

APPENDIX B

Table of Concordance with EIS Guidelines

Bay du Nord Development Project Environmental Impact Statement

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GUIDELINES FOR THE PREPARATION OF AN ENVIRONMENTAL IMPACT STATEMENT
 pursuant to the *Canadian Environmental Assessment Act, 2012*
Bay du Nord Development Project
Equinor Canada Ltd.

Bay du Nord Development Project EIS Guidelines	EIS Reference
1. INTRODUCTION	
The EIS must include a full description of the changes the project will cause to the environment that may result in adverse effects on areas of federal jurisdiction (i.e. section 5 of CEEA 2012) including changes that are directly linked or necessarily incidental to any federal decisions that would permit the project to be carried out.	Chapters 8 to 16
The EIS must also include a list of key mitigation measures that the proponent proposes to undertake in order to avoid or minimize any adverse environmental effects of the project. It is the responsibility of the proponent to provide sufficient data and analysis on potential changes to the environment to ensure a thorough evaluation of the environmental effects of the project by the Agency or review panel.	Section 2.10, 8.4, 9.1.5.2, 10.1.5.2, 11.1.5.2, 12.1.5.2, 13.1.5.2, 14.1.5.3, 16.1, 16.7.2, 18.2
2. GUIDING PRINCIPLES	
2.1. Environmental assessment as a planning and decision-making tool	
An EA: <ul style="list-style-type: none"> • identifies potential adverse environmental effects; • proposes measures to mitigate adverse environmental effects; • predicts whether there will be significant adverse environmental effects, after mitigation measures are implemented; and • includes a follow-up program to verify the accuracy of the EA and the effectiveness of the mitigation measures. 	Throughout the EIS Document
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 3; Section 1.4

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2.3. Engagement with Indigenous groups	
<p>The proponent is expected to engage with potentially affected Indigenous groups starting as early as possible in the project planning process in order to:</p> <ul style="list-style-type: none"> • Fulfil the statutory obligations of CEAA 2012 to assess environmental effects of the proposed Project on Aboriginal peoples; and • Assist the Agency in fulfilling the Crown's constitutional obligations to consult with potentially impacted Indigenous groups on potential impacts to potential or established Aboriginal or Treaty rights, and where impacts cannot be avoided or mitigated, to accommodate prior to taking any decision or action that may impact potential or established Aboriginal and Treaty rights. 	Chapter 3
<p>The proponent is expected to work with potentially-affected Indigenous groups to establish an engagement approach.</p>	Chapter 3
<p>The proponent is also expected to make reasonable efforts to integrate Indigenous knowledge into the assessment of environmental effects.</p>	Chapter 3, 4; Section 7.3
<p>The proponent will make reasonable efforts to collaborate with potentially-affected Indigenous groups to collect the Indigenous Knowledge early in the EA process so that it may be meaningfully incorporated into the assessment of environmental effects. Examples of specific areas where Indigenous knowledge could be solicited include:</p> <ul style="list-style-type: none"> • ecological knowledge of marine species, • historic and present abundance of fisheries (commercial and traditional); and • in the development of worst-case scenarios for spill modelling, sensitive receptors for spills and co-occurrence of spills with commercial or subsistence fishing activity. 	Chapter 3; Section 6.1.1.4, 7.3, 16.7.9
2.4. Application of the precautionary approach	
<p>The proponent will demonstrate that all aspects of the project have been examined and planned in a careful and precautionary manner in order to avoid significant adverse environmental effects</p>	Section 2.10, 1.4
3. SCOPE OF THE ENVIRONMENTAL ASSESSMENT	
3.1. Designated project	
<p>On June 13, 2018, Equinor Canada Ltd., the proponent of the Bay du Nord Development Project provided a project description to the Agency. Based on this project description, the Agency has determined that an EA is required under CEAA 2012 and will include the following project components and activities:</p>	
<ul style="list-style-type: none"> • Offshore construction, installation, hook-up and commissioning, operation, and maintenance of a floating production installation and associated subsea infrastructure for crude oil production, storage, export, gas management, water injection and the management of produced water and other wastes and emissions. 	Section 2.6, 2.7, 2.8

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<ul style="list-style-type: none"> • Drilling of 10 to 30 wells, with a combination of production and injection wells, either drilled using templates (multiple wells drilled in one location) or at individual well locations. Drilling may involve the use of one or more dynamically-positioned mobile offshore drilling units (MODUs), which may operate concurrently, suitable for drilling throughout the year and under the environmental conditions of the project area. 	Section 1.2.2, 2.3, 2.5.3, 2.6.3
<ul style="list-style-type: none"> • Crude oil shipping including movement, hook-up/disconnect and offloading of crude oil to shuttle tankers within the Project safety zone. 	Section 2.5.3.1, 2.5.4, 2.6.2
<ul style="list-style-type: none"> • Supporting survey activities specific to the production project under consideration. 	Section 2.6.5
<ul style="list-style-type: none"> • The loading, refuelling and operation of marine support vessels (i.e. for re-supply and transfer of materials, fuel, and equipment and on-site safety during the life of the Project) and transport between the supply base and the project area) and helicopter support (i.e. for crew transport and delivery of light supplies and equipment) including transportation to the project area. 	Section 2.6.4
<ul style="list-style-type: none"> • Decommissioning, including well decommissioning which involves plugging and securing of the wells and removal of infrastructure. 	Section 2.6.7
<ul style="list-style-type: none"> • Potential future development opportunities specific to the production project under consideration including the installation of additional subsea templates and flowlines. 	Section 2.6.6
3.2. Factors to be considered	
<ul style="list-style-type: none"> • environmental effects of the project, including the environmental effects 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; 	Chapters 8 to 16; Section 4.1., 4.2., 4.3., 4.4, 4.5
<ul style="list-style-type: none"> • the significance of the effects referred to above; 	Section 4.1, 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 15.2.6, 15.3.6, 15.4.6, 15.5.5, 15.7.5, 16.7.4.8, 16.7.5.8, 16.7.6.9, 16.7.7.5, 16.7.8.5
<ul style="list-style-type: none"> • comments from the public; 	Chapter 3; Section 4.1
<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; 	Section 8.4, 9.1.5.2, 10.1.5.2, 11.1.5.2, 12.1.5.2
<ul style="list-style-type: none"> • the requirements of the follow-up program in respect of the project; 	Section 18.4.1
<ul style="list-style-type: none"> • the purpose of the project; 	Section 2.2
<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 alternative means; 	Section 2.7

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<ul style="list-style-type: none"> any change to the project that may be caused by the environment; and 	Chapter 17; Section 4.1, 4.6
<ul style="list-style-type: none"> the results of any relevant regional study pursuant to CEAA 2012. 	Section 1.3.1, 4.1
3.2.1. Changes to the environment	
Under CEAA 2012, an examination of environmental effects that result from changes to the environment as a result of the project being carried out or as a result of the federal government exercising any power duty or function that would allow the project to be carried out must be considered in the EIS.	Chapters 8 to 16; Section 4.1
In scoping the potential changes to the environment that may occur, the proponent should consider any potential changes in the physical environment such as changes to the acoustic environment, air quality, sediment quality and water quality.	Chapters 8 to 16; Section 4.1, 4.3
3.2.2. Valued components to be examined	
<p>The proponent must conduct and focus its analysis on VCs as they relate to section 5 of CEAA 2012, including the ones identified in Section 6.3 (Part 2) of these guidelines that may be affected by changes in the environment, as well as species at risk and their critical habitat as per the requirement outlined in section 79 of the Species at Risk Act. Section 5 of CEAA 2012 defines environmental effects as:</p> <ul style="list-style-type: none"> a change that may be caused to fish and fish habitat, marine plant and migratory birds; a change that may be caused to the environment on federal lands, in another province or outside Canada; with respect to aboriginal peoples, an effect of any change that may be 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; or ✓ any structure, site or thing that is of historical, archaeological, paleontological or architectural significance. for projects requiring a federal authority to exercise a power or perform a duty or function under another Act of Parliament: <ul style="list-style-type: none"> ✓ 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 the performance of a duty or function; and ✓ the effect of that change, other than the effects mentioned above, on: <ul style="list-style-type: none"> - health and socio-economic conditions, - physical and cultural heritage, or - any structure, site or thing that is of historical, archaeological, paleontological or architectural significance. 	Chapters 8 to 16; Section 4.1, 4.3, 18.5

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The list of VCs presented in the EIS will be completed according to the evolution and design of the project and reflect the knowledge acquired through public consultation and engagement with Indigenous groups.	Chapter 3; Section 4.1, 4.2, 4.3
The EIS will describe what methods were used to predict and assess the adverse environmental effects of the project on these VCs.	Chapter 4; Section 8.3.1, 9.1.3, 10.1.3, 11.1.3, 12.1.3, 13.1.3, 14.1.3, 15.1, 16.3, 16.4
The VCs will be described in sufficient detail to allow the reviewer to understand their importance and to assess the potential for environmental effects arising from the project activities.	Chapters 5 to 7
The EIS will provide a rationale for selecting specific VCs and for excluding any VCs or information specified in these guidelines. Challenges may arise regarding particular exclusions, so it is important to document the information and the criteria used to justify the exclusion of a particular VC or piece of information. Justification may be based on, for example, primary data collection, computer modelling, literature references, public participation or engagement with Indigenous groups, or expert input or professional judgement.	Section 4.2
The EIS 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 EIS will indicate to whom these concerns are important (i.e. the public or Indigenous groups) and the reasons why, including environmental, cultural, historical, social, economic, recreational, and aesthetic considerations, and traditional knowledge. If comments are received on a component that has not been included as a VC, these comments will be summarized and the rationale for excluding the component will address the comments.	Chapter 3; Section 4.2
3.2.3. Spatial and temporal boundaries	
The spatial and temporal boundaries used in the EA may vary depending on the VC and will be considered separately for each VC, including for VCs related to the current use of lands and resources for traditional purposes by Aboriginal peoples, or other environmental effects referred to under paragraph 5(1)(c) of CEAA 2012. The proponent is encouraged to consult with the Agency, federal and provincial government departments and agencies, local government, and Indigenous groups, and take into account public comments when defining the spatial and temporal boundaries used in the EIS.	Section 4.3.1, 8.1, 9.1, 10.1, 11.1, 12.1, 13.1, 14.1
The EIS will describe the spatial boundaries, including local and regional study areas, of each VC to be used in assessing the potential adverse environmental effects of the project and provide a rationale for each boundary. Spatial boundaries will be defined taking into account the appropriate scale and spatial extent of potential environmental effects, community knowledge and Aboriginal traditional knowledge, current or traditional land and resource use by Indigenous groups, ecological, technical, social, and cultural considerations.	Section 8.1, 9.1, 10.1, 11.1, 12.1, 13.1, 14.1

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The temporal boundaries of the EA will span all phases of the project determined to be within the scope of this EA as specified under section 3.1 above. If effects are predicted after project decommissioning, this should be taken into consideration in defining boundaries. Community knowledge and Aboriginal traditional knowledge should factor into decisions around defining temporal boundaries.		Section 4.3.1.1
If the temporal boundaries do not span all phases of the project, the EIS will identify the boundaries used and provide a rationale.		Section 4.3.1.1
4 PREPARATION AND PRESENTATION OF THE ENVIRONMENTAL IMPACT STATEMENT		
4.1. Guidance		
The proponent should consult the Agency policy and guidance on topics to be addressed in the EIS, which is available on the Agency's website, and liaise with the Agency during the planning and development of the EIS. The proponent should also consult relevant guidance from other federal departments and ensure that the most up to date version is being used.		Section 1.0, 1.4, 4.1, 4.2, 4.3.1, 4.3.2
The proponent is encouraged to engage with Indigenous groups on the planning and development of relevant sections of the EIS, including effects from changes to the environment and impacts to potential or established Aboriginal or Treaty rights as well as assessment of environmental effects as outlined in paragraph 5(1)(c) of CEAA 2012.		Section 3.3
Submission of regulatory and technical information necessary for federal authorities to make their regulatory decisions during the conduct of the EA is at the discretion of the proponent. Although that information is not necessary for the EA decision, the proponent is encouraged to submit it concurrent with the EIS. The EIS must outline applicable federal authorizations required for the project to proceed, and the proponent must provide information relevant to the regulatory role of the federal government. It should be noted that the issuance of these other applicable federal legislative, regulatory and constitutional requirements are within the purview of the relevant federal authorities, and are subject to separate processes post EA decision.		Section 1.3, 1.4
4.2. Use of information		
4.2.1. Government expert advice		
The Agency will advise the proponent of the availability of pertinent information or knowledge or expert and specialist knowledge received from other federal authorities or other levels of government so that it can be incorporated into the EIS.		Noted
4.2.2. Community knowledge and Aboriginal traditional knowledge		
The proponent will incorporate into the EIS the community knowledge and Aboriginal traditional knowledge to which it has access or that is acquired through public participation and engagement with Indigenous groups, in keeping with appropriate ethical standards and obligations of confidentiality.		Chapter 3; Section 7.3

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The EIS will explain what Indigenous knowledge was obtained (unless confidential), how it was obtained and will clearly show how and where Indigenous knowledge has been integrated into the EIS.	Chapter 3; Section 7.3
The proponent will engage in a respectful dialogue with Indigenous groups about the collection and use of Indigenous knowledge and enter into agreements where necessary regarding the use of information during and after the EA. The proponent should collaborate with Indigenous groups to ensure, where possible, that the Indigenous knowledge is incorporated into the EIS in a way that is appropriate for the Indigenous group.	Chapter 3
The proponent will integrate Indigenous knowledge into all aspects of its assessment including both methodology (e.g. establishing spatial and temporal boundaries, defining significance criteria) and analysis (e.g. baseline characterization, effects prediction, development of mitigation measures).	Chapter 3; Section 4.2
Agreement should be obtained from Indigenous groups regarding the use, management, and protection of their existing traditional knowledge information during and after the EA.	Chapter 3
Should there be a lack of Indigenous knowledge, the proponent is still expected to seek information from other sources to complete the assessment of effects of changes to the environment on Aboriginal peoples or the assessment of impacts to rights.	Chapter 3; Section 7.3
4.2.3. Existing information	
In preparing the EIS, the proponent is encouraged to make use of existing information relevant to the project, such as the Eastern Newfoundland Strategic Environmental Assessment. 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).	Chapters 5 to 7
When relying on existing information, the proponent will also comment on how the data were applied to the project, separate factual lines of evidence from inference, and state any limitations on the inferences or conclusions that can be drawn from the existing information. In such circumstances, the proponent will clearly describe potential or known data or knowledge gaps and uncertainties, and describe how these have been addressed in the assessment of the project.	Chapters 5 to 7; Section 4.3.3, 9.1.3, 10.1.3, 11.1.3, 12.1.3

