

Pacific Booker Minerals Inc.

Morrison Copper/Gold Mining Project

File No. 14675-20 (Smithers, British Columbia Office)

Mine Number: 0200503

Permit No: Mx-2-134

Morrison Deposit (Erin1) Claim No. 383070

Northing 6119200, Easting 670700, UTM Zone 09

NTS Map Sheet #093M.01W

Latitude 55° 1903' N. Longitude 126° 3231' W.

**Draft Terms of Reference for an Application for an
Environmental Assessment Certificate under the British
Columbia Environmental Assessment Act SBC 2002,
Chapter 43.**

Submitted to:

British Columbia Government Environmental Assessment Office
P.O. Box 9426 Stn Prov Govt
2nd Floor, 836 Yates Street
Victoria, British Columbia
V8W 9V1

October 14, 2005

PREFACE

This section will provide the following general statements of context and purpose for the development of the Application document:

1. Reference to the purpose and intent of conducting an EA for the Project, as related to sustainability commitments.
2. Indication that the Project is subject to review under the BCEAA pursuant to a request by the Proponent and an Order issued under Section 10 of the BCEAA.
3. Indication that the Project is subject to review under the CEAA - note the federal agencies involved in the review.
4. Indication that the Application has been developed pursuant to the TOR approved by EAO, and any other relevant instructions provided in the Order under the Section 11 Order.
5. General indication of the agencies, First Nations and other parties who have been involved in the development of the Application.
6. Provision of a Table of Concordance which cross-references the information presented in the Application with the information requirements identified in the TOR.

EXECUTIVE SUMMARY

This section will concisely identify issues, impacts, and consultations, recommended mitigation measures and conclusions in a succinct and summary manner.

1. A concise description of all key facets of the Project suitable for use as a stand-alone document.
2. A general outline of key impact issues and proposed mitigation strategies and measures.
3. A succinct description of information distribution activities, including government agency, First Nations and public consultation measures undertaken.
4. A summary of issues raised and solutions suggested, during these consultations.

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Proponent Identification.....	1
1.1.1	Proponent Information	1
1.1.2	Name of Company Representative	1
1.2	General Application Background.....	1
1.2.1	Structural Components of the Application.....	1
1.2.2	Project Planning and Project Review History to Date	1
1.2.3	Legal Orders or Agreements	2
1.3	Project Overview.....	2
1.3.1	Description of the Project and its Purpose	2
1.3.2	Description of the Project’s Location, Size and Main Features.....	2
1.3.3	Identification and Listing of Project elements	2
1.3.4	Land Use	2
1.3.5	Project Location and Maps.....	3
1.3.6	Estimation of the Labour Force.....	3
1.3.7	Estimated Capital Cost.....	3
1.3.8	Project Benefits	3
1.4	Regulatory Framework	3
1.4.1	Provincial and Federal Legislative and Policy Requirements.....	3
1.4.1.1	Provincial Legislation	3
1.4.1.2	Federal Legislation.....	4
1.4.2	Licenses and Permits for Project Construction/Operation	4
1.4.3	EA Certification and Permitting.....	5
2.0	INFORMATION DISTRIBUTION AND CONSULTATION	6
2.1	Consultation Overview	6
2.1.1	Consultation	6
2.1.2	Consultation Agreement, First Nations.....	6
2.1.3	List of Significant Events and Measures.....	6
2.2	Pre-Application Consultation.....	6
2.2.1	Consultation, Pre-application Stage	6
2.2.2	Consultations with Public and other Key Stakeholders	7
2.2.3	Consultations, Government Representatives	7
2.2.4	Consultations, First Nations	7
2.2.5	Issues, Public, First Nations and Government Agencies	7
2.2.6	Issue Resolution, Pre-application.....	7
2.3	Consultation Planned During Application Review	8
2.3.1	First Nations, Consultation Programs	8
2.3.2	Issue Resolution, Application Review	8
2.3.3	Proposed Consultation Program, Government Agencies.....	8
3.0	PROJECT DESCRIPTION AND SCOPE OF PROJECT.....	9
3.1	Project Background and Rationale.....	9
3.1.1	Project History	9
3.1.2	Rationale for the Project and Description of the Project Objectives	9
3.1.3	Sustainability Principles.....	10
3.2	Project Location and Mapping	10
3.2.1	Project Location	10
3.2.2	Maps of Regional Setting and Project Components/Activities.....	10

3.2.3	Site Plans and Project Location	10
3.2.4	Designated Environmentally Sensitive Areas/Cultural Sites	10
3.3	Project Facilities.....	10
3.3.1	On-site Project Components and On-site/Off-site Infrastructure.....	10
3.3.2	Selection of On-site/Off-site Facilities	11
3.3.3	Project Location, Alternative Site Consideration.....	11
3.4	Construction-Phase Activities.....	11
3.4.1	Description of Construction Activities.....	11
3.4.2	Delivery of Services, Construction Phase and Associated Logistics....	12
3.5	Operations-Phase Activities.....	12
3.5.1	Operations-Phase Activities.....	12
3.5.2	Delivery of Services, Operations Phase and Associated Logistics	13
3.6	Decommissioning Activities	13
3.6.1	Expected Lifetime of the Project or of Temporary Components.....	13
3.6.2	Decommissioning or Reclamation plan(s).....	13
3.7	Alternative Means of Carrying Out the Project	14
4.0	SCOPE OF ASSESSMENT AND STUDY AREAS	16
4.1	Scope of Assessment.....	16
4.2	Study Area Boundaries	17
4.2.1	Base Line Studies and Impact Assessment Time Frame	17
4.2.2	Characterization and Assessment of First Nations Issues.....	17
5.0	PROJECT SETTING AND CHARACTERISTICS	18
5.1	Geophysical Environment.....	19
5.1.1	Physiography and Topography	19
5.1.2	Soils and Geology	19
5.1.3	Hydrogeology and Groundwater.....	19
5.1.4	Natural Hazards.....	20
5.2	Atmospheric Environment	20
5.2.1	Climate	20
5.2.2	Wind.....	21
5.2.3	Precipitation	21
5.2.4	Air Quality	21
5.3	Aquatic Environment and Surface Hydrology.....	21
5.3.1	Aquatic Habitats.....	21
5.3.2	Aquatic Fauna	21
5.3.3	Aquatic Vegetation.....	21
5.3.4	Surface Hydrology	21
5.3.5	Surface Water Quality.....	22
5.4	Terrestrial Environment and Wildlife	22
5.4.1	Biophysical Information.....	22
5.4.2	Wildlife	22
5.4.3	Threatened and Endangered Species.....	23
5.5	Land Use Context.....	23
5.5.1	Land Use Regime.....	23
5.5.2	Current Land Status/Use	23
5.5.3	Aesthetics	23
5.5.4	Proposed Land Use	23
5.5.5	Land Acquisition.....	23
5.6	Socio-Community Conditions.....	23
5.6.1	Socio-Community Profile and Population Demographics.....	23
5.6.2	Housing	24

