



PRODIGY
GOLD INCORPORATED

Magino Gold Project

MAGINO GOLD PROJECT

Finan Township, Algoma District, Ontario

ENVIRONMENTAL IMPACT STATEMENT APPENDIX 2: TABLE OF CONCORDANCE

Submitted to:

Ontario Ministry of Natural Resources
Wawa - District Office
48 Mission Rd Hwy 101
PO Box 1160
Wawa ON P0S 1K0
Tel: 705-856-2396

Canadian Environmental Assessment Agency
Ontario Region
55 St. Clair Avenue East, Room 907
Toronto, Ontario M4T 1M2
Telephone: 416-952-1576

CEAA Reference Number: 80044

June, 2017



Table A2-1: Magino Environmental Impact Statement Guidelines Table of Concordance

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Part 1, 1 Introduction	The EIS must include a full description of the changes the project will cause to the environment including changes that are directly linked or necessarily incidental to any federal decisions that would permit the project to be carried out.	Chapter 1 Chapter 6 Chapter 15
Part 1, 2.2 Public Participation	The proponent is required to provide current information about the project to the public and especially to the communities likely to be most affected by the project.	Chapter 13 Appendix 13-1 Appendix 13-2
Part 1, 2.3 Aboriginal Engagement	The proponent will ensure that it engages with Aboriginal groups that may be affected by the project, as early as possible in the project planning process.	Chapter 12 Appendix 12-1 Appendix 12-2
	The proponent will provide Aboriginal groups with opportunities to learn about the projects and its potential effects make their concerns known about the project's potential effects and discuss measures to mitigate effects.	Chapter 12 Appendix 12-1 Appendix 12-2
	The proponent will make reasonable efforts to integrate traditional Aboriginal knowledge into the assessment of environmental impacts.	Chapter 4, Section 4.6 Chapter 7, Section 7.7
Part 1, 2.4 Application of the Precautionary Approach	The proponent will demonstrate that all aspects of the project have been examined and planned in a careful and precautionary manner in order to ensure that it would not cause serious or irreversible damage to the environment, especially with respect to environmental functions and integrity, system tolerance and resilience, and/or the human health of current or future generations. The proponent will also ensure that in designing and operating the project, priority has been and would be given to strategies that avoid adverse effects.	Chapters 4-11, 15 and 16 Chapter 6 provides a description of mitigation by design TSD 20
Part 1, 3.2 Factors to be	Part 2 of the EIS guidelines specify the factors to be considered in this environmental assessment and include the factors listed in subsection 19(1) of CEAA 2012: <ul style="list-style-type: none"> o environmental effects of the project, including the environmental effects 	Chapters 8, 9 and 11

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Considered	of malfunctions or accidents that may occur in connection with the project and any cumulative environmental effects that are likely to result from the project in combination with other physical activities that have been or will be carried out;	
	<ul style="list-style-type: none"> ○ the significance of effects; 	Chapters 7-11
	<ul style="list-style-type: none"> ○ comments from the public; 	Chapter 13
	<ul style="list-style-type: none"> ○ mitigation measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the project; 	Chapter 6-11 TSD 20
	<ul style="list-style-type: none"> ○ the requirements of the follow-up program in respect of the project; 	Chapter 7-11 TSD 20
	<ul style="list-style-type: none"> ○ the purpose of the project; 	Chapter 1 and Chapter 6
	<ul style="list-style-type: none"> ○ alternative means of carrying out the project that are technically and economically feasible and the environmental effects of any such alternatives; 	Chapter 5, Appendix 5-1, Appendix 5-2
	<ul style="list-style-type: none"> ○ any change to the project that may be caused by the environment; and 	Chapter 9
	<ul style="list-style-type: none"> ○ the results of any relevant regional study pursuant to CEAA 2012. 	N/A
Part 1, 3.3.1 Valued Components to be Examined	The proponent will identify the valued components (VCs) deemed appropriate, including the ones identified in Part 2 (section 6.2) of this document.	Chapters 4, 6, 7 (Section 7.1), 8 and 10
	<p>The VCs identified in these guidelines include, but are not limited to, the relevant environmental components specified by section 5 of CEAA 2012, as well as species at risk and their critical habitat as per the requirement outlined in section 79 of the <i>Species at Risk Act</i>. Section 5 of CEAA 2012 defines environmental effects for the application of the Act as:</p> <ul style="list-style-type: none"> ○ A change that may be caused to fish and fish habitat, marine plant and migratory birds; 	Chapter 7, Sections 7.4.1 and 7.4.5

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<ul style="list-style-type: none"> ○ A change that may be caused to the environment on federal lands, in another province or outside Canada; 	N/A
	<ul style="list-style-type: none"> ○ With respect to aboriginal peoples, an effect of any change caused to the environment on: <ul style="list-style-type: none"> ▪ health and socio-economic conditions; ▪ physical and cultural heritage; ▪ the current use of lands and resources for traditional purposes; ▪ any structure, site or thing that is of historical, archaeological, paleontological or architectural significance; 	Chapter 7, Section 7.7 Chapter 10 and TSD 14 TSD 18
	<ul style="list-style-type: none"> ○ For project requiring a federal authority to exercise a power or function under another Act of <ul style="list-style-type: none"> ▪ Parliament; ▪ a change, other than the ones mentioned above, that may be caused to the environment and that is directly linked or necessarily incidental to the exercise of the federal power or function. ▪ the effect of that change, other than the ones mentioned above, on: <ul style="list-style-type: none"> ▪ health and socio-economic conditions; ▪ physical and cultural heritage; ▪ any structure, site or thing that is of historical, archaeological, paleontological or architectural significance. 	Chapter 15
	The proponent will describe what methods were used to predict and assess the adverse environmental effects of the project on these components.	Chapter 7, Section 7.1 Chapters 8-11 and 15
	VCs will be described in sufficient detail to allow the reviewer to understand their importance and assess the potential for environmental effects arising from the project activities.	Chapters 4, 7, 8 and 10
	The proponent will provide a rationale for selecting specific VCs and for excluding any VCs or information specified in these guidelines.	Chapters 4, 7, 8 and 10

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	For consultations associated with the identification of VCs, the proponent will identify those VCs, processes, and interactions that either were identified to be of concern during any workshops or meetings held by the proponent or that the proponent considers likely to be affected by the project. In doing so, the proponent will indicate to whom these concerns are important and the reasons why, including environmental, Aboriginal, social, economic, recreational, and aesthetic considerations. If comments are received on a component that has not been included as a VC, these comments will be summarised.	Chapters 2, 4, 7 and 10 Chapters 12 and 13 Appendices
Part 1, 3.3.2 Spatial and Temporal Boundaries	The EIS will clearly indicate the spatial boundaries to be used in assessing the potential adverse environmental effects of the project and provide a rationale for each boundary.	Chapters 4 and 7 TSDs 8-14
	The temporal boundaries of the EA will span all phases of the project determined to be relevant to the scope of this environmental assessment.	Chapters 1, 4, 6 and 7
	If the temporal boundaries do not span all phases of the project, the EIS will identify the boundaries used and provide a rationale.	Chapters 1, 4, 6 and 7
Part 1, 4.1 Guidance	For projects requiring the use of natural water bodies frequented by fish for the disposal of mine waste, including tailings and waste rock, and for the management of process water, the MMER would need to be amended to add the affected water bodies to Schedule 2 to designate them as tailings impoundment areas.	Chapter 6 and 15 TSD 5 and 20-14
	Conducting this robust and thorough assessment of alternatives during the EA stage will streamline the overall regulatory review process and minimize the time required to proceed with the MMER amendment process. It also facilitates a thorough and transparent review of the assessment of alternatives as part of the EA process.	Chapter 6 and 15 TSD 5 and TSD 20-14
Part 1, 4.2 Study Strategy and	It is possible these guidelines may include matters which, in the judgement of the proponent, are not relevant or significant to the project. If such matters are omitted from the EIS, the proponent will clearly indicate it, and provide a	N/A

