TABLE OF CONCORDANCE

The table of concordance, provided below, summarizes all the requirements for content and methodological approaches of the approved Application Information Requirements and indicates where these are located in the Application.

Table 1: Table of Concordance between Approved Application Information Requirements and the Application

41D 0 - 11			Application Reference	
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
Table of Concordance				
Table of Concordance	A table, in the format of Table 1, will summarize the concordance between the information requirements identified in the approved AIR and the Application.	Overview	Table of Concordance	ix
Acronyms and Abbrev	riations			
Acronyms and Abbreviations	A list of acronyms and abbreviations used in the Application will be provided.	Overview	Acronyms and Abbreviations	cvii
Glossary of Technical	Terms			
Glossary of Technical Terms	A list of technical terms used in the Application will be provided.	Overview	Glossary	cxxxviii
Authorship				·
Authorship	The Application will include a list of parties involved in the preparation of the Application, their qualifications, and the section(s) for which they were responsible.	Overview	Authorship	cxxxix
Executive Summary				
Executive Summary	The Executive Summary will provide an overview of the Application and will	Overview	ES1 Introduction	ES-1
	include the following information:	Overview ES2 Project Overview	ES2 Project Overview	ES-2
	 A brief description of the proposed Project including its scope, alternatives considered, land use, potential benefits, and applicable authorizations 			
	 A statement indicating whether the Proponent is applying for concurrent permitting 	Overview	ES2 Project Overview	ES-2

AID Ocation			Application Reference	
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	 A brief overview of the assessment process, including Project reviewability and the pre-application and application review stages of the environmental assessment 	Overview	ES3 Assessment Process	ES-14
	A summary of consultations undertaken during the environmental	Overview	ES3.3 Environmental Assessment Participants	ES-16
	assessment including with the working groups, Aboriginal Groups, and the public	Overview	ES3 Assessment Process ES3.3 Environmental Assessment Participants ES13 Aboriginal Groups Information Requirements Background ES18 Summary of Public Consultation ES4 Assessment Methods ES5 Assessment of Potential Environmental Effects ES6 Assessment of Potential Economic Effects ES7 Assessment of Potential Social Effects ES8 Assessment of Potential Heritage Effects ES9 Assessment of Potential Health Effects ES12 Summary of Proposed Environmental and Operational Management Plans ES19 Summary of Project Residual Effects ES20 Summary of Mitigation Measures ES14 Aboriginal Interests ES15 Statutory Requirements under CEAA 2012 Section 5(1)(c) ES16 Other Matters of Concern to Aboriginal	ES-47
		Overview		ES-55
	 A summary discussion of Valued Components, including the Proponent's 	Overview	ES4 Assessment Methods	ES-17
	conclusions on key potential effects, mitigation measures, residual effects, residual cumulative effects, and the significance of residual effects	Effects	ES-23	
		Overview	ES6 Assessment of Potential Economic Effects	ES-34
		Overview	ES7 Assessment of Potential Social Effects	ES-36
		Overview	ES8 Assessment of Potential Heritage Effects	ES-42
		Overview	ES9 Assessment of Potential Health Effects	ES-43
		Overview		ES-46
		Overview	ES19 Summary of Project Residual Effects	ES-55
		Overview	ES20 Summary of Mitigation Measures	ES-56
	A summary of potential effects on Aboriginal rights including title	Overview	ES14 Aboriginal Interests	ES-48
	(Aboriginal Interests)	Overview		ES-50
		Overview	ES16 Other Matters of Concern to Aboriginal Groups	ES-53
	 A summary of compliance monitoring and follow-up programs proposed, if applicable, and 	Overview	ES21 Summary of Follow-Up Programs and Compliance Reporting	ES-56
	Proponent conclusions resulting from the environmental assessment.	Overview	ES22 Conclusion	ES-57