5.6.3	Transportation	24
5.6.4	Services	24
5.7	Socio-Economic Conditions.....	24
5.7.1	Local and Regional Economy	25
5.7.2	Labour Supply	25
5.7.3	Businesses	25
5.8	Public Health.....	25
5.8.1	Health Profile	25
5.8.2	Public Health Parameters	25
5.9	Navigable Waters Issues	26
5.9.1	Identification of Waterways to be affected by the Project.....	26
5.9.2	Photographs, Proposed Crossing Sites	26
5.9.3	GPS Position, Proposed Crossing Points or Fill Locations	26
5.9.4	Flood Level, Structures Crossing Waterways.....	26
5.9.5	Waterways Usage.....	26
5.10	First Nations Setting.....	26
5.10.1	First Nations, Affected by the Proposed Project.....	26
5.10.2	Socio-community, Socio-economic and Public Health Profile	26
5.10.3	Traditional Use, Project Area Lands and Resources.....	27
5.10.4	Culturally Modified Trees, Rock Paintings, Trails, Legendary Land Features, Wildlife and Vegetation Species	27
5.10.5	First Nations, Land Use Plans or Planning Objectives	27
5.10.6	First Nations, Views on Aboriginal Rights and Title.....	27
5.10.7	Identified Archaeological Resources	27
6.0	ASSESSMENT OF PROJECT IMPACTS, MITIGATION REQUIREMENTS AND RESIDUAL EFFECTS	28
6.1	Impact Assessment Methodology	28
6.2	Effects Assessment, Project Construction.....	29
6.3	Effects Assessment, Project Operation and Maintenance.....	29
6.4	Effects Assessment, Project Decommissioning	30
6.5	Potential Project Effects on First Nations Issues	31
6.5.1	Areas Where the Project Could Directly Effect First Nations	31
6.5.1.1	First Nations, Components of the Project setting	31
6.5.1.2	Summary of impact assessment findings	31
6.5.1.3	Documentation Agreements with First Nations.....	31
6.6	Accidents and Malfunctions.....	31
6.6.1	Identification of the potential for accidents or malfunctions	31
6.6.2	Proposed Mitigation Measures or Contingency Plans	31
6.6.3	Commitment to an Environmental Management Plan	31
6.7	Effects of the Environment on the Project	32
6.7.1	Climatic factors relevant to project success	32
6.7.2	Description of Potential Effects of Extreme Events	32
6.8	Cumulative Environment Effects.....	32
6.9	Effects on Navigable Waters.....	32
6.10	Summary of Project Impacts and Mitigation Measures.....	32
6.10.1	Summary of Impact Findings.....	32
6.10.2	Results of Cumulative Effects.....	32
6.10.3	Significance Levels of Residual Impacts	33
6.11	Summary of Commitments	33
6.11.1	Summary “table of proposed commitments”	33
6.11.2	Significant Impact Management Commitments.....	33

7.0	ENVIRONMENTAL MANAGEMENT PROGRAM	34
7.1	Overview of EMPs Proposed for the Project	34
7.2	EMPs, to Minimize Potential Effects on First Nations	35
7.3	EMPs, First Nations concerns	35
7.3.1	Archaeological Resources Monitoring Plan.....	35
7.3.2	Traditional Use Monitoring Plan	35
7.3.3	Other plans	36
7.4	Monitoring, Archaeological and First Nations Issues.....	36
8.0	CONCLUSION	37
8.1	Impact Assessment.....	37
9.0	LIST OF REFERENCES AND SUPPORTING DOCUMENTATION..	38
9.1	Consultations, Public, First Nations and Government Agencies	38
9.2	Records, Meetings and Discussion Topics and Relevant Agreements	38
9.3	List of Enclosures.....	38

LIST OF ABBREVIATIONS

A list of Abbreviations will be provided in the Application. It will be based on the following list developed for the Terms of Reference document.

ARD	Acid Rock Drainage
BCEAA	BC Environmental Assessment Act
BCEAO	BC Environmental Assessment Office
BCRISC	BC Research Information Standards Committee
CEA	Cumulative Effects Assessment
CEAA	Canadian Environmental Assessment Act
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
DFO	Federal Department of Fisheries and Oceans
DTOR	Draft Terms of Reference
EA	Environmental Impact Assessment
EC	Environment Canada
EMPs	Environmental Protection Plans
EMPR	BC Ministry of Energy, Mines and Petroleum Resources
GPS	Global Positioning System
HADD	Habitat Alteration, Disruption and Destruction
LBN	Lake Babine Nation
MLRMP	Morice Land and Resource Management Plan
MOF	Ministry of Forests
MSRM	Ministry of Sustainable Resource Management
MWLAP	BC Ministry of Water Land and Air Protection
NHA	Northern Health Authority
NRCan	Natural Resources Canada
SARA	Species at Risk Act
VECs	Valued Ecosystem Components
VSECs	Valued Socio-Ecosystem Components

1.0 INTRODUCTION

This section will provide contextual background information on the Project and the Proponent, and on the regulatory regime, which applies to the Project.

1.1 Proponent Identification

1.1.1 Proponent Information

The EA will provide the proponent information (i.e., name, address, phone, fax, email) including company incorporation, structure and Management accountability for:

1. the design, construction, operation and decommissioning of the Project,
2. the implementation of mitigation measures and monitoring,
3. the management of potential adverse effects,
4. policies and commitment to protecting the environment and preventing
5. how the Proponent will ensure that its contractors and sub-contractors or minimizing the effects of the Project, including any sustainability principles that have guided Project planning, will comply with its policies and commitments, and
6. relations with First Nations, as well as its record of honouring commitments on environmental and socio-economic matters in the event of a planned or premature mine closure.

1.1.2 Name of Company Representative

The EA will provide the name of the Company representative managing the Project (i.e. name, address, phone, fax, email) including information on the representative company history and qualifications.

1.2 General Application Background

1.2.1 Structural Components of the Application

The EA will provide an Introduction to the Application and its structure.

1.2.2 Project Planning and Project Review History to Date

The EA will provide a summary of Project planning and review history to date.

1.2.3 Legal Orders or Agreements

The EA will provide a summary of any Legal Orders or Agreements that apply to the Review of the Project.

1.3 Project Overview

1.3.1 Description of the Project and its Purpose

The EA will provide a description of the Project, its purpose and scheduling. Maps at appropriate scales to indicate both the regional setting and the layout of Project components and activities will be included.

1.3.2 Description of the Project's Location, Size and Main Features

The EA will provide a concise description of the geographic setting in which the Project is proposed to take place and include maps at appropriate scales to illustrate the regional setting and clearly locate the Project within that setting. Site plans, sketches and photographs will be used as necessary to indicate key Project components, site features and activities. This description will explain the interrelationships between the physical and biological setting and the people, communities and land use, including First Nations people and communities.

1.3.3 Identification and Listing of Project elements

The EA will identify and list all Project elements.

1.3.4 Land Use

The EA will describe the current land use context and address how proposed Project activities will interact with the objectives and strategies established in the British Columbia Morice Land and Resource Management Plan. The EA will describe the land uses in the Project area, including resource development, recreational use, fishing and registered hunting, trapping and guiding. The EA will describe third party tenures adjacent to the Project.

The EA will also identify the claimed traditional territories of First Nations in the vicinity of the proposed Project, and briefly summarize available information on the First Nations interests in, and use of, the area potentially affected by Project development.

1.3.5 Project Location and Maps

The EA will provide maps at appropriate scales to indicate both the regional setting and the layout of Project components and activities.

1.3.6 Estimation of the Labour Force

The EA will identify labour force requirements (direct jobs only) during construction and operation.

1.3.7 Estimated Capital Cost

The EA will provide the estimated capital cost (including decommissioning cost) of the Project.

1.3.8 Project Benefits

The EA will identify Project benefits through job creation (direct and indirect), purchasing, training programs and transferable skills, contracting opportunities and tax payments and the potential to create significant positive economic benefits for the Bulkley-Nechako Region and beyond.

1.4 Regulatory Framework

1.4.1 Provincial and Federal Legislative and Policy Requirements

The EA will provide a summary of federal, provincial and local government legislation and regulations, which form the underlying regulatory framework for the Project.

