on Wetland Conservation, Alberta Water Act, etc.).

FISHERIES

Existing Conditions

- Characterize fish and fish habitat.
- Identify federal/provincial rare, endangered, or threatened fish species.
- Describe the methodology used to collect data.

Impacts

- Describe the impacts to fish and fish habitat resources during the construction and operations phases.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Discuss the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

HYDROLOGY

Existing Conditions

- Characterize surface water resources (quantity and flow patterns).
- Describe drainage characteristics for the project area and the effect of project drainage to receiving water courses.
- Assess changes in runoff rates and volumes before, during and after construction of the project.
- Describe the methodology used to collect data.

Impacts

- Describe the impacts to surface water resources as a result of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and/or negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

STORMWATER

Existing Conditions/Modelling

- Briefly describe the watershed characteristics in which the project will occur (e.g. location, size, land use/nature of development).
- Describe existing storm water infrastructure, including capacities.
- Describe the methodology used to collect data.

Impacts

- Summarize, from the Stormwater Drainage Plan (SDP), the storm water quality enhancement facilities designed to capture runoff and sedimentation (location, size, conveyance structures, storage capacity, catchment areas, etc. include maps and figures from the SDP).
- Discuss flows into and out of the drainage facilities with respect to pre-development runoff rates and allowable release rates during design events.
- Describe anticipated sedimentation removal performance (discuss in-terms of particle size and percent removal) during design events.
- Briefly describe the methodology used in the SDP.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project (e.g. forebay, vegetated swales, hazardous spill control, passive spill control, automated spill control measures). All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions; and
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

Regulatory Requirements

Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

WATER QUALITY

Existing Conditions

- Characterize surface water quality (measure temperature, TSS, turbidity, pH, DO, salinity, hydrocarbons, and other typical storm water constituents only);
- Describe the methodology used to collect data.

Impacts

- Describe the impacts to surface water resources as a result of the project.
- Assess changes in runoff rates and volumes before, during and after construction of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects against relevant management

objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

GROUND WATER

Existing Conditions

- Characterize groundwater resources using results from well testing and AENV well water databases.
- Describe quantity (well yields/well depth/water level) and quality (TSS/hydrocarbons/salinity) of wells tested.
- Provide data on any community or private surface water and groundwater sources.
- Describe the methodology used to collect data.

Impacts

- Discuss impacts to ground water resources and drinking water supplies as a result of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts to groundwater resources caused by the project.
- Discuss mitigation for adversely affected potable water sources as a result of the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions; and
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify

unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

NAVIGATION

Existing Conditions

- Characterize navigation within the study area, these efforts shall include referencing INFTRA navigation maps and boating club information, as required.

Impacts

- Identify impacts to navigation resources during the construction and operations phases.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects tot relevant management objectives.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. NWPA).

AIR QUALITY

Existing Conditions

- Characterize existing airshed conditions.
- In urban areas describe the nature of tailpipe emissions based on projected traffic volumes. Use a current vehicle emissions model to estimate emissions on a per vehicle or per kilometre basis and utilize traffic information (from EMMEII) to determine expected fleet emissions.
- Describe the nature of other sources of direct emissions (e.g. asphalt plants).
- Characterize fugitive emissions (e.g. storage piles, dust from road construction).

- Describe the methodology used to collect data.

Impacts

- In urban areas estimate peak air quality concentrations and conduct dispersion modelling independently for each project segment.
- Discuss the impact of direct and fugitive emissions on surrounding residential, agricultural, recreational, or other sensitive areas as a result of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against baseline conditions; and
- In urban areas compare the consequences of the residual effects to relevant management objectives (e.g. Alberta Ambient Air Quality Guidelines).

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

Regulatory Requirements

- In urban areas compare predicted concentrations to appropriate air quality objectives (Opening Day and Ultimate configurations).
- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. EPEA, Alberta Ambient Air Quality Guidelines).

NOISE IMPACTS IN URBAN AREAS

Existing Conditions

- Provide noise contour maps for the projected volumes for Opening Day and Ultimate configurations. Provide an explanation of any assumptions used in compiling this information.
- Characterize noise levels during operations, including 24 hour Leq for both Opening Day and Ultimate configurations.
- Describe the methodology used to collect data.

Impacts

- Assess noise impacts through the monitoring of selected noise sensitive receiver sites including the impacts on surrounding residential or other sensitive areas as a result of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the nature of all mitigation measures that must be implemented for the project with respect to Alberta Infrastructure and Transportation's document *Noise Attenuation Guidelines for Provincial Highways under Provincial Jurisdiction within Cities and Urban Areas*.