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Methodology	justification so the Agency, federal authorities, Aboriginal groups, the public and any other interested party have an opportunity to comment on this decision.	
	The assessment will include the following general steps: ○ identifying the activities and components of the project;	Chapter 6
	○ predicting and evaluating the likely effects on identified valued components;	Chapters 7, 8, 10 and 11
	○ identifying technically and economically feasible mitigation measures for any significant adverse environmental effects;	Chapters 6, 7, 8, 10 and 11 TSD 20
	○ determining any residual environmental effects;	Chapters 7, 8, 10 and 11
	○ ranking each residual adverse environmental effect based on various criteria; and,	Chapters 7, 8, 10 and 11
	○ determining the potential significance of any residual environmental effect following the implementation of mitigation.	Chapters 7, 8, 10 and 11
	For each VC, the proponent will describe the methodology used to assess project-related effects.	Chapters 7, 8, 10 and 11
	All significant gaps in knowledge and understanding related to key conclusions presented in the EIS must be identified.	N/A
	Where the conclusions drawn from scientific and technical knowledge are inconsistent with the conclusions drawn from traditional knowledge, the EIS will contain a balanced presentation of the issues and a statement of the proponent's conclusions.	N/A
	The EIS will include a description of the environment (both biophysical and human), including the components of the existing environment and environmental processes, their interrelations as well as the variability in these components, processes and interactions over time scales appropriate to the project.	Chapter 4 TSDs 1-18
	This analysis will include environmental conditions resulting from historical and present activities in the local and regional study area.	Chapter 4

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
		TSDs 1-18
	In describing and assessing effects to the physical and biological environment, the proponent will take an ecosystem approach that considers both scientific and traditional knowledge and perspectives regarding ecosystem health and integrity.	Chapter 4
	The proponent will identify and justify the indicators and measures of ecosystem health and integrity used for analysis and relate these to the identified VCs.	Chapter 4
	The proponent will summarize all pertinent historical information on the size and geographic extent of relevant animal populations as well as density, based on best available information.	Chapter 4
	The proponent will address issues such as habitat, nutrient and chemical cycles, food chains, productivity, to the extent that they are appropriate to understanding the effect of the project on ecosystem health and integrity. Range and probability of natural variation over time will also be considered.	Chapter 4
	In describing and assessing effects related to Aboriginal peoples, the proponent will consider the use of both primary and secondary sources of information regarding changes to the environment and the corresponding effect on health, socio-economics, physical and cultural heritage or current use of lands and resources for traditional purposes.	Chapter 4 section 4.6 Chapter 7 section 7.7 Chapter 10 TSD 14 and 18
	The proponent needs to provide Aboriginal groups the opportunity to review and provide comments on the information used for describing and assessing effects on Aboriginal peoples.	Chapters 5, 6 and 12 Appendix 12-1 and Appendix 12-2
	Where there are discrepancies in the views of the proponent and Aboriginal groups on the information to be used in the EIS, the proponent will document these discrepancies and the rationale for the proponent's selection of information.	N/A

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	Assessment of effects on Aboriginal peoples will consider interactions with biophysical environment VCs.	Chapter 7, Section 7.7
	If the baseline data have been extrapolated or otherwise manipulated to depict environmental conditions in the study areas, modelling methods and equations will be described and will include calculations of margins of error and other relevant statistical information, such as confidence intervals and possible sources of error.	Chapter 4 TSDs 1-18
Part 1, 4.3.2 Use of Information: Community Knowledge and Aboriginal Traditional Knowledge	The proponent will incorporate into the EIS the community and Aboriginal traditional knowledge to which it has access or that is acquired through Aboriginal engagement activities, in keeping with appropriate ethical standards and without breaking obligations of confidentiality, if any.	Chapter 4, Section 4.6 Chapter 7, Section 7.7 Chapter 16, Section 16.2
Part 1, 4.3.3 Use of Information: Existing Information	In preparing the EIS, the proponent is encouraged to make use of existing information relevant to the project. However, when relying on existing information to meet requirements of the EIS guidelines, the proponent will either include the information directly in the EIS or clearly direct the reader to where it may obtain the information (i.e., through cross-referencing). When relying on existing information, the proponent will also comment on how the data was applied to the project, clearly separate factual lines of evidence from inference, and state any limitations on the inferences or conclusions that can be drawn from the existing information.	Chapters 1, 3, 4, 6, 7, 8, 9,10,11, 14, 16
Part 1, 4.3.4 Use of Information: Confidential Information	The EIS will not contain information that: <ul style="list-style-type: none"> ○ is sensitive or confidential (i.e., financial, commercial, scientific, technical, personal, cultural or other nature), that is treated consistently as confidential, and the person affected has not consented to the disclosure; or, ○ may cause harm to a person or harm to the environment through its disclosure. 	N/A

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	The proponent will consult with the Agency regarding whether specific information requested by these guidelines should be treated as confidential.	N/A
Part 1, 4.4 Presentation and Organization of the Environmental Impact Statement	To facilitate the identification of the documents submitted and their placement in the Canadian Environmental Assessment Registry, the title page of the EIS and its related documents will contain the following information: <ul style="list-style-type: none"> ○ project name and location; ○ title of the document, including the term “environmental impact statement”; ○ subtitle of the document; ○ name of the proponent; and, ○ the date. 	Chapters 1-16 Appendices
	The EIS will be written in clear, precise language. A glossary defining technical words, acronyms and abbreviations will be included. The proponent will provide charts, diagrams, tables, maps and photographs, where appropriate, to clarify the text. Perspective drawings that clearly convey the various components of the project will also be provided. Wherever possible, maps will be presented in common scales and datum to allow for comparison and overlay of mapped features.	Chapters 1-16 Glossary) Acronyms)
	The EIS will explain how information is organized in the document. This will include a list of all tables, figures, and photographs referenced in the text. A complete list of supporting literature and references will also be provided.	Chapters 1-16 Appendices
	A table of concordance, which cross references the information presented in the EIS with the information requirements identified in the EIS Guidelines, will be provided.	Appendix 2
	The proponent will provide copies of the EIS and its summary for distribution, including paper and electronic version in an unlocked, searchable PDF format, as directed by the Agency.	Chapters 1-16 Appendices TSDs 1-20
Part 1, 4.5	The proponent will prepare a summary of the EIS in both of Canada’s official languages (French and English) to be provided to the Agency at the same	EIS Summary, Section 2

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Summary of the Environmental Impact Statement	time as the EIS and which will include the following: <ul style="list-style-type: none"> ○ A concise description of all key components of the project and related activities; 	
	<ul style="list-style-type: none"> ○ A summary of the consultation conducted with Aboriginal groups, the public, and government agencies, including a summary of the issues raised and the proponent's responses; 	EIS Summary, Sections 5-7
	<ul style="list-style-type: none"> ○ An overview of the key environmental effects of the project and proposed technically and economically feasible mitigation measures; and, 	EIS Summary, Section 8
	<ul style="list-style-type: none"> ○ The proponent's conclusions on the residual environmental effects of the project and the significance of adverse environmental effects after taking mitigation measures into account. 	EIS Summary, Section 8, Section 13
	<p>The summary is to be provided as a separate document and should follow the outline provided below:</p> <ol style="list-style-type: none"> 1. Introduction and environmental assessment context 2. Project overview 3. Alternative means of carrying out the project 4. Public consultation 5. Aboriginal engagement 6. Summary of environmental effects assessment for each VCs, including: <ol style="list-style-type: none"> a. description of the baseline b. anticipated effects c. mitigation measures d. significance of residual effects 7. Follow-up and monitoring programs proposed 	<p>EIS Summary</p> <ol style="list-style-type: none"> 1. Section 1 2. Section 2 3. Section 4 4. Section 5 5. Section 7 6. Sections 3 and 8 7. Section 8
	The summary will have sufficient details for the reader to learn and understand the project, potential impacts, mitigation measures proposed, and the significance of the residual effects.	EIS Summary
	The summary will include key maps illustrating the project location and key project components.	EIS Summary