1.4.1.1 Provincial Legislation

Relevant statutes may include most (if not all) of the following, and others may also apply:

1. Mines Act (including the Health, Safety and Reclamation Code and the Mineral Exploration Code),
2. Environment and Land Use Act,
3. Environment Management Act,
4. Forest Act (including the Forest Practices Code),
5. Health Act,
6. Health, Safety and Reclamation Code for Mines in British Columbia 1997,
7. Heritage Conservation Act,
8. Land Act,
9. Waste Management Act and Regulations,
10. Water Act,

11. Wildlife Act,
12. Highway Act, and
13. Heritage Conservation Act.

1.4.1.2 Federal Legislation

Relevant statutes may include most (if not all) of the following, and others may also apply:

1. Canada - British Columbia Agreement for Environmental Assessment Cooperation (2004),
2. Canadian Environmental Assessment Act (CEAA),
3. Canadian Environmental Protection Act (1999),
4. Explosives Act,
5. Transportation of Dangerous Goods Act,
6. Fisheries Act,
7. Metal Mining Effluent Regulations (2002),
8. Migratory Birds Convention Act,
9. Navigable Waters Protection Act,
10. Species at Risk Act.

1.4.2 Licenses and Permits for Project Construction/Operation

The EA will identify permits, licenses and authorizations that are potentially needed for the Project. These may include:

1. Mines Act Permit, pursuant to Section 10 of the BC Mines Act (EMPR),
2. Permit pursuant to the Mining Right of Way Act (EMPR),
3. Authorization under Section 35 of the federal Fisheries Act (DFO),
4. Permit pursuant to the Fisheries Act, Metal Mining Effluent Regulations (DFO) (EC),
5. Permit pursuant to the Explosives Act (for explosives base factory site) (NR Can),
6. Alteration Permit under Section 12 of the Heritage Conservation Act (TSA),
7. Water Licenses, pursuant to the Water Act (for storage and diversion of water (MWLAP),
8. Notifications of in-stream works, pursuant to Section 9 of the Water Act (MWLAP),
9. Effluent Permit, Refuse Permit, Air Permit, Fuel Storage Permit and Special Waste Permit pursuant to the Environmental Management Act (MWLAP),
10. Permit pursuant to the Wildlife Act (for incursion into the Todagin Wildlife Management Area (MWLAP),

11. Burning Permit, pursuant to the Forest and Range Practices Act (MOF),
12. License to Cut, pursuant to the Forest Act (MOF),
13. Special Use Permit, pursuant to the Forest Practices Code of British Columbia Act (MOF),
14. License of Occupation, pursuant to the Lands Act (for power line right of way, quarries, camps and staging areas) (MWLAP),
15. Permits pursuant to the Health Act and Food Premise Regulation, Industrial Camps Health Regulation, Sanitary Regulations and Sewage Disposal Regulation (NHA), and
16. Permits pursuant to the Drinking Water Protection Act (NHA).

1.4.3 EA Certification and Permitting

The Proponent will request for concurrent EA Certification and Permitting under the BCEAA.

2.0 INFORMATION DISTRIBUTION AND CONSULTATION

This section will summarize the Proponent's past and proposed consultation (approach and associated activities), in accordance with the consultation provisions of the Section 11 Order, once issued. The public consultation measures will also be in compliance with the "Public Consultation Policy Regulation" BC Reg 373/2002.

2.1 Consultation Overview

2.1.1 Consultation

The EA will describe consultation efforts undertaken with the public, First Nations, government agencies and local governments at the pre-application stage, both before and after entering the EA process. The EA will describe the objectives of these consultations, the methods used, issues raised during these consultation, and the ways in which the Proponent has addressed these issues, using a concordance table.

2.1.2 Consultation Agreement, First Nations

The EA will describe any consultation agreements reached with First Nations that are likely to be affected by the Project, especially those with claimed traditional territory in the vicinity of the Project. This description will include a summary of the history of the Proponent's relationship with First Nations with respect to the pre-application stage of the Project. The EA will describe the objectives of First Nations consultation agreements, the methods used, issues raised during these consultations and the ways in which the Proponent has addressed these issues.

2.1.3 List of Significant Events and Measures

The EA will describe any significant events, and summary of results.

2.2 Pre-Application Consultation

2.2.1 Consultation, Pre-application Stage

The EA will outline the consultation undertaken during the pre-application stage, covering both the preparation of the Terms of Reference and the Application. The EA will describe the objectives of these consultations, the methods used, issues raised during these consultation and the ways in which the Proponent has addressed these issues.

2.2.2 Consultations with Public and other Key Stakeholders

The EA will describe the consultation efforts undertaken during the pre-application stage with the general public and key stakeholders (e.g., guide outfitters, trappers, forestry, mining and outdoor recreational interests, and other tenure holders) prior to the Proponent submitting the EA. This description will identify the objectives of the consultation, outline the methods used, and summarize the issues raised by the public and key stakeholders, and the ways in which the Proponent has addressed these issues.

2.2.3 Consultations, Government Representatives

The EA will describe consultation efforts undertaken during the pre-application stage with provincial and federal government agencies and local governments. The EA will describe the objectives of these consultations, the methods used, issues raised during these consultation and the ways in which the Proponent has addressed these issues.

2.2.4 Consultations, First Nations

The EA will describe consultation undertaken during the pre-application stage with First Nations that are likely to be affected by the Project, especially those with claimed traditional territory in the vicinity of the Project. This description will include a summary of the history of the Proponent's relationship with First Nations with respect to the Morrison Project. The EA will describe the objectives of First Nations consultation, the methods used, issues raised during these consultations and the ways in which the Proponent has addressed these issues.

2.2.5 Issues, Public, First Nations and Government Agencies

The EA will provide a summary of responses provided regarding issues raised by the public, First Nations and government agencies.

2.2.6 Issue Resolution, Pre-application

The EA will describe the process for attempting to resolve outstanding issues identified and give an indication of the degree to which the issues raised have been addressed and the respective views of the Proponent and other parties to review those issues (e.g. resolved or unresolved)

2.3 Consultation Planned During Application Review

2.3.1 First Nations, Consultation Programs

The EA will describe the public and First Nations consultation programs proposed for the application review stage, following screening and acceptance of the Application for formal review.

2.3.2 Issue Resolution, Application Review

The EA will detail the proposed process for attempting to resolve outstanding issues during the Application review.

2.3.3 Proposed Consultation Program, Government Agencies

The EA will detail the proposed program for consultation with government agencies during the Application review.

3.0 PROJECT DESCRIPTION AND SCOPE OF PROJECT

This section will describe both the Project facilities and the activities associated with them for all relevant stages of project development - construction, operation/maintenance and decommissioning/reclamation in sufficient detail to allow a meaningful assessment of potential Project effects.

All key Project components and activities will be identified and clearly explained. The level of detail needed for different Project components may vary, reflecting the varying challenges posed in managing their effects, if adverse. The description will include a timeline for all phases of the Project and a discussion of all Project components, infrastructure and other facilities including:

1. geology and mineral resources of the Morrison deposit,
2. mining process including pit design, explosives use, equipment, mining schedule and dewatering,
3. metallurgy and processing,
4. water management plan for the mill, tailings facility and camp and other mine development areas (e.g. waste dumps, pits, stockpiles, etc.),
5. waste management - waste rock management plan; tailings management including dam design, seepage control, diversions operations and supernatant quality; hazardous waste management and non-hazardous waste management,
6. geotechnical stability, including programs to evaluate foundation conditions, laboratory and field testing to characterize foundation soils and rock conditions, and design criteria and considerations for dumps, haul roads, pit wall and dam stability during all phases of mine life, and
7. roads, ancillary facilities, conveyors power-lines and other infrastructure (e.g. camp, etc.)