AID Cootion	Beautistics of Beautismants of Belavant Continuous Continuous		Application Reference	
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
PART A – INTRODUC	TION AND BACKGROUND			·
1 Purpose of the A	pplication			
Purpose of the Application	The Application will provide the British Columbia Environmental Assessment Office (EAO) with sufficient information to prepare its Assessment Report for the LNG Canada Export Terminal (the proposed Project) for the provincial and federal Ministers to make decisions pursuant to the <i>British Columbia Environmental Assessment Act</i> (BCEAA) and <i>Canadian Environmental Assessment Act</i> , 2012 (CEAA 2012).	Part A	1.0 Purpose of the Application	1-1
	In this section of the Application, LNG Canada Development Inc. (LNG Canada) will confirm that the Application meets the criteria specified in this Application Information Requirements (AIR) document.	Part A	1.0 Purpose of the Application	1-1
2 Project Overview	1			
2.1 Proponent Descr	ription			
2.1 Proponent Description	This section of the Application will describe the Proponent, including its management team and contacts, corporate history, environmental policies, and organizational structure.	Part A	2.1 Proponent Description	2-1
2.2 Description of Pr	oposed Project			
2.2.1 Provincial and Federal Scope	This section of the Application will describe the provincial and federal scope of the proposed Project.	Part A	2.2.1 Provincial and Federal Scope	2-3
2.2.2 Technical	This section of the Application will provide an overview of the proposed	Part A	2.2.2 Purpose of the Project	2-3
Project Information	Project with a focus on the main features of the LNG facility, including the marine terminal, and associated shipping activities, and details on Project	Part A	2.2.5 Project Components	2-7
	phases (i.e., construction, operation, and decommissioning).	Part A	2.2.6 Project Activities	2-26
	The technical information section of the Application will provide the following details on the proposed Project:	Part A	2.2.2 Purpose of the Project	2-3
	 The purpose of the proposed Project, including a description of how objectives are related or contribute to broader private or public sector policies, plans, or programs, if relevant 			
	 The location of the proposed Project within a provincial, regional and local context, including maps. Coordinates of the LNG facility and marine terminal will be provided in WGS-84 and UTM coordinate systems 	Part A	2.2.3 Project Location	2-4

AIR Section	Description of Dequirements of Belevant Section and Subsection	Application Reference			
AIN Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	Information on the distances from the proposed Project to the following locations (written and on maps):	Part A	2.2.3 Project Location	2-4	
	the service centre of Kitimat				
	residential areas of Kitimat				
	Kitamaat Village				
	■ Terrace				
	 the communities of Hartley Bay and Kitkatla and First Nation reserves along the marine access route 				
	A description of the relevant history of the proposed Project	Part A	2.2.4 Project History	2-6	
	A description of the following onsite and offsite infrastructure and facilities,	Part A	2.2.5 Project Components	2-7	
	including figures of:	Part A	2.2.5.1 LNG Facility Layout	2-9	
	the LNG processing and storage site the graphical terminal.	Part A	2.2.5.2 LNG Processing and Storage	2-12	
	 the marine terminal supporting infrastructure and facilities (including onsite power generation, 	Part A	2.2.5.3 LNG Loading	2-17	
	if applicable)	Part A	2.2.5.4 Permanent Support Facilities	2-17	
	 temporary infrastructure and facilities 	Part A	2.2.5.5 Waste Management	2-18	
	 operation of LNG carriers and other supporting marine traffic between Kitimat Harbour Terminal and the pilot boarding location at or near Triple 	Part A	2.2.5.6 Power Supply	2-20	
	Island	Part A	2.2.5.7 Water Supply System	2-20	
		Part A	2.2.5.8 Temporary Infrastructure and Facilities	2-21	
		Part A	2.2.5.9 Marine Terminal	2-23	
		Part A	2.2.5.10 Shipping	2-26	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	A description of the following construction activities, including relevant figures,	Part A	2.2.6 Project Activities	2-26
	duration, and scheduling:	Part A	2.2.6.1 Construction	2-27
	site preparation (land-based and marine)			
	onshore construction			
	dredging			
	marine construction			
	 waste management 			
	 regional vehicle and rail traffic to/from the facility site 			
	shipping			
	 commissioning and start-up 			
	A description of the following operational activities, including duration and	Part A	2.2.6 Project Activities	2-26
	scheduling:	Part A	2.2.6.2 Operation	2-32
	 natural gas treatment and natural gas liquids extraction 		· ·	
	 LNG production 			
	LNG loading			
	 LNG shipping 			
	 waste management 			
	 transportation of dangerous goods 			
	A conceptual discussion of decommissioning and abandonment activities,	Part A	2.2.6. Project Activities	2-26
	based on current requirements for:	Part A	2.2.6.3 Decommissioning	2-35
	 dismantling of land-based and marine infrastructure 			
	 remediation and reclamation of the site 			
	waste management			
	 post-closure monitoring and follow-up 			