SOCIO-ECONOMIC

Existing Conditions

- Characterize current land and resource uses.
- Provide data on the number of compulsory acquisition of residences and properties.
- Describe the methodology used to collect data.

Impacts

- Evaluate the social and cultural impacts of the project on the communities located within and adjacent to the study area.
- Discuss the type of illumination to be used on the project as well as the potential effects of illumination on affected stakeholders.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and/or negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects to relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.
- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked.

CULTURAL RESOURCES

Existing Conditions

- Complete the Statement of Justification for Historical Resources Act Requirements Form by a qualified archaeologist in order to proceed with a HRIA or to secure regulatory clearance.
- Assess the level of significance of the cultural resource sites along or adjacent to the proposed project in a manner that accurately reflects the range and complexity of human history represented in the project area.
- Describe the methodology used to collect data.

Impacts

- Assess the significance of the impacts to cultural resources as a result of the project.

Mitigation Measures

- Discuss the mitigation measures to be implemented to offset the impacts caused by the project including outlining protective measures to be taken to prevent disturbance to known sites. All information related to mitigation measures must be entered into the table identified in the Methodology section of this Terms Of Reference.

Residual Effects

- Discuss the positive and negative residual effects that will remain after the implementation of mitigation measures against existing conditions.
- Compare the consequences of the residual effects tot relevant management objectives.

Monitoring

- Describe the monitoring activities that the proponent will undertake to verify and manage environmental impacts and to confirm effectiveness of mitigative measures. Discuss the mechanisms for adjusting programs should monitoring identify unanticipated consequences including steps to communicate unanticipated environmental conditions to regulators and relevant stakeholders.

- Propose whether a follow-up program is required where the residual effects after mitigation are unknown.

Regulatory Requirements

- Describe the relationship between the project's activities and the various federal and provincial authorizations and approvals processes that may be invoked (e.g. the *Alberta Historical Resources Act*).

CLIMATE

- Identify elements of the Project that could contribute to changes and variability in climate.
- Identify effects of the environment on the project (e.g. flooding, drought, wind, snow, and existing contamination).
- Describe the application of Project mitigation measures to reduce these impacts.

The following components are mandatory for inclusion into the environmental assessment:

CUMULATIVE ENVIRONMENTAL EFFECTS

Assess the cumulative effects of the proposed project and associated infrastructure based on an analysis of their residual impacts combined with impacts from other sources, as follows:

- Identify past and existing developments and their impact (positive/negative) on the environment.
- Discuss current and reasonably foreseeable projects that may contribute to cumulative effects.
- Describe suitable mitigation measures for the cumulative effects (as appropriate)
- Determine how the residual impacts of the cumulative effects will impact on the environment.

PUBLIC CONSULTATION

Identify:

- the public consultation schedule;
- consultation meetings with regulatory authorities;
- information provided to the public; and
- the EA will describe any concerns that have been raised about the proposed project and how these concerns are being addressed.

FIRST NATIONS CONSULTATION

Identify:

- the need to consult with First Nations based on the Government of Alberta's First Nations consultation policies and guidelines;
- the First Nations consulted and their proximity to the project;
- regulatory triggers related to First Nations interests;
- the consultation schedule;
- the information provided to the First Nation;
- concerns that have been raised about the proposed project and how these concerns are being addressed.

ALIGNMENT SHEETS

Create a series of alignment sheets that indicate the approximate location of the environmental sensitivities identified within the EA for each of the VEC's along the alignment of the project. For each of the identified environmental sensitive areas include the site specific mitigation measures to be incorporated. The maps must include: a scale no greater than 1:10,000, a key map, north arrow, a legend, and be produced on 11" x 17" paper. Two sets of maps are to be produced for each copy of the EA.

ENVIRONMENTAL PROTECTION PLAN (EPP) FOR CONSTRUCTION

Alberta Transportation's EPP template is to be included as part of the EA document and it to be the basis of mitigation measures proposed in the environmental assessment. Any additional mitigative measures specific to the Project should be attached to the EPP template as an appendix. The EPP template (including any required appendix) and alignment sheets are to be included together in the separately bound copies.

ENVIRONMENTAL CONSULTANT UPDATES

The Consultant will be required to meet with Alberta Transportation on a monthly basis to specifically discuss the EA. The purpose of these meetings will be to provide the Department with a comprehensive update of the status of each of the VEC's identified above to ensure the Department is satisfied with the direction of the Consultants work. The Consultant will provide draft material for review immediately upon request by the Department.

REFERENCES

The EA will include a list of references used at the end of the report.