3.1 Project Background and Rationale

3.1.1 Project History

The EA will provide information on the project history.

3.1.2 Rationale for the Project and Description of the Project Objectives

The EA will provide the rationale for the Project and description of the Project objectives.

3.1.3 Sustainability Principles

The EA will provide a description of the Sustainability Principles that have guided Project planning.

3.2 Project Location and Mapping

3.2.1 Project Location

The EA will provide the Project location including the longitude and latitude of the site.

3.2.2 Maps of Regional Setting and Project Components/Activities

The EA will provide maps, at appropriate scales, of the regional setting and the layout of Project components and activities to illustrate the regional setting and clearly locate the Project within that setting.

3.2.3 Site Plans and Project Location

The EA will provide site plans/sketches/photographs with Project location, site features and activities on maps.

3.2.4 Designated Environmentally Sensitive Areas/Cultural Sites

The EA will identify Project proximity to designated environmentally sensitive areas or cultural sites.

3.3 Project Facilities

3.3.1 On-site Project Components and On-site/Off-site Infrastructure

The EA will provide a description of proposed on-site Project components and associated on-site and off-site infrastructure and other facilities to be developed for the Project. A summary of results of studies leading to selection of sites and any consideration of alternative locations for the Project will be provided. The EA will include a scaled site map of the main Project components and describe the following:

1. access road to the Project site,
2. haul roads within the pit and to the waste dumps,
3. primary crusher,
4. ore stockpiles,
5. waste rock dump,
6. tailings delivery system and storage facility,

7. dams containing any or all of water, tailings or waste rock,
8. water management structures,
9. fuel depot,
10. explosives storage and manufacturing plant, if required,
11. borrow material sites (quarries) and storage sites for salvaged topsoil and overburden,
12. maintenance shops and equipment letdown areas,
13. electrical transmission line,
14. construction staging areas,
15. ancillary facilities, conveyors and power lines, and
16. camp facilities.

3.3.2 Selection of On-site/Off-site Facilities

The EA will provide an analysis of the alternative means of carrying out the Project that are technically and economically feasible and the environmental effects of any such alternative means. Alternative means may include, for example, alternative sites, alternative extraction methods, alternative tailings and waste rock management options, alternative transportation modes and routes, and other reclamation and decommissioning options.

3.3.3 Project Location, Alternative Site Consideration

The EA will provide a Summary of any consideration of alternative locations for the Project or Project components, identifying factors that led to the selection of preferred option.

3.4 Construction-Phase Activities

3.4.1 Description of Construction Activities

The EA will describe the construction phase of the Project and any relevant site clearing and preparation, including the following:

1. surveying and siting operations,
2. site access roads,
3. delivery of heavy equipment,
4. drilling, stripping of vegetation, and clearing and grubbing,
5. blasting (handling procedures, frequency and size, pre-blast surveys, weather condition considerations),
6. topsoil and overburden storage (location and dimensions),
7. sewage treatment and waste management systems,
8. dangerous goods storage areas,
9. dams, watercourse crossings and wetland alteration,

10. dewatering (e.g. timing, water quality, rate of water release, associated works, etc.),
11. excavation, transport and placement of soils in dam construction,
12. structures (e.g., camp, offices and warehouses) and utilities;
13. estimate of construction scheduling,
14. erosion and sedimentation control measures, and
15. risk management (e.g., contingency plans for uncontrolled release of substances, emergency response plans).

3.4.2 Delivery of Services, Construction Phase and Associated Logistics

The EA will describe the intended approaches for delivery of services required for the construction phase and associated logistics including, but not limited to, water supply, storm water runoff management, waste disposal, material requirements, energy supply, construction-stage transportation/traffic, construction workers' accommodation and/or food services (if any), etc.

3.5 Operations-Phase Activities

3.5.1 Operations-Phase Activities

The EA will describe the operations phase of the Project and any relevant site clearing and preparation, including the following:

1. mining plans with annual average and maximum production rates,
2. drilling and blasting (handling procedures, frequency and size, pre-blast surveys, weather condition considerations),
3. mining process including pit design, explosives use, equipment, schedule and dewatering,
4. metallurgy and processing including crushing, grinding and flotation circuit, reagent use,
5. water management plan for the mill, tailings facility and camp and all mine development areas (i.e., pits, waste dump and stockpiles) including detailed water budget with effluent treatment, water recycling and dewatering activities,
6. conceptual wastewater treatment plans for control of any/all suspended solids, acidity, heavy metals and sulphate, off-site runoff, tailings supernatant, and seepage from dams or waste rock dumps,
7. waste rock management plan based on the material characterization work used to determine metal leaching/acid rock drainage potential, and with description of placement methods for sub-aerial and underwater disposal,
8. tailings management plan, based on geochemical characterization work, and supported by dam design, seepage control, diversions operations and supernatant quality,

9. hazardous waste listing, handling, storage and disposal, including management of blasting chemicals/residues,
10. non-hazardous waste (other than waste rock and tailings) handling and disposal,
11. sewage, water treatment and disposal,
12. stockpiling,
13. dangerous goods use and waste dangerous goods management,
14. transportation (modes, routes, load size and frequency),
15. environmental controls for noise and dust, and
16. risk management (contingency plans for uncontrolled release of substances and emergency response plans).

3.5.2 Delivery of Services, Operations Phase and Associated Logistics

The EA will describe the intended approaches for delivery of services required for the operations phase and associated logistics including, but not limited to, water supply, storm water runoff management, waste disposal, energy supply, operations-stage transportation, any special visitor and/or operating workforce services, etc.

3.6 Decommissioning Activities

3.6.1 Expected Lifetime of the Project or of Temporary Components

The EA will provide details on the lifetime of the Project and of temporary components.

3.6.2 Decommissioning or Reclamation plan(s)

The EA will describe the decommissioning phase of the Project, including a conceptual-level decommissioning and reclamation plan which sets out plans for reclamation as mining advances, plans for decommissioning the mine (removal of equipment and structures) and details of the long-term management of dam structures. The EA will describe the long-term objective for future use of the property following decommissioning.

The Proponent will include a conceptual reclamation and closure plan for the property at the end of its forecasted planned mine life. The conceptual plan will be based on the requirements of the Application Requirements for a Permit Approving the Mine Plan and Reclamation Program Pursuant to the Mines Act. The conceptual reclamation plan will list the areas of disturbed mining land units and provide a schedule for anticipated progressive reclamation. Conceptual methods for reclaiming the identified mining units will be provided, including proposed treatments and possible vegetation prescriptions, and provision for reclamation research over the

life of the mine. An outline will be provided as to how reclamation will be integrated into the mining operation.

The conceptual reclamation and closure plan will discuss options being considered for closure and outline the geotechnical considerations to ensure stability of final mine configurations. Since acid generation potential will be a factor in the design for the development of the Project deposit, results of ARD test work will be integrated into reclamation planning as a key component with the goal to ensure no long-term release of metals or acidic drainage from the site on closure. Proposals to provide for a stable, productive post-mining landscape consistent with current wildlife values in the area will be detailed. The Reclamation and Closure Plan will also include a breakdown of estimated costs to complete the anticipated reclamation and closure activity at the end of the planned mine life.

The conceptual reclamation plan will include:

1. pre-mine land uses and proposed end land use objectives within the scope of the MLRMP,
2. pre-mine land capability and productivity and proposed post-mine capability and productivity objectives,
3. plans for soil and overburden characterization,
4. consideration of long-term stability,
5. treatment of structures and equipment, including mill building, maintenance shops, camp, explosives manufacturing plant, power lines, pump house, and other such facilities,
6. resloping and reclamation of waste dumps,
7. reclamation of water courses,
8. tailings impoundment reclamation,
9. road reclamation,
10. provision for comparing metals levels in soils and vegetation prior to mining and on closure,
11. geotechnical performance prediction of mine units,
12. revegetation plans, and
13. estimates of reclamation and closure costs.