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Part 2, 1.1 Introduction and Overview - The proponent	The proponent will: <ul style="list-style-type: none"> ○ provide its contact information (e.g. name, address, phone, fax, email); ○ identify itself and the name of the legal entity that would develop, manage and operate the project; ○ explain corporate and management structures; ○ specify the mechanism used to ensure that corporate policies will be implemented and respected for the project; and, ○ identify key personnel, contractors, and/or sub-contractors responsible for preparing the EIS. 	Chapter 1
Part 2, 1.2 Introduction and Overview – Project Overview	The proponent will briefly summarize the project, by presenting key project components and associated activities, scheduling details, the timing of each phase of the project and other key features. If the project is a part of a larger sequence of projects, the proponent will outline the larger context.	Chapter 1
Part 2, 1.3 Introduction and Overview – Project Location	The EIS will contain a concise description of the geographical setting in which the project will take place. The following information will be included: <ul style="list-style-type: none"> ○ the UTM coordinates of the main project site; 	Chapter 1, Section 1.4.1
	<ul style="list-style-type: none"> ○ current land use in the area and the relationship of the project facilities and components with any federal lands; ○ the environmental significance and value of the geographical setting in which the project will take place and the surrounding area; ○ environmentally sensitive areas, such as national, provincial and regional parks, ecological reserves, wetlands, estuaries, and habitats of federally or provincially listed species at risk and other sensitive areas; ○ local and Aboriginal communities; and, ○ traditional Aboriginal territories, treaty lands, Indian reserve lands. 	Chapters 3 and 4
Part 2, 1.4 Introduction and	The EIS will identify: <ul style="list-style-type: none"> ○ any federal power, duty or function to be exercised that may permit the carrying out (in whole or in part) of the project or associated activities; 	Chapters 1, 7 and 15

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Overview – Regulatory Framework and Role of Government	<ul style="list-style-type: none"> ○ the environmental and other specific regulatory approvals and legislation that are applicable to the project at the federal, provincial, regional and municipal levels; 	
	<ul style="list-style-type: none"> ○ government policies, resource management, planning or study initiatives pertinent to the project and/or EA and their implications; 	Chapters 7, 8, 10 and 15
	<ul style="list-style-type: none"> ○ any treaty or self-government agreements with Aboriginal groups that are pertinent to the project and/or EA; 	Chapter 4, Section 4.6 Chapter 7, Section 7.7
	<ul style="list-style-type: none"> ○ any relevant land use plans, land zoning, or community plans; and, 	Chapters 4 and 7
	<ul style="list-style-type: none"> ○ a summary of the regional, provincial and/or national objectives, standards or guidelines that have been used by the proponent to assist in the evaluation of any predicted environmental effects. 	Chapter 7
Part 2, 2.1 Project Justification and Alternatives Considered - Purpose of the Project	The proponent will describe the purpose of the project by providing the rationale for the project, explaining the background, the problems or opportunities that the project is intended to satisfy and the stated objectives from the perspective of the proponent.	Chapter 1
	If the objectives of the project are related to, or contribute to broader private or public sector policies, plans or programs, this information will also be included.	Chapter 1
	The proponent will also describe the predicted environmental, economic and social benefits of the project. This information will be considered in assessing the justifiability of any significant adverse residual environmental effects, if such effects are identified.	Chapter 7, Sections 7.5 and 7.6 Chapter 14
Part 2, 2.2 Project Justification and Alternatives Considered	The EIS will identify and consider the effects of alternative means of carrying out the project that are technically and economically feasible.	Chapter 5 Appendix 5-1 and

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
- Alternative Means of Carrying out the Project		Appendix 5-2
	<p>The proponent will complete the following procedural steps for addressing alternative means:</p> <ul style="list-style-type: none"> ○ Identify the alternative means to carry out the project. <ul style="list-style-type: none"> ▪ Develop criteria to determine the technical and economic feasibility of the alternative means; and ▪ Identify those alternative means that are technically and economically feasible, describing each alternative means in sufficient detail. ○ Identify the effects of each technically and economically feasible alternative means. <ul style="list-style-type: none"> ▪ Identify those elements of each alternative means that could produce effects in sufficient detail to allow a comparison with the effects of the project. ○ Identify the preferred means. <ul style="list-style-type: none"> ▪ Identify the preferred means based on the relative consideration of effects; and of technical and economic feasibility; and, ▪ Determine criteria to examine the effects of each remaining alternative means to identify the preferred means. 	Chapter 5 Appendix 5-1 and Appendix 5-2
	<p>In its alternative means analysis, the proponent will address, at a minimum, the following project components:</p> <ul style="list-style-type: none"> ○ location of key project components; ○ energy sources to power the project site; ○ Water management facilities (potable and process) and general site drainage works; and, ○ mine waste disposal (methods and sites considered). 	Chapter 5 Appendix 5-1 and Appendix 5-2
Part 2, 3.1 Project Description –	<p>The proponent will describe the project, by presenting the project components, associated and ancillary works, and other characteristics that will assist in understanding the environmental effects. This will include:</p> <ul style="list-style-type: none"> ○ maps, at an appropriate scale, of the project location, the project 	Chapter 6

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Project Components	<p>components, boundaries of the proposed site with UTM coordinates, the major existing infrastructure, adjacent land uses and any important environmental features;</p> <ul style="list-style-type: none"> ○ tailings management facility (footprint, location and preliminary designs); ○ waste rock, overburden, topsoil, low grade ore storage and stock piles (footprint, locations, volumes, development plans and design criteria); ○ open pit and (footprint, location, development plans including pit phases); ○ crusher, and processing facilities (footprint, technology, location); ○ water management infrastructure including, water management facilities proposed to control, collect and discharge surface drainage and groundwater seepage to the receiving environment from all key components of the mine infrastructure (e.g. pit water and/or underground mine water, mine effluent); ○ permanent and temporary linear infrastructures (road, railroad, pipelines, power supply), identifying the route of each of these linear infrastructures, the location and types of structure used for stream crossings; ○ drinking and industrial water requirements (source, quantity required, need for water treatment); ○ energy supply (source, quantity); and ○ waste disposal (type of waste, method of disposal, quantity). 	
Part 2, 3.2 Project Description – Project Activities	<p>The EIS will include descriptions of the construction, operation, decommissioning and abandonment associated with the proposed project. This will include descriptions of the activities to be carried out during each phase, the location of each activity, expected outputs and an indication of the activity's magnitude and scale.</p>	Chapter 6
	<p>Sufficient information will be included to predict environmental effects and address public concerns identified. Highlight activities that involve periods of increased environmental disturbance or the release of materials into the environment.</p>	Chapters 4-13
	<p>The EIS will include a summary of the changes that have been made to the project since originally proposed, including the benefits of these changes to the environment, Aboriginal peoples, and the public.</p>	Chapter 6, Section 6.4
	<p>The EIS will include a schedule including time of year, frequency, and duration for all project activities.</p>	Chapter 6

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Part 2, 3.2.1-3.2.3 Project Description – Project Activities	For site preparation and construction include a description of: <ul style="list-style-type: none"> ○ site clearing, excavation; ○ blasting (frequency and methods, type of explosive used); ○ borrow materials requirements(source and quantity); ○ water diversion required (location, methods, timing); ○ equipment requirements (type, quantity); ○ administrative buildings, garages, other ancillary facilities; ○ construction camp (location, capacity, wastewater treatment; and, ○ number of employees and transportation of employees. 	Chapter 6, Sections 6.2.1 and 6.2.2
	For operation include a description of: <ul style="list-style-type: none"> ○ mining plan, ore production, ore stockpiling, concentrate production; ○ equipment requirements; ○ explosive uses (storage location and management); ○ blasting (frequency and methods); ○ water management on the project site, including a detailed water budget; ○ ore crushing and treatment; ○ reagent requirements (volumes, storage, types); ○ petroleum products (source, volume, storage); ○ characterization and management of ore, waste rock, low grade ore, overburden and tailings (volumes generated, mineralogical characterization, potential for metal leaching and acid rock drainage); ○ effluent management and treatment (quantity, treatment requirement, release point); ○ contribution to atmospheric emissions, including emissions profile (type, rate and source) ○ water recycling; ○ waste management and recycling (other than mine waste such as tailings and waste rock);and, ○ number of employees, transportation of employees, work schedule, lodging requirement on site and off site. 	Chapter 6, Section 6.2.3
	For decommissioning and abandonment include a description of: <ul style="list-style-type: none"> ○ the preliminary outline of a decommissioning and reclamation plan 	Chapter 6, Sections 6.2.4 and 6.2.5