AID Oction			Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	An overview of environmental mitigation measures that were incorporated into	Part A	2.2.7 Design Mitigation	2-35	
	the proposed Project planning and the benefits of these changes, including measures related to:	Part A	2.2.7.1 Site Selection	2-36	
	site selection	Part A	2.2.7.2 Engineering Design Features	2-36	
	 engineering design features 	Part A	2.2.7.3 Changes Based on Feedback	2-37	
	 feedback obtained from government agencies, Aboriginal Groups, stakeholders, and the general public. For the purposes of the AIR and the Application, Aboriginal Groups are those groups included in the section 11 Order (Schedules B, C and D), namely: 				
	Haisla Nation				
	Gitga'at First Nation				
	Gitxaala Nation Kitaalaa Firat Nation				
	Kitselas First NationKitsumkalum First Nation				
	Lax Kw'alaams First Nation, and				
	Metlakatla First Nation, and				
	Métis Nation British Columbia				
	A description of the capital construction phase and the lifetime of the proposed Project in years, and	Part A	2.2.8 Capital Costs and Employment	2-39	
	A summary of the environmental management system and adaptive management approach for the proposed Project.	Part A	2.2.9 Environmental Management	2-39	
2.3 Alternative Mean	s of Undertaking the Proposed Project				
2.3 Alternative Means	This section of the Application will describe each alternative considered and	Part A	2.3 Alternative Means of Undertaking the Project	2-40	
of Undertaking the Proposed Project	criteria used to evaluate each alternative, as will the rationale for selecting the preferred alternative.	Part A	2.3.1 Marine Access Route	2-40	
		Part A	Circulation System	2-42	
		Part A		2-44	
		Part A	2.3.4 Disposal of Marine Sediment	2-45	
		Part A	2.3.5 Workforce Accommodation Centre Location(s)	2-48	

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
AIN Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
2.4 Land and Marine	Use			
2.4 Land and Marine Use	This section of the Application will provide: A description of the land ownership and land use regime including licences or other authorizations that would potentially be required for or affected by the proposed Project	Part A	2.4 Land and Marine Use	2-55
	 A report on the status of consultation with private landowners on resolving issues with tenure and permit holders 	Part A	2.4 Land and Marine Use	2-55
	 Zoning and the associated management objectives for lands affected by the proposed Project based on the zoning in the Kitimat Municipal Code and the District of Kitimat's OCP 	Part A	2.4 Land and Marine Use	2-55
	A summary of the following relevant government plans will be provided including more where relevant:	Part A	2.4.1 Land Use	2-55
	including maps where relevant: Kalum Land and Resource Management Plan District of Kitimat's Official Community Plan Kitimat Municipal Code, Part 9 – Planning Pacific North Coast Integrated Management Area Liquefied Natural Gas: A Strategy for BC's Newest Industry Marine Planning Partnership for the North Coast	Part A	2.4.2 Marine Use	2-57
	A description of existing and proposed management and monitoring	Part A	2.4.1 Land Use	2-55
	programs or regional studies	Part A	2.4.2 Marine Use	2-57
	A summary of land and marine use plans as made available to LNG	Part A	2.4.1 Land Use	2-55
	Canada during the environmental assessment process	Part A	2.4.2 Marine Use	2-57
	 Identification of parks, reserves, conservancies, and management areas, if any, potentially affected by the proposed Project 	Part A	2.4.3 Parks and Protected Areas	2-59
	 Identification of other developments and/or land uses (e.g., recreational areas), even if not directly related to the proposed Project, that might result in overlapping effects with the proposed Project, and 	Part A Part A	2.4.1 Land Use 2.4.2 Marine Use	2-55 2-57
	Identification of future developments and/or land uses that are reasonably foreseeable and sufficiently certain to proceed.	Part A	2.4.1 Land Use	2-55