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4.2.1. Confidential information	
<p>In implementing CEAA 2012, the Agency is committed to promoting public participation in the EA of projects and providing access to the information on which EAs are based. All documents prepared or submitted by the proponent, stakeholders or Indigenous communities in relation to the EA are included in the Canadian Environmental Assessment Registry and made available to the public on request. For this reason, the EIS will not contain information that:</p> <ul style="list-style-type: none"> • is sensitive or confidential (e.g. 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 substantial harm to a person or specific harm to the environment through its disclosure. <p>The proponent will consult with the Agency regarding whether specific information requested by these guidelines should be treated as confidential.</p>	Confidential information is not included in the EIS.
4.3. Study strategy and methodology	
<p>Except where specified by the Agency, the proponent has the discretion to select the most appropriate methods to compile and present data, information and analysis in the EIS as long as they are justifiable and replicable.</p>	Chapter 4
<p>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 justification so the Agency or review panel, federal authorities, Indigenous groups, the public and any other interested party have an opportunity to comment on this decision. Where the Agency disagrees with the proponent's decision, it will require the proponent to provide the specified information.</p>	Section 4.2, 4.3
<p>The assessment will include the following general steps:</p>	
<ul style="list-style-type: none"> ✓ identifying the activities and components of the project; 	Section 1.2.2, 2.5, 2.6, 4.1, 4.3.4, 8.5, 9.2, 10.2, 11.2, 12.2, 13.2, 14.2
<ul style="list-style-type: none"> ✓ predicting potential changes to the environment; 	Chapters 8 to 16
<ul style="list-style-type: none"> ✓ predicting and evaluating the likely effects on identified VCs; 	Chapters 8 to 16
<ul style="list-style-type: none"> ✓ identifying technically and economically feasible mitigation measures for any significant adverse environmental effects; 	Section 4.1, 4.3.3, 8.4, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5, 16.1; Appendix P, Q

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✓ determining any residual environmental effects;	Section 4.1, 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 15.2.6, 15.3.6, 15.4.6, 15.5.5, 15.7.5, 16.7.4.6, 16.7.5.6, 16.7.6.7, 16.7.7.3, 16.7.8.3, 16.7.9.4
✓ considering cumulative effects of the project in combination with other physical activities that have been or will be carried out; and	Chapter 15; Section 4.4
✓ determining the potential significance of any residual environmental effect following the implementation of mitigation measures.	Section 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 15.2.6, 15.3.6, 15.4.6, 15.5.5, 15.7.5, 16.7.4.8, 16.7.5.8, 16.7.6.9, 16.7.7.5, 16.7.8.5
For each VC, the EIS will describe the methodology used to assess project-related effects.	Section 4.3, 4.4, 4.5, 8.1, 9.1.3, 10.1.3, 11.1.3, 12.1.3, 13.1.3, 14.1.3
The EIS could include an analysis of the pathway of the effects of environmental changes on each VC.	Section 4.1, 8.1, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5
The EIS will document where and how scientific, engineering, community knowledge and Indigenous knowledge were used to reach conclusions.	Chapters 5 to 7; Section 8.3, 8.4, 8.5, 8.6, 9.2, 9.3, 9.6, 10.2, 10.3, 10.6, 11.2, 11.3, 11.6, 12.2, 12.3, 12.5, 14.2, 14.3, 14.4
Assumptions will be clearly identified and justified.	Chapter 15; Section 4.3.3
All data, models and studies will be documented such that the analyses are transparent and reproducible.	Section 4.3.4, 8.1, 9.1.3, 10.1.3; 11.1.3, 12.1.3, 16.4; Appendices D, E, F, I, J, K
All data collection methods will be specified. The uncertainty, reliability, sensitivity, and conservativeness of models used to reach conclusions must be indicated.	Chapter 4; Section 8.1, 9.1.4, 10.1.3, 11.1.3, 12.1.3, 13.1.3, 14.1.3, 15.1, 16.3, 16.4

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<p>The EIS will identify all significant gaps in knowledge and understanding related to key conclusions, and the steps to be taken by the proponent to address these gaps. Where the conclusions drawn from scientific, engineering and technical knowledge are inconsistent with the conclusions drawn from Indigenous knowledge, the EIS will present each perspective on the issue and a statement of the proponent's conclusions. As such, the proponent will make reasonable efforts to engage Indigenous groups with differing conclusions to achieve mutual understanding or agreement that can be presented in these EIS chapters.</p>	<p>Chapters 5 to 7, 14; Section 4.3.3, 9.1.3, 10.1.3, 11.1.3, 12.1.3, 13.1.3</p>
<p>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 likely effects of the project. The description will be sufficiently detailed to characterize the environment before any disturbance to the environment due to the project and to identify, assess and determine the significance of the potential adverse environmental effects of the project. These data should include results from studies done prior to any physical disruption of the environment and from traditional knowledge shared by Indigenous people. The information describing the existing environment may be provided in a stand-alone chapter of the EIS or may be integrated into clearly defined sections within the effects assessment of each VC. This analysis will include environmental conditions resulting from historical and present activities in the local and regional study areas.</p>	<p>Chapters 5 to 7</p>
<p>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. The proponent will provide the references used in creating their approach to baseline data gathering, including identifying where appropriate, the relevant federal or provincial standards. The proponent is encouraged to discuss the timeframe and considerations for its proposed baseline data with the Agency prior to submitting its EIS.</p>	<p>Chapter 4; Section 8.1, 9.1.3, 10.1.3, 11.1.3, 12.1.3</p>
<p>In describing and assessing effects to the physical and biological environment, the proponent will take an ecosystem approach that considers both scientific and community knowledge and Indigenous knowledge and perspectives regarding ecosystem health and integrity. The proponent will consider the resilience of relevant species populations, communities, and their habitats taking into account the results of environmental monitoring conducted for previously-assessed offshore exploration drilling and production projects.</p>	<p>Chapter 3, 4, 14; Section 7.3, 9.1.3, 9.6, 10.1.3, 10.6, 11.1.3, 11.6, 12.5, 13.1.3</p>
<p>The assessment of environmental effects on Aboriginal peoples, pursuant to paragraph 5(1)(c) of CEAA 2012, will undergo the same rigour and type of assessment as any other VC (including setting of spatial and temporal boundaries, identification and analysis of effects, identification of mitigation measures, determination of residual effects, identification and a clear explanation of the methodology used for assessing the significance of residual effects and assessment of cumulative effects).</p>	<p>Chapter 14; Section 7.3, 15.7, 16.7.9.4</p>

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<p>The proponent will consider the use of both primary and secondary sources of information regarding baseline information, changes to the environment and the corresponding effect on health, socio-economics, physical and cultural heritage and the current use of lands and resources for traditional purposes. Primary sources of information could include traditional land use studies, socio-economic studies, heritage surveys or other relevant studies conducted specifically for the project and its EIS. Often these studies and other types of relevant information are obtained directly from Indigenous groups. Secondary sources of information could include previously documented information on the area, not collected specifically for the purposes of the project, or desk-top or literature-based information.</p>	Chapter 3; Section 7.3
<p>The proponent will provide Indigenous groups the opportunity to review and provide comments on the information used for describing and assessing effects on Aboriginal peoples (further information on engaging with Indigenous groups is provided in Part 2, Section 5 of this document). The proponent will respond to the comments of Indigenous groups prior to submitting the EIS to ensure that the comments are adequately addressed. Where there are discrepancies in the views of the proponent and Indigenous groups on the information to be used in the EIS, the EIS will document these discrepancies and the rationale for the proponent's selection of information.</p>	Chapter 3, 14; Section 7.3
<p>The assessment of the effects of each of the project components and physical activities, in all phases, will be based on a comparison of the biophysical and human environments between the predicted future conditions with the project and baseline conditions. In undertaking the environmental effects assessment, the proponent will use best available information and methods. All conclusions will be substantiated. Predictions will be based on clearly stated assumptions. The proponent will describe how each assumption has been tested, as well as why the assumptions is necessary and the uncertainty that could result from the assumption. With respect to quantitative models and predictions, the EIS will document the assumptions that underlie the model, the quality of the data and the degree of certainty of the predictions obtained. Where there are discrepancies in the views of the proponent and Indigenous groups with respect to the outcomes of assessment(s), the EIS will document and provide a rationale for these discrepancies.</p>	Throughout EIS
<p>4.4. Presentation and organization of the environmental impact statement</p>	
<p>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:</p> <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 • date of submission of the EIS 	Title page

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The EIS will be written in clear, precise language. A glossary defining technical words, acronyms and abbreviations will be included. The EIS will include 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.	Throughout EIS
For purposes of brevity and to avoid repetition, cross-referencing is preferred. The EIS may make reference to the information that has already been presented in other sections of the document, rather than repeating it.	Throughout EIS
Detailed studies (including all relevant and supporting data and methodologies) will be provided in separate appendices and will be referenced by appendix, section, and page in the text of the main document.	Throughout EIS; Appendices D, E, F, H, I, J, K, L
The EIS will explain how information is organized in the document. This will include a table of contents with a list of all tables, figures, and photographs referenced in the text.	Table of Contents
A complete list of supporting literature and references will also be provided.	Sections 1.5, 2.11, 4.7, 5.8, 6.5, 7.5, 8.7, 9.8, 10.8, 11.8, 12.7, 13.7, 14.6, 15.10, 16.8, 17.5, 18.7
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 B
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,	Noted for EIS submission
4.5. Summary of the environmental impact statement	
<p>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 time as the EIS that will include the following:</p> <ul style="list-style-type: none"> • a concise description of all key components of the project and related activities; • a summary of the engagement with Indigenous groups, and the participation of the public and government agencies, including a summary of the issues raised and the proponent's responses; • an overview of expected changes to the environment; • an overview of the key environmental effects of the project, as described under section 5 of CEAA 2012, and proposed technically and economically feasible mitigation measures; • an overview of how factors under paragraph 19(1) of CEAA 2012 were considered; and • the proponent's conclusions on the residual environmental effects of the project, and the significance of those effects, after taking into account the mitigation measures. 	Plain Language Summary

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<p>The summary is to be provided as a separate document and should be structured as follows:</p> <ol style="list-style-type: none"> 1. Introduction and EA context 2. Project overview 3. Alternative means of carrying out the project 4. Public participation 5. Engagement with Indigenous Groups 6. Summary of environmental effects assessment for each valued component, including: <ol style="list-style-type: none"> a. description of the baseline b. anticipated changes to the environment c. anticipated effects d. mitigation measures e. significance of residual effects 7. Follow-up and monitoring programs proposed 	Plain Language Summary
<p>The summary will have sufficient details for the reader to understand the project, any potential environmental effects, proposed mitigation measures, and the significance of the residual effects. The summary will include key maps illustrating the project location and key project components.</p>	Plain Language Summary
Part 2 – Content of the Environmental Impact Statement	
1. INTRODUCTION AND OVERVIEW	
1.1. The proponent	
<p>In the EIS, the proponent will:</p> <ul style="list-style-type: none"> • provide contact information (e.g. name, address, phone, fax, email); • identify itself and the name of the legal entity(ies) that would develop, manage, and operate the project; • describe 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. 	Section 1.1, 1.4; Appendix C
1.2. Project overview	
<p>The EIS will describe the project, key project components and associated activities, scheduling details, the timing of each phase of the project and other key features. If the project is part of a larger sequence of projects, the EIS will outline the larger context. The overview is to identify the key components of the project, rather than providing a detailed description which will follow in Section 3 below.</p>	Chapter 2; Section 1.1, 1.2, 1.4

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Bay du Nord Development Project EIS Guidelines	EIS Reference
1.3. Project location	
The EIS will contain a description of the geographical setting in which the project will take place. This description will focus on those aspects of the project and its setting that are important in order to understand the potential environmental effects of the project. The following information will be included:	
<ul style="list-style-type: none"> the Universal Transverse Mercator (UTM) projection coordinates of the main project site, as well as its latitude and longitude; 	Section 1.2, 2.4
<ul style="list-style-type: none"> current use of the area; 	Section 2.4.1
<ul style="list-style-type: none"> distance of the project facilities and components to any federal lands; 	Section 2.4
<ul style="list-style-type: none"> the environmental significance and value of the geographical setting in which the project will take place; 	Section 2.4.1
<ul style="list-style-type: none"> environmentally sensitive areas, such as national, provincial, and regional parks, ecological reserves, ecologically and biologically sensitive areas, fishery closure areas, vulnerable marine ecosystems, marine refuge areas, marine protected areas, areas of interest, and habitats of federally or provincially listed species at risk and other sensitive areas; 	Section 2.4.1, 6.4
<ul style="list-style-type: none"> description of local communities; and 	Section 7.4
<ul style="list-style-type: none"> traditional territories and/or consultation areas, treaty lands, and Indian Reserve lands. 	Section 7.3
1.4. Regulatory framework and the role of government	
The EIS will identify:	
<ul style="list-style-type: none"> any federal power, duty or function that may be exercised that would permit the carrying out (in whole or in part) of the project or associated activities; 	Section 1.3
<ul style="list-style-type: none"> legislation and other regulatory approvals that are applicable to the project at the federal, provincial, regional, and municipal levels; 	Section 1.3.4
<ul style="list-style-type: none"> government policies, resource management plans, planning or study initiatives pertinent to the project and/or EA and their implications; 	Section 1.3.2.2
<ul style="list-style-type: none"> any treaty, self-government, or other agreements between federal or provincial governments and Indigenous groups that are pertinent to the project and/or EA; 	Section 7.3
<ul style="list-style-type: none"> any relevant land use plans, land zoning or community plans; and 	Section 1.3
<ul style="list-style-type: none"> 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. 	Section 1.3.4