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	for any components associated with the project; <ul style="list-style-type: none"> ○ the ownership, transfer and control of the different project components; ○ the responsibility for monitoring and maintaining the integrity of the remaining structures; and, ○ for permanent facilities, a conceptual discussion on how decommissioning could occur. 	
Part 2, 4 Public Consultation and Concerns	The proponent shall describe the ongoing and proposed consultations and the information sessions that it will hold or that it has already held in the context of the project at the local, regional and provincial levels, where applicable. It will indicate the methods used, where the consultation was held, the persons and organizations consulted, the concerns voiced and the extent to which this information was incorporated in the design of the project as well as in the EIS.	Chapter 13 Appendix 13-1 and Appendix 13-2
	The proponent will also describe any issues raised or comments noted regarding the nature and sensitivity of the area within and surrounding the project and any planned or existing land and water use in the area.	Chapter 5, Section 5.3 Chapter 6, Section 6.4 Chapter 7, Sections 7.5, 7.6 Chapter 13
	The proponent will indicate the specific geographical areas or ecosystems that are of particular concern to interested parties, and their relation to the broader regional environment and economy.	Chapter 4, Sections 4.4, 4.5 Chapter 7, Sections 7.5, 7.6
	The proponent will also describe any outstanding issues and describe ways to address these outstanding issues.	N/A

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	The proponent will provide a description of efforts made to distribute project information and provide a description of information and materials that were distributed during the consultation process.	Chapter 13 Appendix 13-1 and Appendix 13-2
Part 2, 5 Aboriginal Engagement and Concerns	For the purposes of developing the EIS, the proponent will engage with Aboriginal groups that may be affected by the project, as it relates to: <ul style="list-style-type: none"> o Effects of changes to the environment on Aboriginal peoples (health and socio-economic issues; physical and cultural heritage, including any structure, site or thing that is of historical, archaeological, paleontological or architectural significance; and current use of lands and resources for traditional purposes), and, 	Chapter 7, Sections 7.7.1, 7.7.2, 7.7.3 Chapters 10 and 12 Appendix 12-1 TSDs 14 and 18
	<ul style="list-style-type: none"> o Potential adverse impacts of the project on potential or established Aboriginal or Treaty rights. 	Chapter 16, Section 16.2
	In the EIS, the proponent will document: <ul style="list-style-type: none"> o VCs suggested by Aboriginal groups for inclusion in the EIS, whether or not those factors were included, and the rationale for any exclusions; 	Chapters 4, 7, 8, 10 and 12
	<ul style="list-style-type: none"> o each group's potential or established rights (including geographical extent, nature, frequency, timing), including maps and data sets (e.g. fish catch numbers) when this information is provided by a group to the proponent; 	Chapter 4, Section 4.6
	<ul style="list-style-type: none"> o based on its own perspective, the potential adverse impacts of each of the project components and physical activities, in all phases, on potential or established Aboriginal or Treaty rights. 	Chapter 16, Section 16.2
	<ul style="list-style-type: none"> o This assessment is to be based on a comparison of the exercise of the identified rights between the predicted future conditions with the project and the predicted future conditions without the project; 	Chapter 7, Section 7.7
	<ul style="list-style-type: none"> o the measures identified to mitigate potential adverse impacts of the project on the potential or established Aboriginal or Treaty rights. These measures will be written as specific commitments that clearly describe how the proponent intends to implement them; 	Chapter 7, Section 7.7

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<ul style="list-style-type: none"> ○ specific suggestions raised by Aboriginal groups for mitigating the effects of changes to the environment on Aboriginal peoples or potential adverse impacts of the project on potential or established Aboriginal and Treaty rights; 	Chapter 6, Section 6.4.2 Chapter 7, Section 7.7 Chapter 12
	<ul style="list-style-type: none"> ○ views expressed by Aboriginal groups on the effectiveness of the mitigation measures; 	Chapter 6, Section 6.4.2 Chapter 12
	<ul style="list-style-type: none"> ○ any potential cultural, social and/or economic impacts or benefits to Aboriginal groups that may arise as a result of the project; 	Chapter 7, Section 7.7.1
	<ul style="list-style-type: none"> ○ comments, specific issues and concerns raised by Aboriginal groups and how the key concerns were responded to or addressed; 	Chapter 6, Section 6.4.2 Chapter 12 Appendix 12-1
	<ul style="list-style-type: none"> ○ changes made to the project design and implementation directly as a result of discussions with Aboriginal groups; 	Chapter 6, Section 6.4.2 Chapter 12
	<ul style="list-style-type: none"> ○ where and how Aboriginal traditional knowledge was incorporated into the consideration of effects of changes to the environment on Aboriginal peoples, potential adverse impacts on potential or established Aboriginal or Treaty rights and related mitigation measures; 	Chapter 4, Section 4.6 Chapter 7, Section 7.7 Chapter 16, Section 16.2
	<ul style="list-style-type: none"> ○ the effects of changes to the environment on Aboriginal peoples or potential adverse impacts on potential or established Aboriginal or Treaty rights that have not been fully mitigated as part of the environmental assessment and associated engagement with Aboriginal groups, 	N/A
	<ul style="list-style-type: none"> ○ including the potential adverse effects that may result from the residual and cumulative environmental effects; and, 	Chapter 11
	<ul style="list-style-type: none"> ○ any additional issues and concerns raised by Aboriginal groups in relation to the effects of changes to the environment on Aboriginal peoples and the potential adverse impacts of the project on potential or established Aboriginal and Treaty rights and mitigation measures. 	Chapter 12 Appendix 12-1