3.7 Alternative Means of Carrying Out the Project

The EA will include an analysis of the alternative means of carrying out the Project that are technically and economically feasible and the environmental effects of any such alternative means. Alternative means may include, for example, alternative sites, alternative extraction methods, alternative tailings and waste rock management options, alternative transportation modes and routes, and other reclamation and decommissioning options.

The analysis will include:

1. description of the alternatives, how or why they are or are not technically and economically feasible, and the rationales for rejecting some alternatives,
2. identification of the environmental effects of the technically and economically feasible alternatives, and
3. the rationale for the preferred alternative.

4.0 SCOPE OF ASSESSMENT AND STUDY AREAS

The scope of the assessment will include assessment of the Project's potential direct, indirect and cumulative effects on the Project setting. It will focus on effects for which a reasonably direct causal link can be demonstrated between the Project's scoped components and the Project setting. The Application may include general discussion of potential changes in land use patterns and demands, but will primarily focus on effects for which the Proponent has the ability to directly implement impact management measures to mitigate the concern.

In the Application, study area boundaries will be defined in time and space. The Application will clearly indicate the study area boundaries used for each component of the impact assessment, and will include an explanation of the rationale adopted for establishing study area boundaries.

Studies within the defined study areas will take into account the time frames over which the effects originating from the construction, operation, and maintenance and, in the case of temporary facilities, when decommissioning of Project components are anticipated to occur.

Spatial (space) boundaries will be based on the zone of Project influence beyond which the effects of the Project are expected to be non-detectable. Multiple study area boundaries will be employed, if necessary, reflecting the range of geographic areas within which specific effects may be experienced. It may be possible to simplify the process of study area definition by identifying a limited number of primary study areas – for example, separate study areas for biophysical/environmental impacts, for socio-economic/community effects and for First Nations issues.

Since the Application is to address effects for which a reasonably direct causal link to the scoped Project components can be established, the study area(s) for most of the anticipated biophysical environmental issues are expected to be limited to the Project property. For the environmental impact assessment, most of the effort is likely to focus on characterizing the immediate Project footprint and near vicinity where environmental effects may be detectable.

4.1 Scope of Assessment

The EA will define within the general framework of the scope of assessment, as outlined above, a discussion of the influence of consultations with the public, First Nations and government agencies on the scoping of issues to be addressed in the Application.

4.2 Study Area Boundaries

4.2.1 Base Line Studies and Impact Assessment Time Frame

Base line study area boundaries will be defined in time and space. The Application will clearly indicate an explanation of the rationale adopted for establishing study area boundaries.

Base line studies within the defined study areas will take into account the timeframes over which the effects originating from the construction, operation and maintenance and in the case of temporary facilities decommission of Project components are anticipated to occur.

Spatial (space) boundaries will be based on the zone of Project influence beyond which the effects of the Project are expected to be non-detectable.

The EA will focus on characterizing the immediate Project footprint and near vicinity where environmental effects may be detectable.

4.2.2 Characterization and Assessment of First Nations Issues

The EA will determine the study area definitions and assessment in consultation with the First Nations.

5.0 PROJECT SETTING AND CHARACTERISTICS

This section will describe the existing Project setting in sufficient detail to permit the identification, assessment and determination of the significance of potentially adverse effects that may be caused by the Project and to adequately identify and characterize the beneficial effects of the Project.

This EA will provide a baseline description of the existing biophysical environment and socio-economic and socio-community setting for the Project, and characteristics of the Project sites and surrounding areas.

With respect to the biophysical environment, this section will focus on the environmental components that may be affected by the Project or valued environmental components (VECs). A rationale will be provided for considering certain environmental components and not others in the EA review. This section will provide a similar treatment for the socio-community and socio-economic conditions, including any public health issues, and for the heritage setting and First Nations traditional use and other interests within the Project area.

This EA will include those VECs that the Proponent considers likely to be affected by the Project. The location and distribution of these VECs will be indicated on maps or charts. The EA will describe the nature and sensitivity of the area within and surrounding the Project (based on the results of baseline studies) and any planned or existing land use in the area. The EA will also indicate the specific geographical areas or ecosystems that are of particular concern, and their relation to the broader regional environment and its ecosystems and economy (e.g., the contribution of the area to critical habitat, bird and fish population stocks, the presence of particular species and species at risk in the region).

For the biological environment, baseline data in the form of inventories alone is not sufficient for the Panel to assess effects. The EA will address effects on ecosystem health and integrity. The EA will include available historical data on population stocks and status. Emphasis will be placed on those species, communities and processes identified as VECs.

In providing baseline information on the environment, the EA will include data collected over a sufficient period of time to establish norms, trends, and extremes, to the extent that predictions can be made. The EA will comment on the quality and reliability of these data and their applicability for the purpose used, and identify gaps, insufficiencies, and uncertainties, especially those that should be remedied for monitoring purposes.

5.1 Geophysical Environment

5.1.1 Physiography and Topography

The EA will provide a description of key terrain features, including mountains, rivers, lakes, etc.

5.1.2 Soils and Geology

The EA will provide general geotechnical/soils/stability information for the Project area. In coordination with site engineering investigations, a survey will be conducted to develop a detailed description of surficial geology in the vicinity of the property including glacial, colluvial, alluvial and fluvial landforms and features. Of particular interest will be the identification of basal tills for dam construction. Soils mapping and sampling for soils recovery and reclamation will be carried out in detail on the proposed pit and infrastructure areas, and at a reconnaissance level within the surrounding study area. Removal and storage of surface soils will be planned for site reclamation purposes

The EA will describe the bedrock and structural geology for the region and the area that would be disturbed by the Project. Interpretations will be supported by maps, plans and cross sections and as appropriate, geochemical and petrological analyses.

5.1.3 Hydrogeology and Groundwater

The EA will provide an overview of the hydrogeology and groundwater flow regimes and proposed extraction volumes to supply groundwater to the project, if planned.

Information from these programs will be used to provide a detailed analysis of the groundwater regime in the vicinity of project area and to assess the potential impacts associated with mine development, operation and closure. Initial water level measurement and falling head tests were conducted in coordination with the 2003 drill program.

To develop the baseline physical and chemical character of the ground water within the mine development area, monitoring wells will be drilled near the open pit and tailing/waste rock management facility site. The expected number of wells will be determined in coordination with proposed geotechnical investigations. From four to six wells will be developed. These will be utilized for water level measurements, water quality sampling and response tests as approved by the government regulators.

The following information will also be provided for any watercourses in the Project area potentially affected by dams, water withdrawals, and effluent discharges or diversions due to the proposed mining operations:

1. statistical analysis of site-specific or regional hydrological data used for estimates of normal and extreme flows and water levels,
2. possible errors in computed data, including assumptions made when undertaking these analyses,
3. characteristics of surface water and groundwater interactions in disturbed areas like dams, waste rock dumps and tailings impoundments, and
4. description of the hydrology of the affected watershed, including specific information on the hydrology of the sub-basin streams potentially affected by the Project.

5.1.4 Natural Hazards

The EA will provide Background information on seismology and earthquake potential, avalanche potential, flood hazard and any other potential natural hazards in the Project area.

For project design purposes, the Proponent will provide an analysis of regional seismicity and earthquake potential based on data generated by the Pacific Geosciences Centre. Seismic data will be incorporated into designs for the tailings impoundment dams and other structures.