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Bay du Nord Development Project EIS Guidelines	EIS Reference
2. PROJECT JUSTIFICATION AND ALTERNATIVES CONSIDERED	
2.1. Purpose of the project	
The EIS 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. If the objectives of the project are related to broader private or public sector policies, plans or programs, this information will also be included.	Section 2.2
The EIS 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 as defined in section 5 of CEEA 2012, if such effects are identified. The EIS should also discuss how the project would contribute to sustainability.	Section 2.2.1
2.2. Alternative means of carrying out the project	
The EIS will identify and consider the environmental effects of alternative means of carrying out the project that are technically and economically feasible.	Section 2.7
The proponent will complete the assessment of alternative means in accordance with the Agency's Operational Policy Statement on this topic.	Section 2.7
<p>In its alternative means analysis, the proponent will address, at a minimum, the following project components:</p> <ul style="list-style-type: none"> • choice of production installation; • choice of drilling unit (i.e. drillship or semi-submersible); • choice of subsea infrastructure; • choice of drilling fluid (i.e. water-based drilling mud or synthetic-based drilling mud); • management of drilling wastes (i.e. disposal on seabed or into water column, recover and ship to shore, re-inject); • disposal of produced water and produced sand (e.g. re-injection of produced water versus marine disposal) • locations of the final effluent discharge points (e.g. treated drilling fluid, produced water); • alternative ways to light the platform at night to reduce attraction and associated mortality of birds; • alternatives to flaring at night, to reduce attraction and associated mortality of birds; • choice of technology/method used for subsea vertical profiling and seismic testing associated with the Project; • timing of seismic surveys associated with the Project to reduce potential impacts on marine mammals and fish; and • the timing and approach of development, commissioning and maintenance activities, in relation to fishing activities. 	Section 2.5.1, 2.7

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p>The <i>Offshore Waste Treatment Guidelines</i> include minimum performance targets for concentrations and volumes of waste material in discharges resulting from offshore exploration and development. Offshore operators are expected to take all reasonable measures to minimize the volumes of waste materials generated by their operations, and to minimize the quantity of substances of potential environmental concern contained within these waste materials. The EIS should include a discussion on how wastes and potential associated toxic substances would be minimized or eliminated. The proponent should also discuss any alternatives that would enable it to achieve these objectives and adopt best practices in waste management and treatment.</p>	Section 2.7, 2.8
<p>The <i>Offshore Chemical Selection Guidelines for Drilling & Production Activities on Frontier Lands</i> provide a framework for the selection of chemicals in support of offshore operations. The guidelines outline minimum expectations on the selection of lower toxicity chemicals; recognizing that variations to the selection process described in the guidelines may be required in areas where increased risk to the environment has been identified. With the objective of minimizing potential environmental impacts of discharges to the marine environment, the proponent should identify the quantity and type of chemicals (or constituents) that may be used in support of the proposed project that are:</p> <ul style="list-style-type: none"> • included on the <i>Canadian Environmental Protection Act's</i> List of Toxic Substances; • not included on the OSPAR Pose Little or No Risk to the Environment (PLONOR) list of chemicals and have a PARCOM Offshore Chemical Notification Scheme Hazard Rating of A, B or purple, orange, blue, or white; or • not included on the PLONOR list of chemicals and have not been assigned a PARCOM Offshore Chemical Notification Scheme Hazard Rating. 	Section 2.7
<p>Alternatives to the use of the above-listed chemicals (e.g. through alternative means of operating or use of less-toxic alternatives) should be discussed in the EIS.</p>	Section 2.7
<p>The Agency recognizes that projects may be in the early planning stages when the EIS is being prepared. Where the proponent has not made final decisions concerning the placement of project infrastructure, the technologies to be used, or that several options may exist for various project components, the proponent shall conduct an environmental effects analysis at the same level of detail for each of the various options available (alternative means) within the EIS.</p>	Section 2.5.1, 2.7
<p>3. PROJECT DESCRIPTION</p>	
<p>3.1. Project components</p>	
<p>The EIS will describe the project, by presenting the project components, associated and ancillary works, and other characteristics that will assist in understanding the environmental effects. Where information can be based on previous experience, this will be presented as such. This will include:</p>	
<ul style="list-style-type: none"> • maps, at an appropriate scale, of the project location, the project components, licence boundaries (with latitude and longitude and UTM coordinates), the major existing infrastructure, adjacent land uses and any important environmental features; 	Section 2.1, 2.4

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none"> navigation activities (number and frequency of trips), size and types of vessels (e.g. tankers, supply vessels), anticipated vessel routes and moorings, and predicted percentage of increase in vessel traffic of similar size vessels resulting from the project 	Section 2.6.4, 2.6.5
In its EIS, the proponent will describe:	
<ul style="list-style-type: none"> the semi-submersible drilling unit and/or drillship(s) and their operations in locations and water depths under consideration; 	Section 2.5.3.3, 2.6.3
<ul style="list-style-type: none"> the floating production storage and offloading facility, including processing and storage capacity, risers or other means of moving crude oil from the seabed to the facility, and the means of station-keeping; 	Section 2.5.3, 2.6
<ul style="list-style-type: none"> the subsea facilities footprint, location and preliminary designs (templates, wellheads, manifolds, tie-backs, flowlines/pipelines, gathering lines as applicable); 	Section 2.6.1
<ul style="list-style-type: none"> tankers, including their frequency and capacity, how and from where they are sourced, and their routes to and from the Project; 	Section 2.6.4
<ul style="list-style-type: none"> helicopters, including routes, number, day/night flights, and frequency of trips to and from the Project; 	Section 2.6.4.3
<ul style="list-style-type: none"> all well types used for the Project (e.g. production and injection); 	Section 2.5.3, 2.6.3
<ul style="list-style-type: none"> reagent requirements and uses (e.g. volumes, storage, types); 	Section 2.5.3.3, 2.6.2
<ul style="list-style-type: none"> petroleum products (e.g. source, volume, storage, oil composition and physical characteristics); 	Section 2.5.3, 2.5.3.3,
<ul style="list-style-type: none"> the chemical and physical composition and fate (e.g. areal extent) of drilling wastes (e.g. muds, cuttings) at various water depths and at various stages of drilling, including during riserless drilling and drilling with the marine riser in place, using dispersion modelling; 	Section 2.6.3, 2.8.2.2, 4.3.4.1, 9.3.3.3; Appendix I
<ul style="list-style-type: none"> the management or disposal of wastes (e.g. type and constituents of waste, quantity, treatment and method of disposal based on an estimated number of personnel for a typical harsh environment rated MODU) including: <ul style="list-style-type: none"> drilling muds, drill solids; produced water; produced sand; cement and cementing product wastes; naturally occurring radioactive materials (NORM); deck drainage; hydrostatic testing water; desalination brine; cooling water; bilge water; 	Section 2.5.3, 2.7.1, 2.8

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none"> • fire control system test water; • operational discharges from subsea systems and the installation of subsea systems; • sewage and food wastes; • completion and well work-over fluids; • well treatment, and maintenance; and • any other operational discharges. • atmospheric emissions, including emissions profile (i.e. type, rate and source) for all project sources from, venting, exhausts and fugitive emissions from drilling units, support vessels, storage units, tankers and helicopters, on-board generators or other emissions-producing equipment; 	
<ul style="list-style-type: none"> • normal operational losses, such as gas emissions through flow lines or seepage through equipment seals; 	Section 2.5.3.2
<ul style="list-style-type: none"> • noise emissions including underwater noise emissions from all project sources (e.g. mobile offshore drilling unit(s), drilling platform, geophysical surveys, vessels, helicopters); 	Section 2.6.5, 2.8.3
<ul style="list-style-type: none"> • sources and extent of heat and light; 	Section 2.8.3
<ul style="list-style-type: none"> • number of employees and transportation of employees; 	Section 2.5.5, 2.6.4.3
<ul style="list-style-type: none"> • drinking and industrial water requirements (source, quantity required, need for water treatment); 	Section 2.5.3, 2.6.2
<ul style="list-style-type: none"> • energy supply (source, quantity); 	Section 2.6.2, 2.7.1.2, 2.8.1
<ul style="list-style-type: none"> • information on the care and control of project components; 	Section 2.6.2, 2.6.7
<ul style="list-style-type: none"> • permanent and temporary linear infrastructures; and 	Section 2.5.3, 2.6.1.2
<ul style="list-style-type: none"> • any construction and/or modification of components. 	Section 2.5.3, 2.6.4.2
<p>3.2. Project activities</p>	
<p>The EIS will include descriptions of offshore drilling; construction, installation, hook-up and commissioning; production and operation activities; maintenance operations; tanker operations; and decommissioning of wells associated with the proposed project, as well as supporting surveys, and supply and servicing activities.</p>	Section 2.6
<p>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>	Section 2.6
<p>Although a complete list of project activities should be provided, the emphasis will be on activities with the greatest potential to have environmental effects. Sufficient information will be included to predict environmental effects and address concerns identified by the public and Indigenous groups. Highlight activities that involve periods of increased environmental disturbance or the release of materials into the environment.</p>	Section 2.5, 2.6, 2.8
<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, Indigenous groups, and the public.</p>	Section 2.10

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Bay du Nord Development Project EIS Guidelines	EIS Reference
The EIS will include a schedule including time of year, frequency, and duration for all project activities. The information will include a description of:	Section 2.1.1, 2.6
3.2.1. Drilling and associated activities, either for development wells or other wells:	
<ul style="list-style-type: none"> • operation of the Mobile Offshore Drilling Unit(s), including drilling using templates or individual well locations, and whether drilling new wells or re-entering suspended wells for development; 	Section 2.6.3
<ul style="list-style-type: none"> • flaring, including: <ul style="list-style-type: none"> ✓ flare type (i.e. standard versus engineered); ✓ flare gas line conditioning; <ul style="list-style-type: none"> - separation of solids and liquid aerosols from gas line - gas composition monitoring (frequency and method). This will include but is not limited to checking heating values to ensure efficient burning - Liquid knockout (details of liquid knockout drum or separator) ✓ all flaring activities and estimation of flared volume, including greenhouse gas and criteria air contaminants emissions, during: <ul style="list-style-type: none"> - Drilling and associated activities, either for development wells or other wells - Start-up - Well-completion - Routine operation and production - Emergencies and unforeseen events - Maintenance activities ✓ an estimate of the contribution of the flaring emissions at the local, provincial and federal scale; ✓ justification for all estimated emissions and emission factors used; ✓ the estimation or derivation method, and a description of all assumptions and emission intensity factors used; 	Section 2.5.3, 2.5.3.1, 2.6.2, 2.6.3, 2.7.1.4, 2.8.1, 2.8.3
<ul style="list-style-type: none"> • well evaluation and testing; 	Section 2.6.3
<ul style="list-style-type: none"> • equipment requirements (type, quantity); and 	Section 2.5.3.3
<ul style="list-style-type: none"> • storage and management of hazardous materials, fuels and residues. 	Section 2.5.3
3.2.2. Offshore construction, installation, and hook-up and commissioning;	
<ul style="list-style-type: none"> • any associated pre-clearance surveys, site preparation, geotechnical, geophysical, environmental, geological surveys, and remotely-operated or autonomous vehicle (ROV/AUV) surveys; 	Section 2.6.1, 2.6.5

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none"> components and activities associated with establishing locations of drilling templates and subsea infrastructure; 	Section 2.5.3.2, 2.6.1, 2.6.6
<ul style="list-style-type: none"> construction, installation and hook-up of subsea infrastructure; and 	Section 2.6.1
<ul style="list-style-type: none"> any required subsea infrastructure protection measures (e.g. rock dumping over flowlines, installation of subsea wellhead protection equipment, trenching of flowlines or concrete mattresses installation). 	Section 2.6.1
3.2.3. Production and operation activities	
<ul style="list-style-type: none"> installation of subsea infrastructure (templates, wellhead, flowlines, etc.); 	Section 2.6.1
<ul style="list-style-type: none"> testing of subsea infrastructure; 	Section 2.6.1, 2.8
<ul style="list-style-type: none"> operation of subsea infrastructure, including flow rates; 	Section 2.5.3.2, 2.6.1, 2.6.2
<ul style="list-style-type: none"> installation and operation of the floating production storage and offloading facility, including production rates; 	Section 2.5.3.1
<ul style="list-style-type: none"> export, gas management, water injection, and the management of produced water; 	Section 2.5.3.1, 2.5.3.2, 2.6.2, 2.7.1, 2.8.2
<ul style="list-style-type: none"> potential installation of additional subsea templates and flowlines tied back to the production installation for potential future development; 	Section 2.6.6
<ul style="list-style-type: none"> operation of produced water treatment and management system; 	Section 2.6.2, 2.7.1.5
<ul style="list-style-type: none"> operation of seawater systems; 	Section 2.5.3, 2.6.2, 2.7.1.5, 2.8.2
<ul style="list-style-type: none"> provision of required water; 	Section 2.6.2
<ul style="list-style-type: none"> operation of oil storage and offloading; and 	Section 2.5.1, 2.5.3.1, 2.6.2
<ul style="list-style-type: none"> flaring in association with gas management and emergency. 	Section 2.5.3, 2.5.3.1, 2.6.2, 2.6.3, 2.7.1.4, 2.8.1, 2.8.3
3.2.4. Maintenance operations	
<ul style="list-style-type: none"> types of well servicing, intervention and work-overs; 	Section 2.6.3.3
<ul style="list-style-type: none"> types of workover fluids; 	Section 2.6.3.3
<ul style="list-style-type: none"> mobile offshore drilling unit operations for work-over; 	Section 2.6.3.3
<ul style="list-style-type: none"> maintenance and inspection activities including welding and x-ray inspection; 	Section 2.6.4.2, 2.6.2, 2.6.6
<ul style="list-style-type: none"> flaring in connection with maintenance activities; and 	Section 2.6.2, 2.7.1.4