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>With respect to engagement activities, the EIS will document:</p> <ul style="list-style-type: none"> ○ the engagement activities undertaken with Aboriginal groups prior to the submission of the EIS, including the date and means of engagement (e.g., meeting, mail, telephone); ○ any future planned engagement activities; and, ○ how its engagement activities allowed Aboriginal groups to understand the project and evaluate its effects on their communities, activities, potential or established Aboriginal or Treaty rights and any other interests. 	<p>Chapter 4, Section 4.6</p> <p>Chapter 7, Section 7.7</p> <p>Chapter 12</p> <p>Appendix 12-1 Appendix 12-2</p>
	<p>In preparing the EIS, the proponent will ensure that Aboriginal groups have access to timely and relevant information that they require in respect of the project and how the project may adversely impact them.</p>	<p>Chapter 12</p> <p>Appendix 12-1 Appendix 12-2</p>
	<p>The proponent will structure its Aboriginal engagement activities to provide adequate time for Aboriginal groups to review and comment on the relevant information.</p>	<p>Chapter 12</p> <p>Appendix 12-1 Appendix 12-2</p>
	<p>The proponent will describe all efforts, successful or not, taken to solicit the information required from Aboriginal groups in the preparation of the EIS.</p>	<p>Chapter 12</p> <p>Appendix 12-1 Appendix 12-2</p>
	<p>The proponent will ensure that Aboriginal groups' views are heard and recorded. The proponent will keep detailed tracking records of its engagement activities, recording all interactions with Aboriginal groups, the issues raised by each Aboriginal group and how the proponent addressed the concerns raised. The proponent will share these records with the Agency.</p>	<p>Chapter 12</p> <p>Appendix 12-1 Appendix 12-2</p>
	<p>The proponent will hold meetings with the following potentially affected Aboriginal groups and facilitate these meetings by making key EA summary</p>	<p>Chapter 12</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>documents (baseline studies, EIS, key findings, plain language summaries) accessible:</p> <ul style="list-style-type: none"> ○ Michipicoten First Nation; ○ Pic Moberg First Nation; ○ Missanabie Cree First Nation; ○ Métis Nation of Ontario; and, ○ Red Sky Métis Independent Nation. 	<p>Appendix 12-1 Appendix 12-2</p>
	<p>The proponent will ensure there are sufficient opportunities for individuals and groups to provide oral input in the language of their choice.</p>	<p>Prodigy Gold offered to provide / make available translation services to Aboriginal groups.</p>
<p>Part 2, 6 Project Effects Assessment</p>	<p>The proponent will present baseline information in sufficient detail to facilitate the identification and a good understanding of how the project could affect the various valued components (VCs). Should other VCs be identified during the conduct of the EA, the baseline condition for these components will also be described in the EIS.</p>	<p>Chapters 4 and 8 TSDs 1-17</p>
<p>Part 2, 6.1.1 Project Effects Assessment – Air Quality, Noise and Climate</p>	<p>Include a description of Air quality, noise and climate</p> <ul style="list-style-type: none"> ○ ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: total suspended particulates, PM_{2.5}, PM-10, SO_x, VOCs and NO_x; ○ current ambient noise levels at key receptor points (e.g. aboriginal communities, cabins), including the results of a baseline ambient noise survey. Information on typical sound sources, geographic extent and temporal variations will be included; ○ existing ambient night-time light levels at the project site and at any other areas where project activities could have an effect on light levels. The EIS will describe night-time illumination levels during different weather conditions and seasons; and, ○ historical records of total precipitation (rain and snow), mean, max and min 	<p>Chapter 4, Section 4.1 TSDs 9-13</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	temperatures.	
Part 2, 6.1.2 Project Effects Assessment – Geology and Geochemistry	Include a description of Geology and geochemistry <ul style="list-style-type: none"> ○ the bedrock and host rock geology of the deposit, including a table of geologic descriptions, geological maps and cross-sections of appropriate scale; ○ geomorphology, topography and geotechnical characteristics of areas proposed for construction of major project components; ○ the geochemical characterization of expected mine material such as waste rock, ore, low grade ore, tailings, overburden and potential construction material in order to predict metal leaching and acid rock drainage; and, ○ geological hazards that exist in the areas planned for the project facilities and infrastructure, including: <ul style="list-style-type: none"> ▪ history of seismic activity in the area; ▪ isostatic rise or subsidence; and, ▪ landslides, slope erosion and the potential for ground and rock instability, and subsidence following project activities. 	Chapter 4, Sections 4.2.5 and 4.2.6 TSDs 1, 2 and 5
Part 2, 6.1.3 Project Effects Assessment – Topography and Soil	Include a description of Topography and soil <ul style="list-style-type: none"> ○ baseline mapping and description of landforms and soils within the local and regional project area; ○ maps depicting soil depth by horizon and soil order within the mine site area to support soil salvage and reclamation efforts, and to outline potential for soil erosion; ○ sedimentological and geochemical characteristics of surficial sedimentary units and soils; ○ suitability of topsoil and overburden for use in the rehabilitation of disturbed areas; and, ○ data on the concentration of trace elements in site soils prior to project development. 	Chapter 4, Section 4.2.3 TSD 1
Part 2, 6.1.4 Project Effects	Include a description of Groundwater: <ul style="list-style-type: none"> ○ the hydrogeology, including: <ul style="list-style-type: none"> ▪ the hydrogeological context (e.g., hydrostratigraphy with aquifers 	Chapter 4, Section 4.2.7

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
Assessment – Groundwater	<p>and aquitards, major faults, etc.) including the delineation of key stratigraphic and hydrogeologic boundaries;</p> <ul style="list-style-type: none"> ▪ the physical properties of the hydrogeological units (e.g., hydraulic conductivity, transmissivity, saturated thickness, storativity, porosity, specific yield); ▪ the groundwater flow patterns and rates; ▪ a discussion of the hydrogeologic, hydrologic, geomorphic, climatic and anthropogenic controls on groundwater flow; ▪ temporal changes in groundwater flow (e.g., seasonal and long term changes in water levels); and, ▪ a delineation and characterization of groundwater surface water interactions including the locations of groundwater discharge to surface water and surface water recharge to groundwater. <ul style="list-style-type: none"> ○ hydrogeological maps and cross-sections for the mine area to outline the extent of aquifers and aquitards, including bedrock fracture and fault zones, locations and depths of wells, groundwater types springs, surface waters, and project facilities. Groundwater levels, potentiometric contours, flow directions, groundwater divides and areas of recharge and discharge should be included; ○ all groundwater monitoring wells, including their location, in respect to the project area, including geologic, hydrostratigraphic, piezometric and construction data (e.g., depths of surficial and bedrock units, water level, hydraulic conductivity, diameter and screen depth and intercepted aquifer unit); ○ monitoring protocol for collection of existing groundwater data; ○ an appropriate hydrogeologic model for the project area, which discusses the hydrostratigraphy and groundwater flow systems; a sensitivity analysis will be performed to test model sensitivity to climatic variations (e.g., recharge) and hydrogeologic parameters (e.g., hydraulic conductivity); ○ graphs or tables indicating the seasonal variations in groundwater levels, flow regime, and quality; ○ local and regional potable groundwater supplies, including their current use 	TSD 1 and 4