AID Costion	Description of Descriptments of Delevent Section and Subsection		Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
2.5 Benefits of Prop	osed Project				
2.5 Benefits of	This section of the Application will include the following information:	Part A	2.5.1 Introduction	2-61	
Proposed Project	 A summary of initial capital construction cost estimates, indication of the potential for use of local facilities, and indication if local facilities are currently underutilized 	Part A	2.5.3 Project Costs	2-63	
	A summary of estimated operating costs over the life of the proposed Project (for land, buildings, and equipment) including:	Part A	2.5.3 Project Costs	2-63	
	 estimated annual operating costs (excluding labour) 				
	 an indication of how costs are measured (i.e., current dollar value or Net Present Value) 				
	 high-level cost estimate for decommissioning, closure, abandonment, and reclamation, and 				
	Employment estimates including:	Part A	2.5.4 Employment	2-67	
	 direct employment, stated in number of person years, to be created by major job category (e.g., labour, management, business services) during construction and operation, distinguishing among full-time, part-time, and seasonal workers 				
	 wage levels, by major job category, for the construction and operating periods 				
	 breakdown of the number of people that are expected to be hired locally, provincially, nationally, or internationally for the proposed Project 				
	 potential for LNG Canada to use local human resources that are currently underutilized 				
	 relevant employment policies and practices 				
	 indirect employment for the construction and operation phases of the proposed Project including any assumptions relating to industry specific multipliers or other multipliers used. 				
	Results from the British Columbia Input Output model (BCIOM) and Statistics Canada Interprovincial Input-Output model will be considered in estimates of direct, indirect and induced economic benefits.	Part A	2.5.3 Project Costs	2-63	