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none"> • cargo/fuel/chemical handling. 	Section 2.5.3.1
3.2.5. Tanker operations	
<ul style="list-style-type: none"> • frequency of visits and route; 	Section 2.6.4
<ul style="list-style-type: none"> • size of vessel; 	Section 2.6.4
<ul style="list-style-type: none"> • tanker capacity; 	Section 2.6.4
<ul style="list-style-type: none"> • ballast water management; 	Section 2.6.4
<ul style="list-style-type: none"> • bilge water management; 	Section 2.6.4
<ul style="list-style-type: none"> • oil transfer procedures rates and durations; and 	Section 2.6.4
<ul style="list-style-type: none"> • measures to manage fuel transfers. 	Section 2.6.4
3.2.6. Supporting surveys	
<ul style="list-style-type: none"> • vertical seismic profiling surveys; 	Section 2.6.5
<ul style="list-style-type: none"> • geophysical / geohazard / wellsite and seabed surveys; 	Section 2.6.5
<ul style="list-style-type: none"> • 2D, 3D and 4D seismic surveys to access and revalidate previous seismic data or to extend the life of the Project; and 	Section 2.6.5
<ul style="list-style-type: none"> • remotely-operated vehicle (ROV) and autonomous underwater vehicle (AUV) surveys to conduct visual inspections of facilities. 	Section 2.6.5
3.2.7. Supply and servicing;	
<ul style="list-style-type: none"> • vessel support, including loading, refuelling and operation of marine support vessels (i.e. for transfer, re-supply and on-site safety during drilling activities); and 	Section 2.6.4
<ul style="list-style-type: none"> • helicopter support (i.e. crew transport and delivery of supplies and equipment). 	Section 2.6.4
3.2.8. Decommissioning	
<ul style="list-style-type: none"> • the preliminary outline of a decommissioning plan for the Project; and 	Section 2.6.7
<ul style="list-style-type: none"> • method of plugging and securing the wells, and the disposition of infrastructure. 	Section 2.6.7

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Bay du Nord Development Project EIS Guidelines	EIS Reference
4. PUBLIC PARTICIPATION AND CONCERNS	
The EIS will describe the ongoing and proposed public participation activities that the proponent will undertake or that it has already conducted on the project. It 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 3
The EIS 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.	Section 3.2, 3.3, 3.4
The EIS will provide a summary of key issues raised related to the project and its potential effects to the environment as well as describe any outstanding issues and ways to address them.	Section 3.2, 3.3, 3.4
5. ENGAGEMENT WITH INDIGENOUS GROUPS AND CONCERNS RAISED	
For the purposes of developing the EIS, the proponent will engage with Indigenous groups that may be affected by the project, to obtain their views on:	
<ul style="list-style-type: none"> • the project; 	Section 3.3
<ul style="list-style-type: none"> • effects of changes to the environment on Aboriginal peoples (health and socio-economic conditions; 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) pursuant to paragraph 5(1)(c) of CEEA 2012; and 	Chapter 14; Section 3.3, 7.3
<ul style="list-style-type: none"> • potential adverse impacts of the project on potential or established Aboriginal or Treaty rights (Section 35 rights), in respect of the Crown's duty to consult, and where appropriate, accommodate Indigenous peoples. 	Chapter 14; Section 3.3
<p>In order to allow the Indigenous groups to engage and provide views on the above, the proponent will provide the Indigenous groups with the following timely and relevant:</p> <ul style="list-style-type: none"> • opportunities to learn about the project including providing information about the proposed project (including but not limited to project design, location, potential effects, mitigation measures and follow-up and monitoring programs); and • opportunities to provide input on the overall project; effects of changes to the environment on Aboriginal peoples pursuant to paragraph 5 (1)(c) of CEEA 2012 and potential adverse impacts of the project on Section 35 Rights. 	Section 3.3.1
The proponent will structure its engagement activities to provide adequate time for groups to review and comment on the relevant information. Engagement activities are to be appropriate to the groups' needs, arranged through discussions with the groups and in keeping with established consultation protocols, where available.	Section 3.3.1

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p>The EIS will describe all efforts, successful or not, taken to solicit the information required from groups to support the preparation of the EIS. With respect to engagement activities, the EIS will document:</p>	
<ul style="list-style-type: none"> the engagement activities undertaken with each group prior to the submission of the EIS, including the date and means of engagement (e.g. meeting, mail, telephone); 	Section 3.3.1.1
<ul style="list-style-type: none"> document the main issues and comments raised during the engagement activities by each group and the proponent's responses (effort should be made to collating like issues together along valued components identified in the EIS); 	Section 3.3.1.2
<ul style="list-style-type: none"> any future planned engagement activities; 	Section 3.3.1.1
<ul style="list-style-type: none"> where and how Indigenous groups' perspectives were integrated into and/or contributed to decisions regarding the project, design, construction, operation, decommissioning, maintenance, follow-up and monitoring and associated potential effects (paragraph 5(1)(c)) and the associated mitigation utilized to manage those effects. The effects and mitigation measures should be clearly linked to valued components in the EIS as well as to specific project components or activities; and 	Section 3.3.1, 7.3, 14.1.3, 14.4; Appendix G, H
<ul style="list-style-type: none"> how engagement activities by the proponent allowed groups to understand the project and evaluate its impacts on their communities, activities, potential or established Aboriginal or Treaty rights. Where impacts are identified, provide a discussion of how those would be managed or mitigated (and provide this information for each Indigenous group separately). 	Section 3.3.1, 14.1.3, 14.4; Appendix G, H
<p>To assist with the provision of records as requested above, the Agency recommends the proponent create a tracking table of key issues raised by each Indigenous group and responses provided by the Proponent. Information provided related to potential adverse impacts on potential or established Aboriginal or Treaty rights will be considered by the Crown in meeting its common law duty to consult obligations.</p>	Section 3.3.1.2 provides a listing of key concerns and where addressed in EIS; Each VC chapter provides a list of key concerns

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p>The proponent will ensure that the groups listed below are notified about the main steps in the EIS development process and of opportunities to provide comments on key EA documents or information regarding their community. The proponent will ensure these groups are reflected in the baseline information and assessment of potential environmental effects as described under paragraph 5(1)(c) of CEAA 2012 and of impacts to potential or established section 35 rights, including title and related interest in the EIS. These groups include:</p> <p><i>Newfoundland and Labrador</i></p> <ul style="list-style-type: none"> • the Labrador Inuit (Nunatsiavut Government) • the Labrador Innu (Innu Nation) • the NunatuKavut Community Council 	<p>Chapter 14; Section 3.3, 7.3</p>
<p><i>Nova Scotia</i></p> <ul style="list-style-type: none"> • 11 Mi'kmaq First Nation groups represented by Kwilmu'kw Maw-klusuaqn Negotiation Office (KMKNO): <ul style="list-style-type: none"> ✓ Acadia First Nation ✓ Annapolis Valley First Nation ✓ Bear River First Nation ✓ Eskasoni First Nation ✓ Glooscap First Nation ✓ Membertou First Nation ✓ Paqtnkek Mi'kmaw Nation ✓ Pictou Landing First Nation ✓ Potlotek First Nation ✓ Wagmatcook First Nation ✓ Waycobah First Nation • Millbrook First Nation • Sipekne'katik First Nation 	<p>Chapter 14; Section 3.3, 7.3</p>

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p><i>New Brunswick</i></p> <ul style="list-style-type: none"> • eight Mi'gmaq First Nations groups represented by Mi'gmawé'l Tplu'taqnn Inc. (MTI): <ul style="list-style-type: none"> ✓ Fort Folly First Nation ✓ Eel Ground First Nation ✓ Pabineau First Nation ✓ Esgenoôpetitj First Nation ✓ Buctouche First Nation ✓ Indian Island First Nation ✓ Eel River Bar First Nation ✓ Metepnagiag Mi'kmaq First Nation • Elsipogtog First Nation • five Maliseet First Nation groups represented by Wolastoqey Nation in New Brunswick (WNNB): <ul style="list-style-type: none"> ✓ Kingsclear First Nation ✓ Madawaska Maliseet First Nation ✓ Oromocto First Nation ✓ Saint Mary's First Nation ✓ Tobique First Nation • Woodstock First Nation • Peskotomuhkati Nation at Skutik (Passamaquoddy) 	<p>Chapter 14; Section 3.3, 7.3</p>
<p><i>Prince Edward Island</i></p> <ul style="list-style-type: none"> • two Mi'kmaq First Nations represented by the Mi'kmaq Confederacy of Prince Edward Island: <ul style="list-style-type: none"> ✓ Abegweit First Nation ✓ Lennox Island First Nation 	<p>Chapter 14; Section 3.3, 7.3</p>

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p><i>Quebec</i></p> <ul style="list-style-type: none"> • three Mi'gmaq First Nation groups represented by Mi'gmawei Mawiomi Secretariat (MMS): <ul style="list-style-type: none"> ✓ Micmas of Gesgapegiag ✓ La Nation Micmac de Gespeg ✓ Listuguj Mi'gmaq Government • Les Innus de Ekuanitshit • Première Nation des Innus de Nutashkuan 	Chapter 14; Section 3.3, 7.3
<p>The groups referenced above may change as more is understood about the environmental effects of the project and/or if the project or its components change during the EA. The Agency reserves the right to alter the list of groups that the proponent will engage as additional information is gathered during the EA.</p> <p>In addition, for the purposes of good governance, the proponent should also provide information to and discuss potential environmental effects from the Project, as described under section 5(1)(c) of CEAA 2012, with the Qalipu Mi'kmaq First Nation Band and the Miawpukek First Nation.</p>	Chapter 14; Section 3.3, 7.3.2
<p>Upon receipt of knowledge or information of potential effects or adverse impacts to any Indigenous group, even those not listed above, the proponent shall provide that information to the Agency at the earliest opportunity.</p>	Chapter 14; Section 3.3, 7.3;
<p>The Agency recommends the proponent create a tracking table of key issues raised by each group, including the concerns raised related to the project, proposed mitigation measures, and where appropriate, a reference to the proponent's analysis in the EIS.</p>	Section 3.3.2
<p>5.1. Indigenous groups and engagement activities</p>	
<p>With respect to engagement activities, the EIS will document:</p>	
<ul style="list-style-type: none"> • the engagement activities undertaken with each group prior to the submission of the EIS, including the date and means of engagement (e.g. meeting, mail, telephone); 	Section 3.3.1.2
<ul style="list-style-type: none"> • any future planned engagement activities; and 	Section 3.3.1.1, 3.3.1.2
<ul style="list-style-type: none"> • how engagement activities by the proponent allowed groups to understand the project and evaluate its effects on their communities, activities, potential or established section 35 rights, including title and related interests. 	Chapter 14; Section 3.1, 7.3

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<p>In preparing the EIS, the proponent will ensure that groups have access to timely and relevant information on the project and how the project may adversely impact them. The proponent will structure its engagement activities to provide adequate time for groups to review and comment on the relevant information. Engagement activities are to be appropriate to the groups' needs, arranged through discussions with the groups and in keeping with established consultation protocols, where available. The EIS will describe all efforts, successful or not, taken to solicit the information required from groups to support the preparation of the EIS.</p>	Section 3.3.1
<p>With respect to the effects of changes to the environment on Aboriginal peoples as per paragraph 5(1)(c), the assessment requirements are outlined in Part 2, Sections 7.1.8 and Part 2, 7.3.7 of these guidelines. With respect to the assessment requirements are outlined in Part 2, Section 6 of these guidelines.</p>	Noted
<p>6. IMPACTS TO POTENTIAL OR ESTABLISHED ABORIGINAL OR TREATY RIGHTS</p>	
<p>With respect to potential adverse impacts of the project on potential or established Aboriginal or Treaty rights (Section 35 Rights), the EIS will document for each group identified in Part 2, Section 5 of these guidelines (or in subsequent correspondence from the Agency):</p>	
<ul style="list-style-type: none"> • Section 35 Rights, when this information is directly provided by a group to the proponent, the Agency or is available through public records, including but not limited to: <ul style="list-style-type: none"> ✓ geographical extent, nature, frequency and timing of the practice or exercise of the right; and ✓ context in which the right is practiced or exercised (including information about which groups of an Indigenous group practice the right (women, elders, youth), how the right was practiced historically), ✓ how the Indigenous group's cultural traditions, laws and governance systems inform the manner in which they exercise their rights (the who, what, when, how, where and why) ✓ maps and data sets (e.g. fish catch data); 	Chapter 14; Section 7.3
<ul style="list-style-type: none"> • potential adverse impacts of each of the project components and physical activities, in all phases, on Section 35 Rights, including those raised by Indigenous groups. 	Chapter 14; Section 3.3.1, 7.3
<ul style="list-style-type: none"> • measures identified to accommodate potential adverse impacts of the project on Section 35 Rights. These measures will clearly describe how the proponent intends to implement them, and may go beyond mitigation measures that are developed to address potential adverse environmental effects. Include perspectives and specific suggestions raised of potentially impacted Indigenous groups; as well as any views of Indigenous groups on the effectiveness of mitigation measures. 	Section 14.1.5
<ul style="list-style-type: none"> • potential adverse impacts on Section 35 Rights that have not been fully mitigated or accommodated as part of the EA and associated engagement with Indigenous groups. Include perspective of potentially impacted Indigenous groups; and 	Chapter 14; Section 7.3

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<ul style="list-style-type: none"> potential adverse impacts that may result from the residual and cumulative environmental effects. Include the perspectives of potentially impacted Indigenous groups. 	Section 14.2, 14.3, 14.4, 15.7
<p>This information and assessment will be informed from engagement with Indigenous groups described in Part 2, Section 5 of these guidelines. The information sources, methodology and findings of the assessment of paragraph 5(1)(c) effects under CEAA 2012 may be used to inform the assessment of potential adverse impacts of the project on Section 35 Rights. However, there may be distinctions between the adverse impacts on potential or established Aboriginal or Treaty rights and paragraph 5(1)(c) effects under CEAA 2012. The proponent will carefully consider the potential distinction between these two aspects and, where there are differences; will include the relevant information in its assessment.</p>	Chapter 14; Section 3.3, 7.3
<p>7. EFFECTS ASSESSMENT</p>	
<p>7.1. Project setting and baseline conditions</p>	
<p>Based on the scope of the project described in Section 3 (Part 1), the EIS will present baseline information in sufficient detail to enable the identification of how the project could affect the VCs and an analysis of those effects. Should other VCs be identified during the conduct of the EA, the baseline condition for these components will also be described in the EIS. To determine the appropriate spatial and temporal boundaries to describe the baseline information, refer to Section 3.2.3 (Part 1) of these guidelines. As a minimum, the EIS will include a description, using publicly-available data, of the following environmental components.</p>	Chapters 5 to 7
<p>7.1.1. Atmospheric environment</p>	
<p>The EIS will describe the atmospheric environment and climate at the project site and within areas that could be affected by routine project operations or accidents and malfunctions, such as:</p>	Chapter 5
<ul style="list-style-type: none"> ambient air quality in the project areas and in the airshed likely to be affected by the project, by identifying and quantifying emission sources for, but not limited to, the following contaminants: total suspended particulates, fine particulates smaller than 2.5 microns (PM_{2.5}), respirable particulates of less than 10 microns (PM₁₀), carbon monoxide (CO), sulphur oxides (SO_x), nitrogen oxides (NO_x), and volatile organic compounds (VOCs); 	Section 4.3.4.5, 5.6.1, 5.7
<ul style="list-style-type: none"> state emission assumptions with activity and factor data referenced; 	Section 4.3.4.5
<ul style="list-style-type: none"> identify and quantify existing greenhouse gas emissions by individual pollutant measured as kilotonnes of CO₂ equivalent per year in the project study areas; 	Section 5.7
<ul style="list-style-type: none"> direct and indirect sources of air emissions; 	Section 5.7
<ul style="list-style-type: none"> current provincial/territorial/federal limits for greenhouse gas emission targets; 	Section 2.8.1, 8.3