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>and potential for future use; and,</p> <ul style="list-style-type: none"> ○ bedrock fracture sizes and orientations in relation to groundwater flow. 	
<p>Part 2, 6.1.5</p> <p>Project Effects Assessment – Surface Water and Sediment</p>	<p>Include a description of Surface water and sediment:</p> <ul style="list-style-type: none"> ○ the delineation of drainage basins, at appropriate scales (water bodies and watercourses), including intermittent streams, flood risk areas and wetlands, boundaries of the watershed and subwatersheds, overlaid by key project components; ○ hydrological regimes, including monthly, seasonal and annual water flow (discharge) data; ○ for each affected water body, the total surface area, bathymetry, maximum and mean depths, water level fluctuations, type of substrate (sediments); ○ seasonal water quality field and lab analytical results (e.g. water temperature, turbidity, pH, dissolved oxygen profiles) and interpretation at several representative local stream and water body monitoring stations established at the project site; ○ any local and regional potable surface water resource; and, ○ sediment quality analysis for key sites likely to receive mine effluents. 	<p>Chapter 4, Sections 4.2.8 to 4.2.10</p> <p>TSDs 3, 7 and 16</p>
<p>Part 2, 6.1.6</p> <p>Project Effects Assessment – Fish and Fish Habitat</p>	<p>Include a description of Fish and fish habitat:</p> <ul style="list-style-type: none"> ○ a characterization of fish populations on the basis of species and life stage, including information on the surveys carried out and the source of data available (e.g. location of sampling stations, catch methods, date of catches, species); ○ a list of any rare fish or invertebrate species that are known to be present; ○ a description of the habitat by homogeneous section, including the length of the section, width of the channel from the high water mark (bankful width), water depths, type of substrate (sediments), aquatic and riparian vegetation, and photos; ○ a description of natural obstacles (e.g. falls, beaver dams) or existing structures (e.g. water crossings) that hinder the free passage of fish; ○ maps, at a suitable scale, indicating the surface area of potential or confirmed fish habitat for spawning, nursery, feeding, overwintering, migration routes, etc. This information should be linked to water depths (bathymetry) to identify the extent of a water body’s littoral zone; and, 	<p>Chapter 4, Section 4.3.4</p> <p>TSD 15</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<ul style="list-style-type: none"> ○ the description and location of suitable habitats for fish species at risk that appear on federal and provincial lists and that are found or are likely to be found in the study area. 	
<p>Part 2, 6.1.7</p> <p>Project Effects Assessment – Birds, Wildlife and their Habitat</p>	<p>Include a description of Birds, wildlife and their habitat:</p> <ul style="list-style-type: none"> ○ the various ecosystems found in the project area likely to be affected based on existing information; ○ migratory and non-migratory birds (including waterfowl, raptors, shorebirds, marsh birds and other land birds); ○ year-round migratory bird use of the area (e.g., winter, spring migration, breeding season, fall migration), based on preliminary data from existing sources; ○ areas of concentration of migratory animals, such as breeding, denning and/or wintering areas; ○ ungulates, furbearers, amphibians, small mammals, and their habitat; ○ existing or proposed protected areas, special management areas, and conservation areas in the regional study area; ○ wetlands most likely to be affected by project activities according to their location, size, type (wetland class and form), species composition and ecological function (Canadian Wetland Classification System, National Wetlands Working Group, 1997); ○ key plant communities and animals that rely on wetlands; ○ submerged floating and emergent aquatic vegetation; ○ all species at risk that may be affected by the project, (flora and fauna), including species listed under the <i>Species at Risk Act</i> or other provincial endangered species legislation, and critical habitat that may be affected by the project, using existing data and literature as well as surveys to provide current field data, as appropriate; ○ any published studies that describe the regional importance, abundance and distribution of species at risk; and, ○ residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and/or recovery habitat (where applicable) and general life history of species at risk that may occur in the project area, or be affected by the project. 	<p>Chapter 4, Sections 4.3.7 to 4.3.10</p> <p>TSD 17</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
<p>Part 2, 6.1.8</p> <p>Project Effects Assessment – Human Environment</p>	<p>Include a description of the human environment:</p> <ul style="list-style-type: none"> ○ the rural and urban settings likely to be affected by the project; ○ any federal lands, lands located outside the province or Canada that may be affected by the project; ○ the current use of land in the study area, including a description of hunting, recreational and commercial fishing, trapping, gathering, outdoor recreation, use of seasonal cabins, outfitters; ○ current use of all waterways and water bodies that will be directly affected by the project, including recreational uses, where available; ○ location of and proximity of any permanent, seasonal or temporary residences or camps; ○ health and socio-economic conditions, including the functioning and health of the socio- economic environment, encompassing a broad range of matters that affect communities in the study area in a way that recognizes interrelationships, system functions and vulnerabilities; and, ○ physical and cultural heritage, including structures, sites or things of historical, archaeological, paleontological or architectural significance. 	<p>Chapter 3</p> <p>Chapter 4, Sections 4.4, 4.5, 4.6</p> <p>TSD 18</p>
<p>Part 2, 6.1.9</p> <p>Project Effects Assessment – Aboriginal Peoples</p>	<p>Include a description of Aboriginal Peoples:</p> <ul style="list-style-type: none"> ○ drinking water sources (permanent and seasonal, periodic, or temporary); ○ reliance on country foods; ○ any other relevant exposure pathways that could affect the health; ○ general social and economic conditions of the community/Aboriginal group; ○ location of reserves and communities; ○ commercial harvesting activities (e.g. fishing, trapping, hunting, forestry, outfitting); ○ recreational uses of the project area; ○ all traditional uses currently practiced that could be affected by the project; ○ places where fish, wildlife and plants are harvested; ○ fish, wildlife and plants of importance for traditional use; ○ access and travel routes for conducting traditional practices; ○ location of hunting camps and cabins; ○ location of traditional territory; ○ ancillary benefits to the traditional practices including transfer of culture and 	<p>Chapter 3</p> <p>Chapter 4, Section 4.3, 4.4, 4.5, 4.6</p> <p>Chapter 10</p> <p>TSDs 14 and 18</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>language;</p> <ul style="list-style-type: none"> ○ physical and cultural heritage (including any site, structure or thing of archaeological, paleontological, historical or architectural significance); and ○ culturally important sites, structures, objects and landscapes (e.g. burial sites, spiritual places). 	
	<p>With respect to potential effects on Aboriginal peoples and the related VCs, baseline information will be provided for each Aboriginal group identified in section 5.</p>	<p>Chapter 4, Section 4.6</p>
	<p>The EIS will also indicate how input from Aboriginal groups was used in establishing the baseline conditions related to health and socio-economics, physical and cultural heritage and current use of lands and resources for traditional purposes.</p>	<p>Chapter 4, Section 4.6 Chapter 12 TSD 18</p>
<p>Part 2, 6.2.1 Effects to be Considered – Air Quality, Noise and Climate</p>	<p>Consider Air quality, Noise and Climate:</p> <ul style="list-style-type: none"> ○ effects on air quality at key receptor points; ○ increase noise and disturbance for key receptors, including wildlife; ○ effect on night-time light levels; and, ○ the contribution to total provincial and national greenhouse gas emissions on an annual basis. 	<p>Chapter 7, Section 7.2 TSDs 9-13</p>
<p>Part 2, 6.2.2 Effects to be Considered – Water</p>	<p>Consider Water:</p> <ul style="list-style-type: none"> ○ modification to turbidity, oxygen level, water temperature, ice regime, water quality; ○ modifications to the hydrological and hydrometric conditions; ○ changes to groundwater recharge/discharge areas and any changes to groundwater infiltration areas; and, ○ a prediction of acid rock drainage and metal leaching potential link to the storage of waste rock, ore, low grade ore, tailings, overburden and potential construction material, including: <ul style="list-style-type: none"> ▪ short term metal leaching properties; ▪ longer term rates of acid generation (if any) and metal leaching; 	<p>Chapter 7, Section 7.3 TSDs 3-7 and 16</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<ul style="list-style-type: none"> ▪ estimates of the potential for mined materials (including waste rock, tailings and low grade ore) to be sources of acid rock drainage or metal leaching; ▪ estimates of potential time to the onset of acid rock drainage or metal leaching; ▪ quantity and quality of effluent from samples of tailings, waste rock, and ore; ▪ quantity and quality of effluent to be released from the site into the receiving waters; ▪ quality of humidity cell or column test liquid from acid rock testing; ▪ sensitivity analysis to assess the effects of imperfect segregation of waste rock; ▪ pit water chemistry during operation and decommissioning and abandonment (post- closure), and pit closure management measures (e.g. flooding). This will include geochemical modelling of pit water quality in the post-closure period; and ▪ surface and seepage water quality from the waste rock dumps, tailings/waste rock impoundment facility, stockpiles and other infrastructure during operation and post- closure. 	
<p>Part 2, 6.2.3</p> <p>Effects to be Considered – Fish and Fish Habitat</p>	<p>Consider Fish and Fish Habitat:</p> <ul style="list-style-type: none"> ○ the identification of any potential harmful alteration, disruption or destruction of fish habitat, including the calculations of any potential habitat loss (temporary or permanent) in terms of surface areas (e.g. spawning grounds, fry-rearing areas, feeding), and in relation to watershed availability and significance. The assessment will include a consideration of: <ul style="list-style-type: none"> ▪ the geomorphological changes and their effects on hydrodynamic conditions and fish habitats (e.g. modification of substrates, dynamic imbalance, silting of spawning beds); ▪ the modifications of hydrological and hydrometric conditions on fish habitat and on the fish species' life cycle activities (e.g. reproduction, fry-rearing, movements); ▪ potential impacts on riparian areas that could affect aquatic 	<p>Chapter 7, Sections 7.2.3 and 7.4.1</p> <p>TSDs 12 and 15</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>biological resources and productivity taking into account any anticipated modifications to fish habitat; and</p> <ul style="list-style-type: none"> ▪ any potential imbalances in the food web in relation to baseline; <p>○ the effects of changes to the aquatic environment on fish and their habitat, including;</p> <ul style="list-style-type: none"> ▪ the anticipated changes in the composition and characteristics of the populations of various fish species, included shellfish and forage fish; ▪ any modifications in migration or local movements (upstream and downstream migration, and lateral movements) following the construction and operation of works (physical and hydraulic barrier; ▪ any reduction in fish populations as a result of potential overfishing due to increased access to the project area; and, ▪ any modifications and use of habitats by federally or provincially listed fish species. <p>○ a discussion of how project construction timing correlates to key fisheries windows for freshwater and anadromous species, and any potential impacts resulting from overlapping periods; and,</p> <p>○ a discussion of how vibration caused by blasting may affect fish behaviour, such as spawning or migrations.</p>	
<p>Part 2, 6.2.4</p> <p>Effects to be Considered – Bird, Wildlife and their Habitat</p>	<p>Consider Bird, Wildlife and their Habitat:</p> <ul style="list-style-type: none"> ○ losses, structural changes, fragmentation of habitat and wetlands (cover types, ecological land unit in terms of quality, quantity, diversity, distribution and functions); ○ where plant communities or ecological land unit classes are identified as rare, or where a significant percentage of a specific type may be removed by the project or fragmented by the disturbance footprint, describe the regional significance of those units and the anticipated effects; ○ effects on parks, ecological reserves, management areas, conservancies, unique and sensitive ecological sites, wetlands, areas of concentrated use by wildlife, known and potential migration routes; ○ any anticipated modification to bird and wildlife distribution, relative 	<p>Chapter 7 Sections 7.4.4 to 7.4.7</p> <p>TSD 17</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>abundance, movements, habitat availability;</p> <ul style="list-style-type: none"> ○ direct bird or wildlife mortality that could be caused by clearing of sites or birds and wildlife being in contact with contaminated waters (e.g., tailing impoundment area); ○ collision risk of migratory birds with any project infrastructures; ○ indirect effects caused by increased disturbance (e.g. noise, light, presence of workers); ○ an assessment of the potential to return the affected areas to pre-disturbance conditions and population levels; and, ○ for each habitat unit, the potential effects of the project on provincially and federally listed species at risk (flora and fauna) and their critical habitat, including: <ul style="list-style-type: none"> ▪ species listed by the Committee on the Status of Endangered Wildlife in Canada classification as endangered, threatened, or of special concern; ▪ species listed on Schedule 1 of the federal <i>Species at Risk Act</i>; and, ▪ provincially listed species. 	
<p>Part 2, 6.2.5</p> <p>Effects to be Considered – Human Environment</p>	<p>Consider the Human Environment:</p> <ul style="list-style-type: none"> ○ any effect resulting from increased traffic; ○ any effects on land uses, including a description of how a modification to the access to the area may affect use of the project area; ○ any effects of environmental changes on local socio-economics issues, including potential effects on : <ul style="list-style-type: none"> ▪ the use of navigable waters; ▪ forestry and logging operations; ▪ hunting, trapping, and gathering activities; ▪ commercial and recreational fisheries; ▪ recreational use of the area by individuals and outfitters; and, ▪ on the recreational interest and potential of the area, including a consideration of the modification made to the aesthetic value of the area; ○ any effects on human health associated with air quality, potential contamination of country foods, drinking water quality, noise exposure and 	<p>Chapter 7, Sections 7.5 and 7.6</p> <p>Chapter 10</p> <p>TSD 14</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>radiation exposure. When risks to human health due to changes in one or more of these components are predicted, a complete Human Health Risk Assessment (HHRA) examining all exposure pathways for pollutants of concern may be necessary to adequately characterize potential risks to human health; and, any effects on the physical and cultural heritage, or any structure, site or thing that is of historical, archaeological, paleontological or architectural significance.</p>	
<p>Part 2, 6.2.6 Effects to be Considered – Effects of Changes to the Environment on Aboriginal Peoples</p>	<p>Consider effects of changes to the environment on Aboriginal peoples:</p> <ul style="list-style-type: none"> ○ human health, considering potential decrease in air quality, potential contamination of country foods, drinking water quality, and noise exposure. When risks to human health due to changes in one or more of these components are predicted, a complete Human Health Risk Assessment (HHRA) examining all exposure pathways for pollutants of concern may be necessary to adequately characterize potential risks to human health; ○ socio-economic conditions, including but not limited to; <ul style="list-style-type: none"> ▪ the use of navigable waters; ▪ forestry and logging operations; ▪ commercial fishing, hunting, trapping, and gathering activities; ▪ commercial outfitters; and, ▪ recreational use. ○ the current uses of land and resources for traditional purposes, including, but not limited to: <ul style="list-style-type: none"> ▪ any effects on hunting, fishing, trapping, cultural and other traditional uses of the land (e.g. collection of medicinal plants, use of sacred sites), as well as related effects on lifestyle, culture and quality of life of Aboriginal groups; ▪ any effects of alterations to access into the area on Aboriginal groups, including deactivation or reclamation of access roads; ▪ how project construction timing correlates to the timing of traditional practices, and any potential impacts resulting from overlapping periods; ▪ the regional significance of the traditional use of the project area 	<p>Chapter 7, Sections 7.6 (land use, tourism, and commercial activities) and 7.7 (Aboriginal Interests)</p> <p>Chapter 10</p> <p>TSDs 14 and 18</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>and the anticipated effects to traditional practice of the Aboriginal group, including alienation of lands from Aboriginal traditional use;</p> <ul style="list-style-type: none"> ▪ indirect effects such as avoidance of the area by Aboriginal peoples due to increased disturbance (e.g. noise, presence of workers); and. ▪ an assessment of the potential to return affected areas to pre-disturbance conditions to support traditional practices; <p>○ physical and cultural heritages, and structure, site or thing of historical, archaeological, paleontological or architectural significance to Aboriginal groups, including, but not limited to:</p> <ul style="list-style-type: none"> ▪ the loss or destruction of physical and cultural heritage; and, ▪ changes to access to physical and cultural heritage. 	
<p>Part 2, 6.2.7</p> <p>Effects to be Considered – Effects of Potential Accidents or Malfunctions</p>	<p>The proponent will conduct an analysis of the risks of accidents and malfunctions, determine their effects and present a preliminary emergency measures.</p>	<p>Chapter 8</p>
	<p>The proponent will identify the probability of potential accidents and malfunctions related to the project, including an explanation of how those events were identified, potential consequences (including the environmental effects), the plausible worst case scenarios and the effects of these scenarios.</p>	<p>Chapter 8</p>
	<p>This assessment will include an identification of the magnitude of an accident and/or malfunction, including the quantity, mechanism, rate, form and characteristics of the contaminants and other materials likely to be released into the environment during the accident and malfunction events.</p>	<p>Chapter 8</p>
	<p>The EIS will describe the safeguards that have been established to protect against such occurrences and the contingency and emergency response procedures in place if such events do occur.</p>	<p>Chapter 8</p>
<p>Part 2, 6.2.8</p> <p>Effects to be Considered</p>	<p>The EIS will take into account how local conditions and natural hazards, such as severe and/or extreme weather conditions and external events (e.g. flooding, drought, ice jams, landslides, avalanches, erosion, subsidence, fire, outflow</p>	<p>Chapter 9</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
– Effects of the Environment on the Project	conditions and seismic events) could adversely affect the project and how this in turn could result in impacts to the environment (e.g., extreme environmental conditions result in malfunctions and accidental events). These events will be considered in different probability patterns (i.e. 5-year flood vs. 100-year flood). Longer-term effects of climate change will also be discussed up to the projected post-closure phase of the project. This discussion will include a description of climate data used.	TSD 10
	The EIS will provide details of planning, design and construction strategies intended to minimize the potential environmental effects of the environment on the project.	Chapters 6 and 9
Part 2, 6.3 Mitigation	Consider clear, enforceable measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the project.	Chapters 6, 7, 8, 10 and 16 TSD 20
	The EIS will describe the standard mitigation practices, policies and commitments that constitute technically and economically feasible mitigation measures and that will be applied as part of standard practice regardless of location (including the measures directed at promoting beneficial or mitigating adverse socio-economic effects.	Chapters 6, 7, 8, 10 and 16 TSD 20
	The proponent will then describe its environmental protection plan and its environmental management system, through which it will deliver this plan. The plan will provide an overall perspective on how potentially adverse effects would be minimized and managed over time.	Chapter 16 TSD 20
	The EIS will further discuss the mechanisms the proponent would use to require its contractors and sub-contractors to comply with these commitments and policies and with auditing and enforcement programs.	Chapters 6, 7 and 16 TSD 20
	The EIS will then describe mitigation measures that are specific to each environmental effect identified. Measures will be written as specific commitments that clearly describe how the proponent intends to implement them.	Chapters 6, 7, 8, 10 and 16