AID Continu	Description of Descriptions of Delevent Section and Subsection		Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	LNG Canada is committed to bringing benefits to local communities by	Part A	2.5.3 Project Costs	2-63	
	creating jobs and investment and will contribute to employment creation and business development both directly and indirectly. It is the Proponent's intention to build capacity and workforce development through the construction and operation phases of the proposed Project.	Part A	2.5.4 Employment	2-67	
	This section of the Application will provide summary information on these efforts and also provide information, where available, on:				
	 Contractor supply services including: 				
	 summary list of the major types of businesses/contractors, broken down at the local, provincial, and national level, that would benefit from the proposed Project 				
	 estimated value of supply of service contracts expected for both the construction and operation phases of the proposed Project 				
	Information about LNG Canada's local purchasing strategy, if any				
	 Estimate of annual government revenues for the construction and operation phases of the proposed Project including: 	Part A	2.5.5 Government Revenue	2-79	
	local/municipal (property taxes, other)				
	regional district (taxes, other)				
	 provincial (income tax, sales tax, lease, licence and tenure, royalties, other) 				
	 federal (income tax, sales tax, payroll taxes, other) 				
	 Assumptions and reference information sources for the above information, and 	Part A	2.5.2 Methods	2-61	
	Contributions of the proposed Project to community development.	Part A	2.5.9 Contributions by LNG Canada to Community Development	2-86	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
2.6 Applicable Aut	thorizations				
2.6 Applicable Authorizations	This section of the Application will provide an overview of the OGAA regulatory framework, how it is managed by the OGC, and its relationship to the proposed Project.	Part A	2.6.1 Provincial Permits and Approvals	2-87	
	The Application will also present a list of all applicable federal, provincial, and	Part A	2.6.2 Federal Permits and Approvals	2-88	
	municipal licences, permits, authorizations and/or approvals required for the construction and operation of the proposed Project, including shipping activities, and identify the associated responsible regulatory body.	Part A	2.6.3 Municipal Permits and Approvals	2-88	
	Further, the type of permitting options considered (i.e., concurrent and synchronous) will be discussed and the Application will state whether a request for concurrent permitting will be submitted under the Concurrent Approval Regulation pursuant to BCEAA. If concurrent permitting is pursued, the reason for this decision will be provided and the regulatory instruments that will be requested for concurrent review will be identified.	Part A	2.6.1 Provincial Permits and Approvals	2-87	
3 Assessment P	rocess				
3 Assessment Process	 This section of the Application will include: A brief description of the assessment process under BCEAA, including the role of the AIR in the pre-application stage and the Assessment Report that will be prepared by EAO for the federal and provincial Ministers 	Part A	3.1.1 Overview of the Provincial Assessment and Substitution Process	3-1	
	 A statement that the proposed Project is subject to review under BCEAA and CEAA 2012 and a description of the relevant provincial and federal triggers 	Part A	3.1 Regulatory Framework	3-1	
	 A statement that the federal Minister of the Environment has granted substitution to the EAO for the environmental assessment required under CEAA 2012, a description of the conditions for the substitution process, and a summary of how CEAA 2012 requirements have been fulfilled 	Part A	3.1.3 Federal Framework	3-3	
	 A statement indicating that the Application has been developed pursuant to the approved AIR and complies with requirements of the section 11 Order, and 	Part A	3.1.4 Summary of Pre-Application Stage	3-7	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	A list of applicable federal and provincial milestones, including (but not limited to) the federal granting of substitution under CEAA 2012, issuance of section 10, 11, and 13 Orders, meetings of the Working Groups, and the public comment period on the draft AIR.	Part A	3.1.4 Summary of Pre-Application Stage	3-7
3.1 Environmental As	ssessment Participants			
3.1 Environmental Assessment Participants	This section of the Application will include: A list of the federal and provincial government agencies, local government bodies and Aboriginal Groups, as identified in schedules B and C of the section 11 Order, that were invited to be a part of EAO's working groups.	Part A	3.2 Environmental Assessment Participants – Working Groups	3-8
	 A summary of how consultation was undertaken with the Working Groups in the preparation of the AIR and Application, in accordance with section 12 of the section 11 Order 	Part A	3.2 Environmental Assessment Participants – Working Groups	3-8
	A summary of the key issues and concerns raised by members of the Working Groups during the preparation of the AIR and the Application, how those issues were addressed, and the degree to which they were addressed	Part A	3.2 Environmental Assessment Participants – Working Groups	3-8
	 A link to the Working Group Issues Tracking Table on the EAO website, and 	Part A	3.2 Environmental Assessment Participants – Working Groups	3-8
	 A summary of the proposed approaches for consulting Working Groups during the Application review and for resolving outstanding issues. 	Part A	3.2 Environmental Assessment Participants – Working Groups	3-8
PART B - ASSESSME	NT OF POTENTIAL EFFECTS, MITIGATION, AND SIGNIFICANCE OF RESIDU	AL EFFECTS		·
4 Assessment Met	nods			_
4 Assessment Methods	This section of the Application will describe the assessment methods that will be used to prepare the Application.	Part B	4 Assessment Methods	4-1
	The Application will outline the steps in the effects assessment (Figure 4-1)	Part B	4 Assessment Methods	4-1
	 including: identification of key issues and associated valued components (VCs) that are relevant to the proposed Project and the assessment, and that reflect the environmental effects to be considered as identified in section 5 of CEAA 2012 		4.1 Valued Components	4-3