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<ul style="list-style-type: none"> • ambient sound levels in the project area. Information on typical sound sources, including geographic extent and temporal variations of ensonified areas; 	Section 5.7.2
<ul style="list-style-type: none"> • ambient night-time light levels at the project site. The EIS will describe night-time illumination levels during different weather conditions and seasons; and 	Section 2.8.3, 5.7.3
<ul style="list-style-type: none"> • information on the variation in weather conditions over the project area using historical records of relevant meteorological parameters, including the following: <ul style="list-style-type: none"> ✓ precipitation (rain and snow); ✓ air temperature (mean, maximum and minimum temperatures); ✓ wind speed and direction; ✓ freezing spray; ✓ lightning; and ✓ visibility. 	Section 5.3
<p>Particular attention should also be given to the analysis of extreme meteorological events that have the potential to adversely affect the project (e.g. tropical storms, hurricanes).</p>	Section 5.4.3, 5.6, 17.2.2, 17.3
<p>Relevant marine climate data sources should be consulted, including but not limited to data from Environment and Climate Change Canada moored weather buoys and any offshore facility operating in the Eastern Newfoundland and Labrador Offshore area. Long term observational data from the International Comprehensive Atmosphere Ocean Dataset (ICOADS), the United States of America National Oceanographic and Atmospheric Administration (NOAA) database of tropical cyclone activity in the North Atlantic, NOAA's Climate Forecast System Reanalysis (CFSR), and the Canadian Lightning Detection Network.</p>	Section 5.3, 5.4, 5.5
<p>7.1.2 Marine environment</p>	
<p>The EIS will describe the marine environment within areas that could be affected by routine project operations or by accidents and malfunctions, including:</p>	Chapter 5, 6
<ul style="list-style-type: none"> • marine water quality (e.g. water temperature, turbidity, hydrocarbons, particulates, salinity, and pH); 	Section 5.4
<ul style="list-style-type: none"> • marine geology and geomorphology (i.e. bottom sediments, including sediment characteristics); 	Section 5.1
<ul style="list-style-type: none"> • physical oceanography including surface and subsurface current patterns, current velocities, waves, storm surges, long shore drift processes, tidal patterns, and tide gauges levels for the site, in proximity to the site, and along the marine transportation routes with consideration of predicted climate change effects; 	Section 5.4
<ul style="list-style-type: none"> • available bathymetric information (e.g. maximum and mean water depths) for the site and along marine transportation routes if applicable; 	Section 5.2
<ul style="list-style-type: none"> • ice climate in the regional study area, including ice formation, thickness, ridging, breakup, and movement; 	Section 5.5

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<ul style="list-style-type: none"> ice conditions along the marine transportation routes with consideration of predicted climate change and its possible effect on the frequency of iceberg and/or ice islands encounters or timing of sea ice formation in the future; 	Section 5.5, 5.6.3, 17.2.3, 17.3.3
<ul style="list-style-type: none"> marine plants, including all benthic and detached algae, marine flowering plants, brown algae, red algae, green algae, and phytoplankton; 	Section 6.1.4, 6.1.5
<ul style="list-style-type: none"> underwater acoustic environment (ambient sound levels from natural sources, shipping, seismic surveys, and other sources), including information on geographic extent and temporal variations. 	Section 5.7.2
<p>When describing the baseline marine environment, relevant data sources such as DFO Research Vessel Surveys/Science Reports and other primary and secondary scientific literature should be consulted. In addition to data sources discussed under Atmospheric Environment and Climate (some of which contain marine data), the proponent should consult MSC50 Wind and Wave Hindcast Data, and long term gridded hourly wind and wave measurements for the North Atlantic. Hourly wind and wave observations from moored buoys, ships and offshore platforms are also available from DFO's Marine Environmental Data Section (MEDS) and from NOAA's ICOADS International Comprehensive Atmosphere Ocean.</p>	Chapter 5, 6
<p>7.1.3 Fish and fish habitat</p>	
<p>The EIS will describe fish and fish habitat within areas that could be affected by routine project operations or by accidents and malfunctions, including:</p>	Section 6.1
<ul style="list-style-type: none"> a characterization of fish populations' species and life stages, including information on the surveys carried out (e.g. location of sampling stations, catch methods, date of catches, species, catch per- unit effort) and the source of data available (e.g. government and historical databases, commercial fishing data, NAFO); 	Section 6.1.1, 6.1.2, 6.1.3, 6.1.7, 6.1.8, 6.1.9
<ul style="list-style-type: none"> a description of primary and secondary productivity in affected water bodies with a characterization of seasonal variability; 	Section 6.1
<ul style="list-style-type: none"> a list of federally and provincially listed marine species at risk that are known to be present in the study area and a description and location of suitable habitats for them; 	Section 6.1.9
<ul style="list-style-type: none"> identification of any potentially-affected critical habitat as defined in the Species at Risk Act; and 	Section 6.1.9
<ul style="list-style-type: none"> benthic flora and fauna and their associated habitat, including sensitive features such as corals and sponges (Note: a benthic habitat survey (ROV / camera), including transects of seafloor in the area of the well locations, may be required). 	Section 6.1.7

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<p>Emphasis will be placed on the waters and benthic environments likely to be affected by the project and their physical and chemical characteristics. Hence, for all areas in which effects are anticipated, the EIS will describe:</p> <ul style="list-style-type: none"> • a description of the physical, chemical and biological characteristics of the fish and fish habitat likely to be directly or indirectly affected by the project; and • a description and mapping of fish habitats as determined by water depths, type of substrate (sediments), aquatic vegetation, and potential use (i.e. spawning, rearing, nursery, feeding, overwintering, migration routes, etc.). Where appropriate, this information should be linked to water depths (bathymetry) to identify the extent of a water body's littoral / photic zone. 	Section 5.1, 5.2, 6.1
7.1.4 Migratory birds and their habitat	
<p>Migratory birds in Canada are protected under the <i>Migratory Birds Convention Act</i> (MBCA) and associated regulations. Preliminary data from existing sources will be gathered, including information such as:</p>	
<ul style="list-style-type: none"> • birds and their habitats that are found or are likely to be found in the study area. This description may be based on existing sources, but supporting evidence is required to demonstrate that the data used are representative of the avifauna and habitats found in the study area. The existing data must be supplemented by surveys, if required; 	Section 6.2
<ul style="list-style-type: none"> • abundance, distribution, and life stages of migratory and non-migratory birds (including waterfowl, raptors, shorebirds, and other land birds) likely to be affected in the project area based on existing information, or surveys, as appropriate, to provide current field data; 	Section 6.2
<ul style="list-style-type: none"> • year-round migratory bird use of the area (e.g. winter, spring migration, breeding season, fall migration), based on preliminary data from existing sources and surveys to provide current field data if appropriate; and 	Section 6.2, 6.2.5
<ul style="list-style-type: none"> • areas of concentration of migratory birds, such as for breeding, feeding or resting. 	Section 6.2.5
<p>Other relevant datasets should be consulted, such as those available from the Canadian Wildlife Service (e.g. Eastern Canadian Seabirds at Sea (ECSAS), Programme intégré de recherches sur les oiseaux pélagiques (PIROP)), the Atlantic Canada Conservation Data Centre (ACCDC), recovery strategies, management plans, Newfoundland and Labrador Department of Environment and Climate Change Wildlife Division, previous petroleum operations in the area and university or other research programs, if available.</p>	Section 6.2.1
7.1.5. Species at Risk	
<p>The EIS will describe federal species at risk and their habitat at the project site and within areas that could be affected by routine project operations or accidents and malfunctions, such as:</p>	
<ul style="list-style-type: none"> • a list of all species at risk listed under the <i>Species at Risk Act</i> that may be affected by the project, using existing data and literature as well as surveys to provide current field data if required; 	Section 6.1.9, 6.2.4, 6.3.7
<ul style="list-style-type: none"> • a list of all species assessed by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) as extirpated, endangered, threatened and of special concern; 	Section 6.1.9, 6.2.4, 6.3.7

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<ul style="list-style-type: none"> any published studies that describe the regional importance, abundance, and distribution of species at risk including recovery management plans, recovery strategies and/or action plans. The existing data must be supplemented by surveys, if required; and 	Section 6.1.7.5, 6.1.9, 6.2.4, 6.3.7
<ul style="list-style-type: none"> residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and 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. 	Section 6.1.9, 6.2.4, 6.3.7, 6.4
<p>The following information sources on species at risk and species of conservation concern should be among those consulted:</p> <ul style="list-style-type: none"> ✓ <i>Species at Risk Act</i> Registry (www.sararegistry.gc.ca); ✓ COSEWIC; ✓ Relevant government agencies; ✓ Local naturalist and interest groups; and ✓ Indigenous groups and First Nations. 	Section 6.1.1, 6.2.1, 6.3.1, 6.4.1
7.1.6. Marine mammals	
<ul style="list-style-type: none"> marine mammal species that may be present, the times of year they are present, the ranges of the species and their migration patterns, 	Section 6.3.2, 6.3.3, 6.3.4, 6.3.5, 6.3.7
<ul style="list-style-type: none"> important areas in the vicinity of the drilling sites or supply routes (e.g. for mating, breeding, migration routes, feeding and nursing of young) or that could be impacted by the project (e.g. underwater acoustics, collisions, spills, etc.). 	Section 6.3.8
<ul style="list-style-type: none"> a list of federally and provincially listed marine mammals at risk that are known to be present in the study area and a description and location of suitable habitats for them; and 	Section 6.3.7
<ul style="list-style-type: none"> identification of any potentially-affected critical habitat as defined in the <i>Species at Risk Act</i>. 	Section 6.3.7
<p>Relevant datasets should be consulted, such as DFO marine mammal sightings database, DFO Research Vessel Surveys/Scientific Reports, CNLOPB database, and other primary and secondary scientific literature.</p>	Section 6.3.1
7.1.7. Marine turtles	
<ul style="list-style-type: none"> marine turtle species that may be present, the times of year they are present, the ranges of the species and their migration patterns; and 	Section 6.3.2, 6.3.6
<ul style="list-style-type: none"> important areas in the vicinity of the drilling sites or supply routes (e.g. for feeding) or that could be impacted by the project (e.g. routine discharges, collisions, spills, entanglement, underwater acoustics, etc.). 	Section 6.3.8

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7.1.8. Indigenous peoples	
The proponent shall gather and document baseline information in the EIS for each Indigenous group identified in Part 2, Section 5 of these guidelines (and any groups identified after these guidelines are finalized). The baseline information will:	Section 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7
<ul style="list-style-type: none"> Describe and characterize the elements in paragraph 5(1)(c) of CEAA 2012 based on the spatial and temporal scope selected for the EA according to the factors outlined in Part 1, Section 3.2.3 of this document. 	Section 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7
<ul style="list-style-type: none"> Characterize the regional context of each of the elements of paragraph 5(1)(c) of CEAA 2012 to support the assessment of project related effects and cumulative effects, including consideration of the differences of experiences by sub-populations within an Indigenous group, as appropriate (for example, women, youth, elders, families). 	Section 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7
<ul style="list-style-type: none"> Be sufficient to provide a comprehensive understanding of the current state of each VC related to effects of changes to the environment on Indigenous peoples. Each of the VCs for effects of changes to the environment on Indigenous peoples is interrelated and therefore baseline information will often overlap. 	Chapter 14; Section 7.3
The proponent should engage with Indigenous groups to understand where baseline information and the respective assessment fit appropriately. Note: VCs identified for biophysical assessment (such as fish and fish habitat) may contribute to assessment and conclusion of VCs related to effects of changes to the environment on Aboriginal peoples.	Section 3.3, 7.3
<i>Health and Socio-Economic Conditions</i>	
Baseline information is required for health and socio-economic conditions. For health this includes the state of physical, mental and social well-being. For socio-economic conditions, as well as the economic and social activities of an individual Indigenous group, the baseline will include contextual information regarding their practices. Specific aspects that will be considered include:	Section 7.3
<ul style="list-style-type: none"> general information about Indigenous populations and sub-populations; 	Section 7.3
<ul style="list-style-type: none"> consumption of country foods (also known as traditional foods) including food that is trapped, fished, or harvested for subsistence or medicinal purposes, outside of the commercial food chain; 	Section 7.3
<ul style="list-style-type: none"> which country foods are consumed by which groups, how frequently, and where these country foods are harvested; 	Section 7.3
<ul style="list-style-type: none"> commercial activities (e.g. fishing); and 	Section 7.1, 7.3
<ul style="list-style-type: none"> any project components and a description of any activities (e.g. exclusion zones) that may affect commercial fisheries or other uses. 	Section 13.2, 13.3, 14.2, 14.3