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
		TSD 20
	Where mitigation measures have been identified in relation to species and/or critical habitat listed under the <i>Species at Risk Act</i> , the mitigation measures will be consistent with any applicable recovery strategy and action plans.	Chapter 6, Section 6.5 Chapter 7, Section 7.4.7
	The EIS will specify the actions, works, minimal disturbance footprint techniques, best available technology, corrective measures or additions planned during the project's various phases to eliminate or reduce the significance of adverse effects.	Chapters 6 and 7
	The EIS will indicate what other technically and economically feasible mitigation measures were considered, and explain why they were rejected. Trade-offs between cost savings and effectiveness of the various forms of mitigation will be justified.	Chapter 5
	The EIS will identify who is responsible for the implementation of these measures and the system of accountability.	Chapters 6 , 7, 8 and 16 TSD 20
	Where mitigation measures are proposed to be implemented for which there is little experience or for which there is some question as to their effectiveness, the potential risks and effects to the environment should those measures not be effective will be clearly and concisely described.	Chapters 6 , 7, 8 and 16 TSD 20
	The EIS will identify the extent to which technology innovations will help mitigate environmental effects.	N/A
	Where possible, the EIS will provide detailed information on the nature of these measures, their implementation, management and the requirements of the follow-up program.	N/A
	Adaptive management is not considered a valid mitigation measure, but if the follow-up program indicates that corrective action is required, the proposed	Chapters 6, 7, 8