A terrain stability analysis for the Property and infrastructure corridors will be conducted including the potential for landslides and avalanches. Information generated from the terrain stability analyses will also be utilized in assessing the location and design of tailing/waste rock management facility, process buildings, and other structures.

5.2 Atmospheric Environment

5.2.1 Climate

The EA will describe the annual climatic conditions in the Project area, considering both the mine site and the mill site, with an emphasis on elements that will have an effect on, or interfere with, the Project. The description will include how the factors may be expected to change with the seasons. The EA will also identify data sources and location of sampling stations.

5.2.2 Wind

The EA will describe the predominant wind conditions, including direction, velocity and seasonal variations.

5.2.3 Precipitation

The EA will provide of data on area precipitation (snow, rain, fog, etc.) including volume and frequency.

5.2.4 Air Quality

The EA will provide a description of existing ambient conditions and baseline emission loadings at Project site.

5.3 Aquatic Environment and Surface Hydrology

5.3.1 Aquatic Habitats

The EA will provide a description of wetland/ponds/streams/lakes/rivers and/or marine environments within the zone of influence of the Project area.

5.3.2 Aquatic Fauna

The EA will describe the existing fisheries and fish habitat in the Project area, and other aquatic life, such as benthic invertebrates and periphytons. A description of study methods, habitat surveys, fish sampling and results of fieldwork describing fishery resource values will be provided.

5.3.3 Aquatic Vegetation

The EA will provide information on study methodology, results of the vegetation study and any ecological reserves.

5.3.4 Surface Hydrology

The EA will provide information on surface hydrological regimes, including quantified estimates of baseline flow regimes and proposed extraction volumes to supply surface water to the Project, if planned.

5.3.5 Surface Water Quality

The EA will provide baseline information on surface water quality (e.g. for dissolved metals, suspended solids, etc.); identification of data sources, including data collection methods.

The EIA will also discuss any potential for Acid Rock Drainage (ARD).

5.4 Terrestrial Environment and Wildlife

5.4.1 Biophysical Information

The EIA will provide a comprehensive summary of biophysical/vegetation information and mapping to assist in identifying and assessing ecosystem impacts, including data collection methods.

5.4.2 Wildlife

The EIA will provide an assessment of wildlife species occurring within and surrounding the Project area, including mammals, reptiles, migratory birds within the meaning of the Migratory Birds Convention Act, Committee on the Status of Endangered Wildlife in Canada (COSEWIC) listed species at risk (i.e. status as Extirpated, Endangered, Threatened, or of Special Concern), as well as provincially red/blue-listed species, and their habitats. This summary will include information obtained from the following sources:

1. consultation with relevant agencies; and
2. literature and database reviews;
3. seasonal field studies conducted prior to construction and following accepted standards, such as the British Columbia Resource Information Standards Committee (RISC).

The EIA will also contain an assessment of wildlife habitats including results from TEM and wildlife habitat mapping and a discussion of any environmentally sensitive areas as per RISC standards. The Proponent will consult Environment Canada's Migratory Bird Environmental Assessment Guideline with respect to the conduct of bird inventory work.

The EIA will outline all survey and habitat-mapping methodologies used and identify any limitations of these methodologies.

5.4.3 Threatened and Endangered Species

The EA will identify any red-listed and blue-listed wildlife or vegetation species, which may be present in the zone of Project influence, and identify COSEWIC listed species and document the associated requirements under the Species at Risk Act (SARA).

5.5 Land Use Context

5.5.1 Land Use Regime

The EA will identify objectives and strategies established in the British Columbia MLRMP for the Project area.

5.5.2 Current Land Status/Use

The EA will outline current land uses in the Project area, and describe the past, existing and planned land uses within the Project site and any other area that may be affected by the Project, including fishing, recreational land use, forestry, registered hunting, trapping or guiding, and any other human activity in the Project area.

5.5.3 Aesthetics

The EA will describe current aesthetic conditions in the Project area.

5.5.4 Proposed Land Use

The EA will describe the proposed land use of the Project area.

5.5.5 Land Acquisition

The EA will describe any land acquisition requirements.

5.6 Socio-Community Conditions

5.6.1 Socio-Community Profile and Population Demographics

The EA will provide an assessment of the potential economic and social affects associated with Project development based on regional demographics and community profiles. The assessment will include and be based on factors such as estimates of employment income, taxation levels, and purchased goods and services, as well as expected numbers of local versus non-resident employees, increased population resulting from

in-migration of employees, shift rotation schedules, housing and accommodation.

Through job creation (direct and indirect), purchasing, training programs and transferable skills, contracting opportunities and tax payments, the Project has the potential to create significant positive present and future economic benefits for the Bulkley-Nechako Region and beyond. In addition, the Project has the potential to affect local and regional resources through increased demand on social services such as police, health care, housing and education. Social affects at the community and family level also have the potential to occur as a result of increased disposable income, lifestyle changes and work-associated demands.

The potential social affects upon the Lake Babine Nation (LBN) at the local level will be given particular consideration in the context of the commitment that Proponent has to engage the participation of the LBN. The potential social impacts and benefits of the Project are being addressed with the LBN and will continue to be throughout the lifespan of the Project.

5.6.2 Housing

The EA will provide an assessment of the existing housing and accommodation supply and the potential requirement for increased housing/accommodations due to the expected increased population from in-migration of employees, shift rotation schedules, etc.

5.6.3 Transportation

The EA will describe existing modes and routes of transportation (e.g. provincial highways, arterial highways, barge service and on-site access roads) that will be used for the proposed mine development. This description will include information on existing types and volumes of traffic.

5.6.4 Services

The EA will provide a brief description of existing services, such as education, justice, policing and fire protection and information on social support services, such as family and children counselling and emergency services within the Project area.

5.7 Socio-Economic Conditions

5.7.1 Local and Regional Economy

The EA will provide an assessment of the potential economic effects associated with Project development based on regional demographics and community profiles of the communities that are likely to be impacted by the Project. The assessment will include and be based on factors such as estimates of employment income, taxation levels, purchased goods and services, as well as expected numbers of local versus non-resident employees, increased population resulting from in-migration of employees, shift rotation schedules, housing and accommodation.

5.7.2 Labour Supply

The EA will provide information on the labour market (unemployment, labour supply, skills, training, etc.).

5.7.3 Businesses

The EA will provide assessment of the potential economic effects on key businesses to be impacted by the Project

5.8 Public Health

5.8.1 Health Profile

The EA will provide a description of the general public health setting and characteristics, including air quality and water quality, the impact of existing public utilities (water/waste/etc.), and the status of health and emergency services. The environmental assessment report will include an examination of the potential affects of all phases of the proposed project (construction, operation, maintenance, decommissioning) on public health and safety with consideration of relevant determinants of health.

5.8.2 Public Health Parameters

The EA will provide a description of the baseline factors affecting the public health setting of the Project including noise levels, local landscape aesthetics, existing water and air quality (from a human health perspective), and existing services (e.g. water supply, waste disposal, health and emergency response).

5.9 Navigable Waters Issues

5.9.1 Identification of Waterways to be affected by the Project

The EA will identify waterways that may be affected by the Project, including data on location at the point of crossing (latitude and longitude), width, and depth and any navigational use or issues.

5.9.2 Photographs, Proposed Crossing Sites

The EA will provide of photographs of any proposed crossing sites and the dates that the photographs were taken.

5.9.3 GPS Position, Proposed Crossing Points or Fill Locations

The EA will provide an indication of the GPS position of any proposed crossing points or fill locations.