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<i>Physical and Cultural Heritage</i>	
<p>Baseline information for physical and cultural heritage (including any site, structure or thing of archaeological, paleontological, historical or architectural significance) will consider all elements of cultural and historical importance to Indigenous groups in the area and is not restricted to artifacts considered under provincial heritage legislative requirements. As applicable, specific aspects that will be considered include, but are not limited to:</p> <ul style="list-style-type: none"> • burial sites; • cultural landscapes; • sacred, ceremonial or culturally important places, objects or things; and • archaeological potential and/or artefact places. 	Section 7.3
<i>Current Use of Lands and Resources for Traditional Purposes</i>	
<p>Baseline information for current use of lands and resources for traditional purposes will focus on the traditional activity (e.g. fishing) and include a characterization of all attributes of the activity that can be affected by environmental change. This includes understanding of the baseline conditions of the quality and quantity of resources (e.g. preferred species and perception of quality, cultural connections to species), access to resources (e.g. physical access, timing, seasonality, distance from community) and overall quality of the experience of the practice (e.g. noise, air quality, visual landscape and presence of others). Specific aspects that will be considered include, but are not limited to:</p>	Section 7.3
<ul style="list-style-type: none"> • location of traditional territory (including maps where available); 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7
<ul style="list-style-type: none"> • commercial and traditional fishing activity within the project’s potential zone of influence, including licences and maps; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> • traditional uses currently practiced or practiced in living memory, including practices that an Indigenous group wants to engage in the future or recently did but cannot given the particular context; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> • location of reserves and communities; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> • location of traditional gathering or teaching grounds; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8

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<ul style="list-style-type: none"> fish, wildlife, birds, plants or other natural resources of importance for traditional use; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> places where fish, wildlife, birds, plants or other natural resources are harvested, including places that are preferred; 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> access and travel routes for conducting traditional practices; frequency, duration or timing of traditional practices; and 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<ul style="list-style-type: none"> cultural values associated with the area affected by the project and the traditional uses identified. 	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
<p>Any other baseline information that supports the analysis of predicted effects on Indigenous peoples will be included as necessary. The EIS will also indicate how input from groups, including Indigenous knowledge, 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>Information collected as part of Section 6 Aboriginal and Treaty rights can be used to inform the baseline information for the elements of 5(1)(c) listed above.</p> <p>Should there be a lack of Indigenous knowledge; the proponent is still expected to seek information from other sources to allow for a complete assessment of effects to be presented in the EIS. For more information on requirements for the effects assessment, see Part 2, Section 7.3.7 of these guidelines.</p>	Section 7.3.1, 7.3.2, 7.3.3, 7.3.4, 7.3.5, 7.3.6, 7.3.7, 7.3.8
7.1.9. Other changes to the environment arising as a result of a federal decision or due to changes on federal lands, in another province or outside Canada	
<p>Should there be the potential for a change to the environment arising as a result of a federal decision(s), or on federal lands, lands in another province or lands outside Canada, the EIS will include baseline information on the environmental component likely to be affected (if this information is not already covered in other subsections of these guidelines). For example, if an authorization provided under the <i>Fisheries Act</i> was to result in the flooding of key wildlife habitat, baseline information should be provided on the wildlife species likely to be affected.</p>	Section 18.5.2

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7.1.9.1. Special areas	
<p>The EIS will describe special areas (e.g. marine refuges, species at risk critical habitat that has been designated and that has been proposed or that may be under consideration, Important Bird Areas, Migratory Bird Sanctuaries, ecological reserves, marine protected areas, etc.) at the project site and within areas that could be affected by routine project operations or accidents and malfunctions, such as:</p> <ul style="list-style-type: none"> • Marine Refuge Areas • Ecologically and Biologically Significant Areas (e.g. Slopes of the Flemish Cap and Grand Bank) • Fishery Closure Areas (e.g. Northwest Atlantic Fisheries Organization Northwest Flemish Cap - 10) • Vulnerable Marine Ecosystem (e.g. Sackville Spur) 	Section 6.1.9, 6.2.4, 6.2.5, 6.3.7, 6.4
<p>The EIS will describe the distances between the edge of the project area (i.e. drill sites and marine transportation routes) and special areas. It shall state the rationale for designating specific areas as “special” (i.e. the environmental features that define the special area).</p>	Section 6.4
7.1.9.2. Human environment	
<p>Baseline information for the human environment will describe and characterize the aspects that could be affected by routine project operations or accidents and malfunctions. At a minimum, this is to include:</p>	
<ul style="list-style-type: none"> • any federal lands, lands located outside the province or Canada that may be affected by the project operations or by accidents and malfunctions; 	Chapter 7, 13, 14, 16
<ul style="list-style-type: none"> • the current and historical use of waters that may be affected by routine project operations or by accidents and malfunctions, including: 	
<ul style="list-style-type: none"> ✓ current commercial and recreational fishing activity, including licence holders and species fished; 	Section 7.1
<ul style="list-style-type: none"> ✓ other ocean uses (e.g. shipping, research, oil, and gas, military, ocean infrastructure [e.g. subsea cable]); 	Section 7.2
<ul style="list-style-type: none"> • health and socio-economic conditions that could be affected by routine project operations or accidents and malfunctions, 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; 	Section 7.4
<ul style="list-style-type: none"> • physical and cultural heritage, including structures, sites, or things of historical, archaeological, paleontological, or architectural significance that could be affected by routine project operations or accidents and malfunctions, if applicable; 	Section 7.4.4
<ul style="list-style-type: none"> • the rural and urban settings that could be affected by routine project activities or accidents and malfunctions; and 	Section 7.4.1

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<ul style="list-style-type: none"> any project components and activities (e.g. exclusion zones) that may affect commercial or recreational fisheries or other uses. 	Section 13.2, 13.3, 14.2, 14.3
The EIS should also discuss the potential to encounter unexploded ordnance (UXOs), based on consultation with the Department of National Defence.	Section 7.2.7
7.2. Predicted changes to the physical environment	
The EA will include a consideration of the predicted changes to the environment as a result of the project being carried out or as a result of any powers, duties or functions that are to be exercised by the federal government in relation to the project. These predicted changes to the environment are to be considered in relation to each phase of the project (offshore drilling; construction, installation, hook-up and commissioning; production and operation activities; maintenance operations; tanker operations; and decommissioning of wells). The magnitude, geographic extent, duration, timing and frequency of the changes should be described, and whether the changes are reversible or irreversible. As changes to various parts of the physical environment, listed below, may be inter-related as part of an ecosystem, the EIS will explain and describe the connections between the changes described.	Chapters 8 to 14
The EIS will include stand-alone sections that summarize those changes that may be caused by the project on the components of the environment listed in paragraph 5(1)(a) of CEAA 2012: fish and fish habitat, aquatic species, and migratory birds.	Section 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 18.5
The EIS will include a stand-alone section that summarizes any change the project may cause to the environment that may occur on federal lands or lands outside the province in which the project is to be located (including outside of Canada).	Section 18.5.1
In situations where the project requires one or more federal decisions identified in section 5(2), the EIS will also include a stand-alone section that describes any change that may be caused by the project on the environment that is directly linked or necessarily incidental to these decisions (e.g. changes to commercial fishing).	Section 18.5.2
7.3. Predicted effects on valued components	
Based on the predicted changes to the environment identified in Section 7.2 above, the proponent is to assess the environmental effects of the project on the following VCs. All interconnections between VCs and between changes to multiple VCs will be described:	Section 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 18.5
7.3.1. Fish and fish habitat	
<ul style="list-style-type: none"> the identification of any potential adverse effects to fish and fish habitat as defined in subsection 2(1) of the <i>Fisheries Act</i>. The assessment will include a consideration of: 	Chapter 9; Section 15.2, 16.7.4
<ul style="list-style-type: none"> ✓ calculations of any potential habitat loss (temporary or permanent) in terms of surface areas (e.g. spawning grounds, juvenile, rearing, and feeding areas), and in relation to availability and significance; 	Section 9.3, 9.4, 9.6
<ul style="list-style-type: none"> ✓ effects on water quality including changes to chemical composition, temperature, oceanographic conditions, etc.; 	Section 9.3, 9.4

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✓ modification of benthic habitat including corals and sensitive habitat, area affected by drilling waste, disturbance to water column (e.g. reproduction, juvenile, rearing, and feeding, movements);	Section 9.3, 9.4
✓ the modifications of hydrological and hydrometric conditions on fish habitat and on the fish species' life cycle activities (e.g. reproduction, juvenile, rearing, and feeding, movements);	Section 9.3, 9.4
✓ any potential imbalances in the food web in relation to baseline conditions;	Section 9.3, 9.4
✓ underwater noise emissions from project activities (i.e. possible concurrent drilling, vertical seismic profiling, offshore vessel operation, well decommissioning) and how it may affect fish health and behaviour;	Section 9.3, 9.4
✓ effects on the primary and secondary productivity and how project-related effects may affect fish food sources;	Section 9.3, 9.4
✓ the anticipated changes in the composition and characteristics of the following: the populations of various fish species, including shellfish and forage fish, including mortality of fish, eggs and larvae; environment and species (e.g. corals, plants);	Section 9.3, 9.4
✓ any modifications in migration or local movements during and after project activities (e.g. vertical seismic profiling, drilling); and	Section 9.3, 9.4
✓ any modifications and use of habitats by federally or provincially listed fish species at risk.	Section 9.5
• a discussion of the effects of drilling waste disposal on fish health, marine benthos (fish habitat) and other components of the aquatic environment;	Section 9.3.3, 9.4.3
• a discussion of the length of time it would take for the benthic environment to return to baseline conditions in water depths within which the Project would occur;	Section 9.3, 9.4
• a discussion of how data examining the deposition of drilling-related wastes (e.g. fluid, mud residues, cuttings) and acoustic monitoring data would be collected during and after drilling operations and how this would be used to verify effects predictions.	Section 9.7
7.3.2. Marine plants	
• effects on marine plants, including all benthic and detached algae, marine flowering plants, brown algae, red algae, green algae, and phytoplankton.	Section 9.3, 9.4
7.3.3. Marine mammals	
• effects on marine mammals, including but not limited to:	
✓ injury and mortality from vessel collisions or thruster interaction;	Section 11.1.5, 11.2, 11.3, 11.4

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<ul style="list-style-type: none"> ✓ direct and indirect effects caused by increased disturbance (e.g. noise from all proposed activities including possible concurrent drilling) including mortality, physical auditory injury and behavioural changes (e.g. avoidance, disruption to reproductive and feeding behaviour, deviation in migration routes, communication masking (e.g. interception of vocalizations); 	Section 11.1.5, 11.2, 11.3, 11.4,
<ul style="list-style-type: none"> ✓ exposure to spilled contaminants (e.g. oils) and operational discharges (e.g. deck drainage, gray water, black water); 	Section 11.1.5, 11.2, 11.3, 11.4, 16.7.6
<ul style="list-style-type: none"> ✓ effects resulting from any changes to marine mammal prey; and 	Section 11.1.5, 11.2, 11.3, 11.4
<ul style="list-style-type: none"> ✓ change in water column characteristics from drill muds and cuttings disposal. 	Section 11.1.5, 11.2, 11.3, 11.4
7.3.4. Marine turtles	
<ul style="list-style-type: none"> • effects on marine turtles, including but not limited to: 	
<ul style="list-style-type: none"> ✓ injury and mortality from vessel collisions or thruster interaction; 	Section 11.1.5, 11.2, 11.3, 11.4
<ul style="list-style-type: none"> ✓ direct and indirect effects caused by increased disturbance (e.g. noise, and light from all proposed activities including possible concurrent drilling,) including mortality, physical auditory injury and behavioural changes (e.g. avoidance, disruption to feeding behaviour, increased swimming speed, deviation in migration, communication masking, and behavioural disturbance); 	Section 11.1.5, 11.2, 11.3, 11.4
<ul style="list-style-type: none"> ✓ exposure to spilled contaminants (e.g. oils) and operational discharges (e.g. deck drainage, gray water, black water); and 	Section 11.1.5, 11.2, 11.3, 11.4, 16.7.6
<ul style="list-style-type: none"> ✓ change in water column characteristics from drill muds and cuttings disposal. 	Section 11.1.5, 11.2, 11.3, 11.4
7.3.5. Migratory birds	
<ul style="list-style-type: none"> • direct and indirect adverse effects on migratory birds, including population level effects that could be caused by all project activities, including but not limited to: 	
<ul style="list-style-type: none"> ✓ noise disturbance from seismic equipment including both direct effects (physiological), or indirect effects (foraging behaviour of prey species); 	Section 10.1.5, 10.2, 10.3, 10.4
<ul style="list-style-type: none"> ✓ physical displacement as a result of vessel presence (e.g. disruption of foraging activities); 	Section 10.1.5, 10.2, 10.3, 10.4

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✓ nocturnal disturbance from night-time illumination levels from lights and flares during different weather conditions and seasons and during different project activities (e.g. drilling, flaring);	Section 10.1.5, 10.2, 10.3, 10.4
✓ increased opportunities for raptor predators,	Section 10.1.5, 10.2, 10.3, 10.4
✓ physical harm or mortality as a result of attraction to the drilling unit and vessels and subsequent collision or exposure to vessel-based threats, incineration in flares, oiling);	Section 10.1.5, 10.2, 10.3, 10.4
✓ exposure to spilled contaminants (e.g. oils) and operational discharges (e.g. deck drainage, grey water, black water);	Section 10.1.5, 10.2, 10.3, 10.4, 16.7.5
✓ attraction of, and increase in, prey species as a result of waste disposal practices (i.e. sanitary and food waste) and the presence of incapacitated/dead prey near the Mobile Offshore Drilling Unit/Floating Production Storage and Offloading Facility or support vessels;	Section 10.1.5, 10.2, 10.3, 10.4
✓ the effects of oil spills in the nearshore or that reach land on landbird species; and	Section 16.7.5
✓ change in marine habitat quality from drill muds and cuttings.	Section 10.1.5, 10.2, 10.3, 10.4
7.3.6. Species at risk	
<ul style="list-style-type: none"> the potential adverse effects of the project on species at risk listed under the <i>Species at Risk Act</i> and those species listed by the Committee on the Status of Endangered Wildlife in Canada classified as extirpated, endangered, threatened or of special concern and their critical habitat, including: 	
✓ alteration of habitat (including critical habitat) features;	Section 9.5, 10.5, 11.5
✓ direct and indirect effects from noise and lights (from all proposed activities including possible concurrent drilling), and exposure to contaminants of concern;	Section 9.5, 10.5, 11.5
✓ alteration in migration patterns of federal species at risk and related effects (e.g. displacement, increased risk of collision);	Section 9.5, 10.5, 11.5
✓ direct and indirect effects on the survival or recovery of federally listed species (list species); and	Section 9.5, 10.5, 11.5
✓ displacement of any species from critical habitat.	Section 9.5, 10.5, 11.5
7.3.7. Indigenous peoples	
With respect to Indigenous peoples, provide a description and analysis, for each Indigenous group, of how changes to the environment caused by the project will affect the health and socio-economic conditions, physical and cultural heritage including any structure, site or thing of historical, archaeological or paleontological importance, and current use of lands and resources for traditional purposes.	Chapter 14