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	approach for managing the response should be identified.	and 16 TSD 20
Part 2, 6.4 Significance of Residual Effects	The EIS will present any residual environmental effects of the project on the biophysical and human environments. The residual effects, even if very small or deemed insignificant will be described.	Chapters 7, 8, 10 and 11
	The EIS will then provide a detailed analysis of the significance of the residual environmental effects that are considered adverse, using guidance described in section 4 of the Agency's reference guide <i>Determining Whether a Project is Likely to Cause Significant Adverse Environmental Effects</i> .	Chapters 7, 8, 10 and 11
	The EIS will identify the criteria used to assign significance ratings to any predicted adverse effects. It will contain clear and sufficient information to enable the Agency, technical and regulatory agencies, Aboriginal groups and the public to review the proponent's analysis of the significance of effects.	Chapters 7, 8, 10 and 11
	The proponent will define the terms used to describe the level of significance.	Chapters 7, 8, 10 and 11
	The following elements should be used in determining the significance of residual effects: <ul style="list-style-type: none"> o magnitude; o geographic extent; o duration; o frequency; o reversibility; o ecological and social context; and, o existence of environmental standards, guidelines or objectives for assessing the impact. 	Chapter 7, Section 7.1 Chapters 7, 8 and 10
	In assessing significance against these criteria the proponent will, where possible, use relevant existing regulatory documents, environmental standards, guidelines, or objectives such as prescribed maximum levels of emissions or	Chapters 7, 8, 10 and 11

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	discharges of specific hazardous agents into the environment.	
	The EIS will contain a section which explains the assumptions, definitions and limits to the criteria mentioned above in order to maintain consistency between the effects on each VC.	Chapters 7, 8, 10 and 11
	Where significant adverse effects are identified, the EIS will set out the probability (likelihood) that they will occur, and describe the degree of scientific uncertainty related to the data and methods used within the framework of its environmental analysis.	Chapters 7, 8, 10 and 11
Part 2, 7 Cumulative Effects	The proponent will identify and assess the project's cumulative effects using the approach described in the Agency's Operational Policy Statement entitled <i>Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act, 2012</i> and the guide entitled <i>Cumulative Effects Assessment Practitioners' Guide, 1999</i> .	Chapter 11
	In its EIS, the proponent will: <ul style="list-style-type: none"> ○ Identify and justify the environmental components that will constitute the focus of the cumulative effects assessment. The proponent's assessment should emphasize the cumulative effects on the main VCs that could potentially be most affected by any components of the project. To this end, the proponent must consider, without limiting itself thereto, the following components likely to be affected by the project: ○ Identify and justify the spatial and temporal boundaries for the cumulative effect assessment for each VC selected. The boundaries for the cumulative effects assessments will generally be different for different effects considered. These cumulative effects boundaries will also generally be larger than the boundaries for the corresponding project effects; ○ Identify the sources of potential cumulative effects. Specify other projects or activities that have been or that are likely to be carried out that could cause effects on each selected VC within the boundaries defined, and whose effects would act in combination with the residual effects of the project. This assessment may consider the results of any relevant study conducted by a committee established under section 73 or 74 of CEEA 2012; ○ Describe the mitigation measures that are technically and 	Chapter 11 TSD 20

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<p>economically feasible. The proponent shall assess the effectiveness of the measures applied to mitigate the cumulative effects. In cases where measures exist that are beyond the scope of the proponent's responsibility that could be effectively applied to mitigate these effects, the proponent shall identify these effects and the parties that have the authority to act. In such cases, the proponent shall summarize the discussions that took place with the other parties in order to implement the necessary measures over the long term;</p> <ul style="list-style-type: none"> ○ Determine the significance of the cumulative effects; and, ○ Develop a follow-up program to verify the accuracy of the assessment or to dispel the uncertainty concerning the effectiveness of mitigation measures for certain cumulative effects. 	
<p>Part 2, 8 Summary of Effects Assessment</p>	<p>The EIS will contain a table summarising the following key information:</p> <ul style="list-style-type: none"> ○ potential environmental effects; ○ proposed mitigation measures to address the effects identified above; and, ○ potential residual effects and the significance of the residual environmental effects. 	<p>Chapters 6 and 7 TSD 20</p>
	<p>The proponent will summarize all key mitigation measures and commitments which will more specifically mitigate any significant adverse effects of the project (i.e., those measures that are essential to ensure that the project will not result in significant adverse environmental effects).</p>	<p>Chapter 6, Section 6.5</p>
<p>Part 2, 9.1 Follow-up and Monitoring Programs – Follow-up Program</p>	<p>The EIS shall present a preliminary follow-up program in particular for areas where scientific uncertainty exists in the prediction of effects. This program shall include:</p> <ul style="list-style-type: none"> ○ objectives of the follow-up program and the VCs targeted by the program; ○ list of elements requiring follow-up; ○ number of follow-up studies planned as well as their main characteristics (list of the parameters to be measured, planned implementation timetable, etc.); ○ intervention mechanism used in the event that an unexpected deterioration of the environment is observed; ○ mechanism to disseminate follow-up results among the concerned populations; 	<p>Chapters 7 and 16 TSD 20</p>

Section of the Environmental Impact Statement Guidelines	Summary of Environmental Impact Statement Guideline Requirements	Section of the Environmental Impact Statement
	<ul style="list-style-type: none"> ○ accessibility and sharing of data for the general population; ○ opportunity for the proponent to take advantage of the participation of stakeholders on the affected territory, during the implementation of the program; and, ○ involvement of local and regional organizations in the design, implementation and evaluation of the follow-up results as well as any updates, including a communication mechanism between these organizations and the proponent. 	
Part 2, 9.2 Follow-up and Monitoring Programs – Monitoring	The proponent will prepare an environmental monitoring program for all phases of the project.	Chapters 7 and 16 TSD 20
	Specifically, the environmental impact statement shall present an outline of the preliminary environmental monitoring program, including the: <ul style="list-style-type: none"> ○ identification of the interventions that pose risks to one or more of the components and the measures and means planned to protect the environment; ○ description of the characteristics of the monitoring program where foreseeable (e.g., location of interventions, planned protocols, list of measured parameters, analytical methods employed, schedule, human and financial resources required); ○ description of the proponent’s intervention mechanisms in the event of the observation of non- compliance with the legal and environmental requirements or with the obligations imposed on contractors by the environmental provisions of their contracts; ○ guidelines for preparing monitoring reports (number, content, frequency, format) that will be sent to the authorities concerned. 	Chapters 7 and 16 TSD 20