5.9.4 Flood Level, Structures Crossing Waterways

The EA will determine the requirement for flood level for structures crossing the waterway, including telephone wires, power transmission lines and bridges, etc.

5.9.5 Waterways Usage

The EA will document any known current or past usage of waterways.

5.10 First Nations Setting

5.10.1 First Nations, Affected by the Proposed Project

The EA will identify the First Nations potentially affected by the proposed Project, and their asserted traditional territories.

5.10.2 Socio-community, Socio-economic and Public Health Profile

The EA will profile the local and regional socio-economic, socio-community and public health conditions, but focused on the communities of First Nations whose traditional territories contain, or are in the vicinity of the Project.

5.10.3 Traditional Use, Project Area Lands and Resources

The EA will provide a non-confidential overview of traditional use of the Project area lands and resources, and the associated traditional and contemporary First Nations economy. (Note - This information will form the basis, under Section 6.0, for assessing impacts of the Project on traditional use patterns, with additional studies necessary to assess these impacts, including Aboriginal Interest and Use Studies that will identify their aboriginal interests, and to the extent possible, the extent of any impacts on the First Nations uses and interests).

5.10.4 Culturally Modified Trees, Rock Paintings, Trails, Legendary Land Features, Wildlife and Vegetation Species

The EA will identify culturally modified trees, rock paintings, trails, legendary land features, wildlife, and vegetation species significance to First Nations.

5.10.5 First Nations, Land Use Plans or Planning Objectives

The EA will identify First Nations land use plans or planning objectives proposed for the area in the vicinity of the project.

5.10.6 First Nations, Views on Aboriginal Rights and Title

The EA will document any known First Nations views on the existence of Aboriginal rights and title in the vicinity of the Project.

5.10.7 Identified Archaeological Resources

The EA will provide a non-confidential summary of identified archaeological resources in the Project area.

6.0 ASSESSMENT OF PROJECT IMPACTS, MITIGATION REQUIREMENTS AND RESIDUAL EFFECTS

This section will (i) describe how the Project EA was performed; (ii) note which indicators and data sources were used to consider Project effects; (iii) identify potential effects of the project and discuss mitigation measures to avoid, mitigate or compensate for those effects; and (iv) discuss any identified residual effects. Supporting documents, when available, will be referenced and attached as appendices.

In this section, the Proponent will describe the likely effects of the Project on the environment, on the socio-economic, socio-community and public health conditions and on First Nations. As per CEAA requirements, the Proponent will also describe the cumulative environmental effects, the potential for accidents and malfunctions which could affect the natural environment, and the effects of the environment on the Project, including climatic fluctuations and extreme (e.g. natural hazards) events.

The methodology to be used for assessing Project impacts and definition of appropriate mitigation measures and establishing any residual Project effects is outlined in Section 6.1

6.1 Impact Assessment Methodology

The EA will use the following six-step process to assess Project impacts, and to ensure that the interactions between the Project components and the Project's settings, as documented under Section 5.0, are adequately described, that the likely effects are identified and properly assessed, that mitigation measures are applied, and that the significance of any residual effect is minimized:

1. Describe the Project facilities and activities,
2. Identify and describe those components of the Project setting (environmental, socio-economic, heritage, First Nations, etc.) that will be or could be affected by Project development, as identified under Section 5.0,
3. Describe the nature and extent of the direct, indirect and cumulative effects of any interaction between the Project and the existing Project setting and characteristics (environmental, socio-economic, etc.), as identified under Section 5.0,
4. Describe proposed measure(s) available to manage the impacts identified above,
5. Identify the magnitude, duration and frequency, reversibility and extent (geographic or otherwise) of any residual effects of the Project after mitigation measures are applied, and

6. Assess the significance of any residual effects.

6.2 Effects Assessment, Project Construction

The EA will apply the six-step process to describe and assess the effects of construction activities on relevant components of the project setting, as itemized in Section 5. Relevant construction activities include, but are not limited to:

1. surveying and siting operations ,
2. site access roads,
3. delivery of heavy equipment,
4. stripping of vegetation, and clearing and grubbing,
5. topsoil and overburden storage (location and dimensions),
6. drilling, blasting (handling procedures, frequency and size, pre-blast surveys, weather condition considerations), (if required),
7. sewage treatment and waste management systems,
8. dangerous goods storage areas,
9. dams, watercourse crossings and wetland alteration,
10. dewatering (e.g. timing, water quality, rate of water release, associated works, etc.),
11. excavation, transport and placement of soils in dam construction,
12. structures (e.g., camp, offices and warehouses) and utilities,
13. estimate of construction scheduling,
14. erosion and sedimentation control measures, and
15. risk management (e.g., contingency plans for uncontrolled release of substances, emergency response plans).

6.3 Effects Assessment, Project Operation and Maintenance

The EA will apply the six-step process to describe and assess the effects of operations and maintenance activities on relevant components of the project setting, as itemized in Section 5. Relevant operations and maintenance activities include, but are not limited to:

1. drilling and blasting (handling procedures, frequency and size, pre-blast surveys, weather condition considerations),
2. mining process including pit design, explosives use, equipment, schedule and dewatering,
3. metallurgy and processing including crushing, grinding and flotation circuit, reagent use,
4. water management plan for the mill, tailings facility and camp and all mine development areas (i.e., pits, waste dump and stockpiles) including detailed water budget with effluent treatment, water recycling and dewatering activities,

5. conceptual wastewater treatment plans for control of any/all suspended solids, acidity, heavy metals and sulphate, off-site runoff, tailings supernatant, and seepage from dams or waste rock dumps,
6. waste rock management plan based on the material characterization work used to determine metal leaching/acid rock drainage potential, and description of placement methods for sub-aerial and underwater disposal,
7. tailings management plan, based on geochemical characterization work, and supported by dam design, seepage control, diversions operations and supernatant quality,
8. hazardous waste listing, handling, storage and disposal, including management of blasting chemicals/residues,
9. non-hazardous waste (other than waste rock and tailings) handling and disposal,
10. sewage, water treatment and disposal,
11. stockpiling,
12. dangerous goods use and waste dangerous goods management,
13. transportation (modes, routes, load size and frequency),
14. environmental controls for noise and dust, and
15. risk management (contingency plans for uncontrolled release of substances emergency response plans).

6.4 Effects Assessment, Project Decommissioning

The EA will apply the six-step process to describe and assess the effects of decommissioning (reclamation) activities on relevant components of the project setting, as itemized in Section 5. Reclamation activities would include, but are not limited to:

1. pre-mine land uses and proposed end land use objectives within the scope of the MLRMP,
2. pre-mine land capability and productivity and proposed post-mine capability and productivity objectives,
3. plans for soil and overburden characterization,
4. consideration of long-term stability,
5. treatment of structures and equipment, including mill building, maintenance shops, camp, explosives manufacturing plant, power lines, pump house, and other such facilities,
6. resloping and reclamation of waste dumps,
7. reclamation of water courses,
8. tailings impoundment reclamation,
9. road reclamation,
10. provision for comparing metals levels in soils and vegetation prior to mining and on closure,
11. geotechnical performance prediction of mine units,
12. revegetation plans, and

13. estimates of reclamation and closure costs.

6.5 Potential Project Effects on First Nations Issues

6.5.1 Areas Where the Project Could Directly Effect First Nations

The EA will identify areas where the Project could directly affect First Nations.

6.5.1.1 First Nations, Components of the Project setting

The EA will identify and describe First Nations components of the Project setting.

6.5.1.2 Summary of impact assessment findings

The Ea will provide a summary of impact assessment findings.

6.5.1.3 Documentation Agreements with First Nations

The EA will document any non-confidential relevant agreements with First Nations with respect to impact concerns (e.g. any benefits agreement).