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<i>Health and Socio-economic Conditions</i>	
Baseline information gathered as part of the assessment of effects described in 5(1)(c) of CEEA 2012, as well as general information about Indigenous populations and sub-populations could inform the assessment of human health. Such information would include:	
<ul style="list-style-type: none"> • The assessment of impacts to human health will be based on effects of changes to the environment on Indigenous peoples' human health, focusing on effects on health outcomes or risks in consideration of, but not limited to, potential changes in water quality (e.g. recreational and cultural uses), availability of country foods (e.g. marine species), and noise exposure. 	Section 14.2, 14.3, 14.4
<ul style="list-style-type: none"> • 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. 	Section 14.2, 14.3, 14.4
<ul style="list-style-type: none"> • The proponent must provide a justification if it determines that an assessment of the potential for contamination of country foods is not required or if some contaminants are excluded from the assessment. 	Section 14.2, 14.3, 14.4
<ul style="list-style-type: none"> • Consider effects to mental and social well-being of Indigenous peoples. Where adverse health effects are predicted, any incidental effects such as effects on current use of lands and resources for traditional purposes should also be assessed. 	Section 14.1.3, 14.1.5, 14.5
<ul style="list-style-type: none"> • Consider and document how effects of changes to the environment could be different for particular sub-populations within an Indigenous group (for example, women, youth, elders, specific families). 	Section 14.1.3, 14.1.5, 14.2
<ul style="list-style-type: none"> • This assessment of impacts to human health will assess effects of changes to the environment on Aboriginal peoples' socio-economic conditions, including, but not limited to: <ul style="list-style-type: none"> ✓ the use of navigable waters ✓ commercial fishing (e.g. catch rates, exclusion zones, gear damage or loss, marketability of seafood products) and food security ✓ commercial outfitters ✓ recreational use 	Section 13.2, 13.3, 14.2, 14.3

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<i>Physical and Cultural Heritage</i>	
<ul style="list-style-type: none"> • As applicable, this assessment will assess effects of changes to the environment on Aboriginal peoples' physical and cultural heritage, and structures, sites or things of historical, archaeological, paleontological or architectural significance to groups, including, but not limited to: <ul style="list-style-type: none"> ✓ the loss or destruction of physical and cultural heritage ✓ changes to access to physical and cultural heritage ✓ changes to the cultural value or importance associated with physical and cultural heritage ✓ changes to sacred, ceremonial or culturally important places, objects, or things ✓ changes to visual aesthetics over the life of the Project 	Section 14.2, 14.3, 14.4
<i>Current use of lands and resources for traditional purposes</i>	
<ul style="list-style-type: none"> • This assessment will characterize the effects (including cumulative effects) on the use or activity (e.g. hunting, fishing) as a result of the underlying changes to the environment (i.e. how the activity could change if the project proceeds), using the approach described in the Agency's guide entitled Technical Guidance for Assessing the Current Use of Lands and Resources for Traditional Purposes under CEAA 2012. This assessment should consider changes caused by the Project through changes to the environment, can cause effects to the practice of a current use or activity through the following interactions with: 	Section 14.2, 14.3, 15.6; 15.7
<ul style="list-style-type: none"> ✓ resources used (fish, marine mammals, birds, or other natural resources), such as changes to the quantity, quality, and availability of resources and habitat, as well as to the sufficiency of resources required to conduct an activity or practice, including perception of effects, avoidance, and consideration of the seasonal round; 	Section 14.2, 14.3, 14.4, 15.6
<ul style="list-style-type: none"> ✓ any changes or alterations to access into the areas used for traditional purposes and commercial fishing, including implementation of exclusion zones; 	Section 14.2, 14.3, 14.4, 15.6; 15.7
<ul style="list-style-type: none"> ✓ experience by Indigenous peoples, including changes that affect the spiritual and cultural experiences of the activity or practice, as well as sense of place and wellbeing, and the applicability and transmission of Indigenous knowledge, laws, customs and traditions. 	Section 14.2, 14.3, 14.4, 15.6; 15.7
<ul style="list-style-type: none"> • Using the interactions listed in the above bullet, the proponent should also consider the following in their assessments: <ul style="list-style-type: none"> ✓ the cultural value or importance associated with traditional uses or areas affected by the project (e.g. values or attributes of the area that make it important as a place for inter- generational teaching of language or traditional practices, communal gatherings, integrity of preferred traditional practice areas); 	Section 14.2, 14.3, 14.4, 15.6; 15.7
<ul style="list-style-type: none"> ✓ how timing of project activities (e.g. drilling, flaring) have the potential to interact with the timing of traditional practices, and any potential effects resulting from overlapping periods; 	Section 14.2, 14.3, 14.4, 15.6; 15.7

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✓ how environmental effects to lands and resources could affect the use and associated activities;	Section 14.2, 14.3, 14.4, 15.6; 15.7
✓ a discussion of how drilling activities correlate to key fisheries windows, and any potential impacts resulting from overlapping periods;	Section 14.2, 14.3, 14.4, 15.6
✓ consideration of the regional context for traditional use, and the value of the project area in that regional context, including alienation of lands from traditional use; and	Section 7.3, 14.2, 14.3, 14.4, 15.6; 15.7
✓ an assessment of the potential to return affected areas to pre-project conditions to support traditional practices (including the identification of end land use goals).	Section 14.2, 14.3, 14.4, 15.6; 15.7
<ul style="list-style-type: none"> Other effects of changes to the environment on groups should be reflected as necessary. 	Section 14.2, 14.3, 14.4
The proponent is expected to provide mitigation measures for effects of changes to the environment on Aboriginal peoples pursuant to section 5 (1)(c) of CEEA, 2012 (see Part 2, Section 7.4 of these guidelines).	Section 14.1.5.3
7.3.8. Other valued components that may be affected as a result of a federal decision or due to effects on federal lands, another province or outside Canada	
If there is the potential for a change to the environment arising as a result of a federal decision(s), for example an authorization under section 138(1) of the Canada-Newfoundland and Labrador Atlantic Accord Implementation Act or section 35 of the Fisheries Act, the EIS should include a description of the specific project components for which a federal authorization or other regulatory decision is required, and an assessment of any other VCs (not already covered in other subsections of these guidelines) that may be affected by the changes to the environment caused by these specific project components. If there is the potential for the project to result in environmental changes on federal lands (or waters), another province, or another country, then VCs of importance not already identified should be included. For example, if the project will result in the generation of greenhouse gas emissions, the EIS should include a description of the project's greenhouse gas emissions in a regional, provincial, national or international context if applicable. Suggested VCs are noted below for this project.	Section 18.5
7.3.8.1. Air quality and greenhouse gas emissions	
<ul style="list-style-type: none"> comparison of anticipated air quality concentration against the Canadian Ambient Air Quality Standards (CAAQS) for any relevant federal and/or provincial criteria for other contaminants of potential concern; 	Section 5.6, 5.7, 8.3, 8.4, 8.6
<ul style="list-style-type: none"> description of all methods and practices (e.g. control equipment) that will be implemented to minimize and control atmospheric emissions throughout the project life cycle, as well as the assumed performance of the emission control approaches (i.e. leak detection method and frequency, flare efficiency, maintenance practices). If the best available technologies are not included in the project design, the proponent will need to provide a rationale for the technologies selected; 	Section 2.5.3, 2.8.1, 8.4

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<ul style="list-style-type: none"> • an estimate of the direct greenhouse gas and criteria air contaminant emissions associated with all phases of the project (i.e. including drilling, flaring, production, and marine and helicopter transportation) as well as any mitigation measures proposed to minimize greenhouse gas emissions. This information is to be presented by individual pollutant and should also be summarized in CO₂ equivalent per year. The proponent will use the global warming potential that is currently used for national and provincial reporting purposes. The EIS will: <ul style="list-style-type: none"> ✓ provide an estimate of the contribution of the project emissions from exhaust, venting and fugitive emissions at the local, provincial and federal scale, and indicate the relative magnitude of the project's contribution to greenhouse gas emissions (low, medium or high emission rates) from exhausts, venting and fugitive emissions. How these estimates compare to other similar projects must also be shown; ✓ justify all estimated emissions and emission factors used. Must specify where to find the emission factors that were used or justify the use of their own estimations; ✓ provide the estimation or derivation method, and disclose and describe all assumptions and emission intensity factors used; ✓ provide information on the fuel type and the estimated amount of fuel consumed for power generation; and ✓ provide information related to the project's electrical demand and sources of electrical power for equipment (i.e. the project's main source and any other additional sources (generators, etc.), as appropriate), as well as how emission estimates were calculated. 	Section 2.5.3, 2.8.1, 5.7.1, 8.4, 8.5, 8.6
<ul style="list-style-type: none"> • changes in ambient noise levels; and 	Section 2.8.3, 5.7.2
<ul style="list-style-type: none"> • changes in night-time light levels. 	Section 2.8.3, 5.7.3
7.3.8.2. Commercial fisheries	
<ul style="list-style-type: none"> • Effects on commercial fisheries, including, but not limited to: 	
<ul style="list-style-type: none"> ✓ behavioural changes in target species in relation to catchability, 	Section 9.1.5, 9.5, 13.1.5, 13.2, 13.3
<ul style="list-style-type: none"> ✓ conflict with harvesting activities and fish gear; 	Section 13.1.5, 13.2, 13.3
<ul style="list-style-type: none"> ✓ displacement from fishing areas (e.g. exclusion zones); 	Section 13.1.5, 13.2, 13.3
<ul style="list-style-type: none"> ✓ gear loss or damage; 	Section 13.1.5, 13.2, 13.3
<ul style="list-style-type: none"> ✓ a discussion of how project timing correlates to key fisheries windows and any potential effects resulting from overlapping periods; 	Section 13.1.5, 13.2, 13.3
<ul style="list-style-type: none"> ✓ effects from residual decommissioned subsea infrastructure that could be left in place (e.g. wellheads, flowlines); and 	Section 13.1.5, 13.2, 13.3

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✓ changes to habitat of commercial fish species (e.g. noise, water and sediment quality).	Section 9.1.5, 9.5, 13.1.5, 13.2, 13.3
7.3.8.3. Special areas	
<ul style="list-style-type: none"> effects on special areas, including, but not limited to: 	
✓ change to habitat quality (e.g. noise, light, water, sediment quality);	Section 12.1.5, 12.2, 12.3
✓ impairment of ecosystem functioning; and	Section 12.1.5, 12.2, 12.3
✓ change to the environmental features that define the special area (e.g. physical features, species assemblages, species abundance).	Section 12.1.5, 12.2, 12.3
7.3.8.4. Human environment	
<ul style="list-style-type: none"> effects of changes to the environment and the positive and negative consequences on health and socio-economic conditions, physical and cultural heritage and any structure, site or thing that is of historical, archaeological, paleontological, or architectural value, including, but not limited to the following, as applicable: 	
✓ recreational activities;	Section 13.2, 13.3
✓ other ocean uses;	Section 13.2, 13.3
✓ socio-economic conditions;	Section 13.2, 13.3
✓ human health;	Section 13.2, 13.3
✓ physical and cultural heritage (e.g. shipwrecks);	Section 13.2, 13.3
✓ rural and urban settings that could be affected by routine activities and/or accidents and malfunctions.	Section 13.2, 13.3
7.4 Mitigation measures	
Every EA conducted under CEAA 2012 will consider measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the project. Under CEAA 2012, mitigation measures include measures to eliminate, reduce or control the adverse environmental effects of a designated project, as well as restitution for damage to the environment through replacement, restoration, compensation, or other means. Measures will be specific, achievable, measurable, and verifiable, and described in a manner that avoids ambiguity in intent, interpretation, and implementation. Mitigation measures may be considered for inclusion as conditions in the EA decision statement and/or in other compliance and enforcement mechanisms provided by other authorities' permitting or licensing processes.	Section 2.10, 8.1, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5, 15.1.5, 16.1, 18.2

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<p>As a first step, the proponent is encouraged to use an approach based on the avoidance and reduction of the effects at the source. Such an approach may include the modification of the design of the project or relocation of project components.</p>	<p>Section 2.5, 2.7, 2.8, 2.10</p>
<p>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. The EIS will then describe the project's environmental protection plan and its environmental management system, through which the proponent will deliver this plan. The plan will provide an overall perspective on how potentially adverse effects would be minimized and managed over time. 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.</p>	<p>Section 2.10, 8.4, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5, 15.1.5, 16.1, 18.2</p>
<p>The EIS will then describe mitigation measures that are specific to each environmental effect identified. Mitigation measures will be written as specific commitments that clearly describe how the proponent intends to implement them and the environmental outcome the mitigation measure is designed to address. The EIS will identify and describe mitigation measures to avoid, or lessen potential adverse effects on species and/or critical habitat listed under the Species at Risk Act. These measures will be consistent with any applicable recovery strategy and action plans. The EIS will also identify and describe mitigation measures to avoid or lessen adverse effects on listed COSEWIC species.</p>	<p>Section 8.4, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5, 15.1.5, 16.1, 18.2</p>
<p>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. The EIS will also present an assessment of the effectiveness of the proposed technically and economically feasible mitigation measures. The reasons for determining if the mitigation measure reduces the significance of an adverse effect will be made explicit. The proponent is also encouraged to identify mitigation measures for effects that are adverse although not significant.</p>	<p>Section 2.10, 8.4, 9.1.5, 10.1.5, 11.1.5, 12.1.5, 13.1.5, 14.1.5, 15.1.5, 16.1, 18.2</p>
<p>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 measures will be justified. The EIS will identify who is responsible for the implementation of these measures and the system of accountability.</p>	<p>Section 2.7, 2.10</p>
<p>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. In addition, the EIS will identify the extent to which technological innovations will help mitigate environmental effects. Where possible, it will provide detailed information on the nature of these measures, their implementation, management, and the requirements of the follow-up program.</p>	<p>Section 2.10, 18.2, 18.4</p>
<p>Adaptive management is not considered as a mitigation measure, but if the follow-up program (refer to Section 8 below) indicates that corrective action is required, the proposed approach for managing the action should be identified.</p>	<p>Section 18.4</p>