6.6 Accidents and Malfunctions

6.6.1 Identification of the potential for accidents or malfunctions

The EA will identify the potential for accidents or malfunctions, which could lead to environmental impacts, and their likely potential effects on the environment (e.g. on VECs) and/or on local community settings.

6.6.2 Proposed Mitigation Measures or Contingency Plans

The EA will document any proposed mitigation measures or contingency plans.

6.6.3 Commitment to an Environmental Management Plan

The EA will commit to having an Environmental Management Plan (EMP) in place in time for Project start-up that would address potential accidents and malfunctions. The EMP will be described in preliminary detail, indicating general approaches.

6.7 Effects of the Environment on the Project

6.7.1 Climatic factors relevant to project success

Pacific Booker will identify any potential for short-term and/or long term adverse climatic fluctuations at the Project site, will estimate the significance of identified adverse fluctuations, if any, and will describe measures to mitigate these effects.

6.7.2 Description of Potential Effects of Extreme Events

The EA describe the potential effects of extreme events such as avalanches, landslides, debris flows, floods, ice storms, fires and earthquakes directly on the Project and indicate any measures that will be taken to mitigate these effects.

6.8 Cumulative Environment Effects

The E will address cumulative effects assessment pursuant to federal requirements under CEAA if applicable to the Project.

6.9 Effects on Navigable Waters

The EA will identify the impact of the Project on use of navigable waters as applicable in accordance with CEAA guidelines.

6.10 Summary of Project Impacts and Mitigation Measures

6.10.1 Summary of Impact Findings

The EA will provide a summary of the impact assessment findings and the potential impacts and mitigation proposed. The summary will address all potential direct, indirect and cumulative environmental, socio-economic, public health, heritage and First Nations effects of the Project, and summarize how these effects will be managed to reduce them to acceptable levels.

6.10.2 Results of Cumulative Effects

The EA will provide a summary of the results of the cumulative effects assessment conducted in respect of any residual effects.

6.10.3 Significance Levels of Residual Impacts

The EA will make a determination of the significance levels of residual impacts after impact management measures have been applied.

6.11 Summary of Commitments

6.11.1 Summary “table of proposed commitments”

The EA will include a summary “table of proposed commitments” stated in the Terms of Reference and the Application, including timing of action and the responsible party for addressing each of the actions for which a commitment has been made.

6.11.2 Significant Impact Management Commitments

The EA will include all significant impact management commitments in the Application, including commitments to any standard as well as special management practices and design features, organized by impact topic.

7.0 ENVIRONMENTAL MANAGEMENT PROGRAM

Environmental Management Plans (EMPs) are the general documents that describe the environmental practices and procedures to be systematically applied by the Proponent during planning, construction, and operation/maintenance and, in relation to temporary facilities, decommissioning of the Project, in order to manage potential environmental and other effects. Detailed EMPs will be developed for approval by relevant agencies and authorities. EMPs commitments and obligations will be transferable from the Proponent to contractors and other parties acting for the Proponent.

This section of the Application will provide a description in a preliminary level of detail of the various EMPs that may be required to be developed for the Project, with the details to be finalized in discussions with the relevant permitting agencies and First Nations before start of construction.

EMPs will address all task areas, which if not effectively managed, may adversely affect the environment. Task areas may cover such matters as agency reporting procedures, various post-construction monitoring program requirements, operations and maintenance facilities, waste management, energy management, emergency spill response, containment and management, storm water runoff, surface water runoff, noise attenuation measures and vegetation management. Presenting information on proposed EMPs does not eliminate the need for a full discussion of impacts and mitigation measures for each component under Section 6.0.

The Monitoring programs will be incorporated into each phase of the Project in satisfying regulatory requirements, sustainable development objectives, and the need to avoid or minimize adverse environmental, economic, social, heritage or health effects of the Project. The final details of these monitoring programs will be developed during the permitting stage. The EA will describe how the Proponent will use the results of monitoring programs to refine or modify the design and implementation of management plans.

7.1 Overview of EMPs Proposed for the Project

Environmental management plans will be developed for the construction, operations/maintenance and decommissioning phases of the Project. These will include:

1. Surface Water Quality and Sediment Control Plan,
2. Construction Waste Management Plan,
3. Acid rock drainage and water quality management Plan,
4. Tailing impoundment operating Plan,

5. Air Quality and Dust Control Plan,
6. Water Quality/Quantity Monitoring Plan,
7. Contaminated Sites Management Plan,
8. Hazardous Waste Management and Spill Plan,
9. Accidents and Malfunctions Plan,
10. Spill Contingency and Emergency Response Plan,
11. Landscape Design and Restoration Plan,
12. Wildlife/Vegetation Monitoring Plan,
13. Outdoor Recreation Use Management Plan,
14. Archaeological Resources Monitoring Plan,
15. Traditional Use Monitoring Plan,
16. Reclamation and closure plan, and
17. Other, if required need identified with Regulatory Agencies.

7.2 EMPs, to Minimize Potential Effects on First Nations

The EA will identify EMPs or other mitigation tools that can be used to minimize potential effects on First Nations

7.3 EMPs, First Nations concerns

7.3.1 Archaeological Resources Monitoring Plan

The EA will describe methods used to gather archaeological baseline information, including findings of archaeological studies conducted in the Project area. The EA will identify archaeological features within the Project and surrounding area and will also describe any structure, site or thing that may have special historical, paleontological or architectural value.

7.3.2 Traditional Use Monitoring Plan

The EA will identify historic and current uses of land and resources in the Project area by aboriginal people. Traditional uses will be subject to First Nations governance structures, and may include hunting, fishing, gathering, and travel on traditional routes, trapping, harvesting, and collection of medicinal plants, use of sacred sites and any other traditional use. First Nations will have their own views on VECs, and First Nations objectives for water and watersheds, wildlife, fish, etc. may support traditional use activities in the Project's zone of influence. Information on these matters should be provided by First Nations, or if First Nations do not provide this information, then available information from other sources should be used, and efforts undertaken by the Proponent to obtain this information should be identified.

7.3.3 Other plans

The EA will address other plans if identified in the EA process.

7.4 Monitoring, Archaeological and First Nations Issues

The method of monitoring archaeological and First Nations issues during Project Construction will be determined in consultation with First Nations.

8.0 CONCLUSION

In the Application, the Proponent will present a clear conclusion from the Project impact assessment, cross-referencing the findings from Section 6.0.

8.1 Impact Assessment

Based on the analysis under Section 6.0, one of the following conclusions will be determined:

1. The Project is not likely to cause significant adverse environmental, socio-economic/community or other effects, taking into account the implementation of appropriate impact management measures as identified in the Application's "table of proposed commitments", or
2. The Project is likely to cause significant adverse environmental, socio-economic/community or other effects; even taking into account the implementation of appropriate impact management measures as identified in the Application's "table of proposed commitments", or
3. It is uncertain at the time of the review whether or not the Project is likely to cause significant adverse environmental, socio-economic/community or other effects, taking into account the implementation of appropriate impact management measures as identified in the Application's "table of proposed commitments".

9.0 LIST OF REFERENCES AND SUPPORTING DOCUMENTATION

This section will itemize reference documents cited in the Application.

9.1 Consultations, Public, First Nations and Government Agencies

The EA will provide documentation with respect to consultations with the public, First Nations and government agencies.

9.2 Records, Meetings and Discussion Topics and Relevant Agreements

The EA will provide records of meetings, discussion topics and relevant agreements, with government review agencies prior to filing the Application.

9.3 List of Enclosures

The EA will provide a list of all enclosures included with the Application.