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7.5. Significance of residual effects	
After having established the technically and economically feasible mitigation measures, the EIS will present any residual environmental effects of the project on the VCs identified in Section 6.3 above. The residual effects, even if very small or deemed insignificant will be described.	Section 8.6, 9.6.2, 10.6.2, 11.6.2, 12.5.2, 13.5.3, 14.4.2
The EIS will then provide a detailed analysis of the significance of the residual environmental effects that are considered adverse following the implementation of mitigation measures, using the Agency's guidance on determining whether a Project is likely to cause significant adverse environmental effects.	Section 8.6, 9.6.3, 10.6.3, 11.6.3, 12.5.3, 13.5.3, 14.4.3
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 or review panel, technical and regulatory agencies, Indigenous groups, and the public to review the proponent's analysis of the significance of effects. For those predicted adverse effects that relate to effects of the changes to the environment on Aboriginal peoples, the proponent will consider the views of the Indigenous groups in the determination of the definitions of the significance criteria. The EIS will document the terms used to describe the level of significance.	Section 4.3.3
<p>The following criteria should be used in determining the significance of residual effects:</p> <ul style="list-style-type: none"> • magnitude • geographic extent • timing • duration • frequency • reversibility • ecological and social context • existence of environmental standards, guidelines, or objectives for assessing the effect 	Section 4.3.3
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 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.	Section 4.3.3
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 (e.g. low, medium, high) related to the data and methods used within the framework of this environmental analysis.	Section 4.3.3, 8.6, 9.6, 10.6, 11.6, 12.5, 13.5, 14.4, 16.7.4.8, 16.7.5.8, 16.7.6.9, 16.7.7.5, 16.7.8.5, 16.7.9.6

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7.6. Other effects	
7.6.1. Effects of potential accidents or malfunctions	
The failure of certain works caused by equipment malfunctions, human error, or exceptional natural events (e.g. earthquake, hurricane, submarine landslide) could cause adverse environmental effects. The proponent will therefore conduct an analysis of the risks of accidents and malfunctions, determine their effects, and present preliminary emergency response measures.	Section 16.2
Taking into account the lifespan of different project components, 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 as defined in section 5 of CEEA 2012), the plausible worst case scenarios and the effects of these scenarios. The proponent will also indicate how the addition of this project affects the overall probability of spill occurrences in the Flemish Pass area, given the presence of other operations such as exploratory drilling, each of which presents its own level of risk.	Section 16.3
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 or malfunction and would potentially result in an adverse environmental effect as defined in section 5 of CEEA 2012.	Section 16.2, 16.3, 16.4
The EIS will describe the safeguards that have been established to protect against such occurrences and the contingency and emergency response procedures that would be put in place if such events do occur. The EIS will also describe the existing mechanisms and arrangements with response organizations for emergency response within the spatial extent of the project.	Section 16.1
Of particular concern with development well drilling, production, produced water, and transfer of crude in the marine environment is the potential for accidental spills. This includes both low-probability, large-scale events (e.g. blowouts, surface, sub-sea or underground) and relatively smaller-volume batch spills that may occur more frequently. These incidents may affect, among other things, the health and survival of plankton, fish eggs and larvae, juvenile and adult fish, marine mammals, marine birds, marine turtles, and marine invertebrates in the affected area, including species at risk, which may include special areas and areas of high ecological significance. Fishing activity, including fishing by Indigenous peoples, and the commercial marketability of seafood products harvested in the Newfoundland and Labrador offshore may also be adversely affected by a spill or blowout. The effects of accidental spills by source and blowouts will therefore require assessment in the EIS, including fate and behaviour modelling, and spill trajectory modelling for worst-case large-scale spill scenarios that may occur based on CNLOPB spill records and global spill events, including any assumptions, limitations, and formulated hypotheses, accompanied by supporting documentation of methodologies and the cumulative results of the modelling. Provide a definition of worst-case scenario. Fate and behaviour modelling and spill trajectory modelling should use the current state of the art tools and incorporate peer-reviewed scientific data.	Section 16.3, 16.4, 16.5, 16.6, 16.7

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<p>Results should be reported in a manner that illustrates the effects of varying weather and oceanographic conditions that may occur throughout the year, and should include a projection for spills originating at the site and followed until the slick volume is reduced to a negligible amount or until a shoreline is reached. A discussion on water depth and its effect on blow-out rate and spill trajectory modelling assumptions (i.e. entrainment of oil in the water column, the behaviour of heavier ends, and a discussion of precipitation of oil on the seafloor), must be provided. Where well locations have not yet been identified, points of origin selected for spill trajectory models should be conservative (e.g. selecting a potential location within the proposed drilling area that is closest to a sensitive feature or that could result in greatest effects).</p>	<p>Section 16.4</p>
<p>Based on the results of the spill modelling and analysis in the EIS, an emergency response plan (e.g. oil spill contingency plan) for spills (small and large) and blowouts will be required. At a minimum, an outline of the emergency response plan along with key commitments is required in the EIS. Including a discussion of the limitations and response times given that the Project is well offshore as well outside the 200 nautical mile limit. Depending on the outcomes of the effects analysis, specific detail on key components of the plan will be required in the EIS. The proponent should commit to finalizing the plan in consultation with regulators prior to the application of permits. The proponent should include a discussion on the success rate of different response strategies along with their limitations and probabilities as to how often each strategy can be utilized in a given year at the Project location. The EIS shall include a discussion on the use, availability (including nearest location), timing (testing and mobilizing) and feasibility of a capping stack to stop a blowout and resultant spills. If dispersants are to be used, the proponent shall provide a plan for their use and consider associated environmental effects in the EIS (e.g. effects on marine life and other resource users). The environmental effects of other measures outlined in the emergency response plan should also be considered (e.g. effects from in-situ burning). The EIS shall include the means by which design and/or operational procedures, including follow-up measures, will be implemented to mitigate significant adverse effects from malfunctions and accidental events.</p>	<p>Section 16.1.2; Appendix Q</p>
<p>The potential to encounter shallow gas pockets during drilling, and associated implications, should also be discussed.</p>	<p>Section 2.6.5</p>
<p>The EIS should also consider effects of accidents in the near-shore environment (e.g. spills and ship groundings, as applicable) and of spills reaching shore; including effects on species at risk and their critical habitat, colonial nesters and concentrations of birds, and their habitat. The proponent will also demonstrate what long-term actions it would be prepared to undertake to remediate spill-affected lands and waters.</p>	<p>Section 16.4, 16.6, 16.7.3, 16.7.4, 16.7.5, 16.7.7</p>
<p>The EIS should summarize the nature, extent and magnitude of spills, and accidental releases related to existing production installations and past production drilling projects in the Newfoundland and Labrador offshore. Comparisons with similar settings would also be meaningful for deep water drilling.</p>	<p>Section 16.3.1</p>

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Bay du Nord Development Project EIS Guidelines	EIS Reference
7.6.2. Effects of the environment on the project	
<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. hurricanes, icing, icebergs, seismic events, and submarine landslide potential), could adversely affect the project and how this in turn could result in adverse environmental effects (e.g. extreme environmental conditions result in malfunctions and accidental events) with consideration of predicted climate change effects. These events will be considered in different probability patterns (e.g. 5- year event vs. 100-year event) under a range of future climatic states. The potential impact of climate change will be considered over the lifetime of the Project and the discussion will include a description of the climate data and projections used.</p>	Section 17.2, 17.3, 17.4
<p>The EIS will provide details of planning, design and construction strategies intended to minimize the potential environmental effects of the environment on the project.</p>	Section 17.1
7.6.3. Cumulative effects assessment	
<p>The proponent will identify and assess the project's cumulative effects using the approach described in the Agency's guidance documents related to cumulative environmental effects.</p>	Section 15.1
<p>Cumulative effects are those that are likely to result from the designated project in combination with other physical activities that have been or will be carried out. Cumulative effects may result if:</p> <ul style="list-style-type: none"> • the implementation of the project may cause direct residual adverse effects on the VC, taking into account the application of technically and economically feasible mitigation measures; and, • the same VC may be affected by other past, present and future physical activities. <p>VCS that would not be affected by the project or would be affected positively by the project can be omitted from the cumulative effects assessment. A cumulative effect on an environmental component may, however, be important even if the assessment of the project's effects on this component reveals that the effects of the project are minor. Effects do not have to overlap in space or time to cumulatively affect a VC.</p>	Section 15.1
<p>In its EIS, the proponent will:</p> <ul style="list-style-type: none"> • Identify and provide a rationale for the VCs that will constitute the focus of the cumulative effects assessment, focussing the cumulative effects assessment on the VCs most likely to be affected by the project and other project and activities. To this end, the proponent must consider, without limiting itself thereto, the following components likely to be affected by the project: 	Section 15.1.1

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<ul style="list-style-type: none"> ✓ fish and fish habitat, including salmon and all other valued species, ✓ migratory birds, ✓ marine mammals ✓ marine turtles, ✓ species at risk, ✓ marine plants, ✓ special areas, ✓ commercial fisheries, ✓ Indigenous peoples, ✓ air quality and greenhouse gases, and ✓ human environment. 	Section 15.1.1
<ul style="list-style-type: none"> • 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 each VC considered. These cumulative effects boundaries will also generally be larger than the boundaries for the corresponding project effects. 	Section 15.1.2
<ul style="list-style-type: none"> • 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. 	Section 15.1.3
<ul style="list-style-type: none"> • Assess the cumulative effects on each VC selected by comparing the future scenario with the project and without the project. Effects of past activities (activities that have been carried out) will be used to contextualize the current state of the VC. In assessing the cumulative effects on current use of lands and resources for traditional purposes, the assessment will focus on the cumulative effects on the relevant activity (e.g. fishing). 	Section 15.2 to 15.7
<ul style="list-style-type: none"> • Describe the mitigation measures that are technically and 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 will identify these effects and the parties that have the authority to act. In such cases, the EIS will summarize the discussions that took place with the other parties in order to implement the necessary measures over the long term. 	Section 15.1.5
<ul style="list-style-type: none"> • Determine the significance of the cumulative effects; and 	Section 15.2.6, 15.3.6, 15.4.6, 15.5.5, 15.6.5, 15.7.5

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none"> 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. 	Section 15.9
The proponent is encouraged to consult with key stakeholders and Indigenous groups prior to finalizing the choice of VCs and the appropriate boundaries to assess cumulative effects.	Section 4.2, 4.3, 4.4
8. SUMMARY OF ENVIRONMENTAL EFFECTS ASSESSMENT	
The EIS will contain a table summarizing the following key information:	
<ul style="list-style-type: none"> the potential environmental effects on valued components; 	Section 18.1
<ul style="list-style-type: none"> the proposed mitigation measures to address the effects identified above; and 	Section 18.2
<ul style="list-style-type: none"> the potential residual effects and the significance of the residual environmental effects. 	Section 18.3
The summary table will be used in the EA Report prepared by the Agency or will be considered by the review panel. An example of a format for the key summary table is provided in Appendix 1 of this document.	Section 18.3, 18.5
In a second table, the EIS will list all key mitigation and follow-up measures and commitments made by the proponent which will more specifically mitigate any significant adverse effects of the project on VCs (i.e. those measures that are essential to ensure that the project will not result in significant adverse environmental effects).	Section 18.2
9. FOLLOW-UP AND MONITORING PROGRAMS	
<p>A follow-up program is designed to verify the accuracy of the effects assessment and to determine the effectiveness of the measures implemented to mitigate the adverse effects of the project. Considerations for developing a follow-up program include:</p> <ul style="list-style-type: none"> whether the project will impact environmentally sensitive areas, or protected areas or areas under consideration for protection; the nature of Indigenous and public concerns raised about the project; suggestions from Indigenous groups regarding the design of and involvement in follow-up and monitoring programs; incorporation of Indigenous knowledge, where available; the accuracy of predictions; uncertainty about the effectiveness of mitigation measures, such as may be that case if using new or unproven techniques and technology, or there are knowledge gaps (e.g. lack of baseline data) in understanding the receiving environment; the nature of cumulative environmental effects; the nature, scale, and complexity of the program; and whether there was limited scientific knowledge about the effects in the EA. 	Section 18.4

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Bay du Nord Development Project EIS Guidelines	EIS Reference
The goal of a monitoring program is to ensure that proper measures and controls are in place in order to decrease the potential for environmental degradation during all phases of project development, and to provide clearly defined action plans and emergency response procedures to account for human and environmental health and safety. The proponent should consider the need for adaptive management, considering that the area is relatively unknown.	Section 18.4
9.1. Follow-up program	
The duration of the follow-up program shall be as long as required to evaluate the effectiveness of the mitigation measures and to verify effects predictions.	Section 18.4.1
<p>The EIS shall present a preliminary follow-up program and 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 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; • accessibility and sharing of data for the general population; • opportunity for the proponent to include the participation of Indigenous groups and stakeholders on the affected territory, during the development and implementation of the program; and • involvement of local and regional organizations in the design and implementation of the program and evaluation of the follow-up results as well as any updates, including a communication mechanism between these organizations and the proponent. 	Section 18.4.1
The discussion of follow-up and monitoring programs relative to the proposed drilling program should include a summary of the design and findings of monitoring programs that have been undertaken for previously assessed and completed offshore drilling programs in similar environments and how these will be factored into follow-up and monitoring for the Project.	Section 18.4.1
9.2. Monitoring	
The proponent will prepare an environmental monitoring program for all phases of the project.	Section 18.4.2
<p>Specifically, the EIS shall present an outline of the preliminary environmental monitoring program, including the:</p> <ul style="list-style-type: none"> • identification of the interventions that pose risks to one or more of the environmental and/or VCs and the measures and means planned to protect the environment; 	Section 18.4.2
<ul style="list-style-type: none"> • identification of regulatory instruments that include a monitoring program requirement for the VCs; 	Section 18.4.2
<ul style="list-style-type: none"> • 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); 	Section 18.4.2

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Bay du Nord Development Project EIS Guidelines	EIS Reference
<ul style="list-style-type: none">• 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;	Section 18.4.2
<ul style="list-style-type: none">• guidelines for preparing monitoring reports (number, content, frequency, format) that will be sent to the authorities concerned; and	Section 18.4.2
<ul style="list-style-type: none">• plans to engage Indigenous groups in monitoring, where appropriate.	Section 18.4.2