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	2. establishment of assessment boundaries for each VC (spatial, temporal,	Part B	4.2 Assessment Boundaries	4-17	
	technical, and administrative)		4.2.1 Spatial Boundaries	4-17	
			4.2.2 Temporal Boundaries	4-18	
			4.2.3 Administrative and Technical Boundaries	4-18	
	3. scope of assessment, including: a. regulatory/policy setting b. key issues c. measurable parameters and significance thresholds d. information limitations e. traditional knowledge (TK) and traditional use (TU) information considered f. role of consultation in the assessment	Part B	4 Assessment Methods	4-1	
	baseline conditions in the local and regional study areas based on existing information, TK and TU information, and data collected for the proposed Project	Part B	4.3 Description of Baseline Conditions	4-19	
	5. assessment of Project-specific effects including:	Part B	4.4 Assessment of Project-Specific Effects	4-19	
	a. identification of interactions between the proposed Project and VCs		4.4.1 Identification of Project-VC Interactions	4-19	
	 b. potential effects that include the environmental effects identified in sections 5 (1)(a) and (b) and 5(2) of CEAA 2012 		4.4.2 Description of Project Effect Mechanisms	4-25	
	c. mitigation of potential effects		4.4.3 Mitigation of Potential Effects	4-25	
	d. characterization of predicted residual effects		4.4.4 Characterization of Residual Effects	4-25	
	e. description of the likelihood of predicted residual effects		4.4.5 Likelihood of Residual Effects	4-26	
	f. significance of predicted residual effects g. discussion of the predicted confidence and risk (as per 4.4.7)		4.4.6 Determination of Significance for Residual Effects	4-27	
			4.4.7. Confidence and Risk	4-27	
			4.4.8 Residual Effects Summary	4-27	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	6. assessment of cumulative effects, which involves:	Part B	4.5 Cumulative Effects	4-28	
	identifying past, present, and reasonably foreseeable projects or activities that would likely interact in a cumulative fashion with		4.5.1 Project and Activities Inclusion List	4-29	
	predicted residual proposed Project effects		Table 4.5-1 Project and Activities Inclusion List	4-29	
	b. establishing the context for cumulative effects		4.5.2 Cumulative Effects Assessment	4-33	
	 determining the potential for the proposed Project to interact with other projects and activities 		4.5.2.1 Stage 1, -Cumulative Effects Context	4-33	
	d. determining the significance of the proposed Project's predicted contribution to cumulative effects, where necessary, that will include		4.5.2.2. Stage 2, -Determination of Potential Cumulative Interactions	4-33	
	the following steps: description of cumulative effects mitigation of cumulative effects		4.5.2.3 Stage 3, -Determining Significance of Cumulative Effects	4-34	
			4.5.2.3.2 Mitigation of Cumulative Effects	4-34	
	 characterization of predicted cumulative effects likelihood of cumulative residual effects 		4.5.2.3.3 Characterization of Cumulative Effects	4-35	
	 significance determination 		4.5.2.3.4 Likelihood of Cumulative Effects	4-35	
	 confidence and risk assessment, and 		4.5.2.3.5 Determination of Significance for Cumulative Effects	4-35	
			4.5.2.3.6 Confidence and Risk	4-35	
			4.5.2.4 Summary of Cumulative Effects	4-35	
	7. follow-up programs and compliance monitoring.	Part B	4.6 Follow-up Program and Compliance Monitoring	4-36	
4.1 Valued Compone	nts				
4.1 Valued Components	This section of the Application will describe the process for selecting candidate VCs for assessment, briefly described herein. VCs and the rationale for their inclusion or exclusion in Part B of the assessment for the proposed Project are listed in Table 4.1 1.	Part B	4.1 Valued Components	4-3	
	·	Part B	4.1 Valued Components	4-3	

AIR Section	Description of Requirements of Relevant Section and Subsection			
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4.2 Assessment Bou	ndaries			
4.2.1 Spatial Boundaries	This section of the Application will describe the spatial boundaries and the rationale for their selection in detail for each VC. Should boundaries change, a rationale will be provided in the Application.	Part B	4.2.1 Spatial Boundaries	4-17
4.2.2 Temporal Boundaries	This section of the Application will describe the rationale for selecting temporal boundaries for each VC based on the phases of the proposed Project. The Application will also describe any annual or seasonal variability in temporal effects on VCs, as appropriate.	Part B	4.2.2 Temporal Boundaries	4-18
4.2.3 Administrative and Technical Boundaries	Where relevant, the Application will identify the administrative and technical boundaries for the VCs. Administrative boundaries might include specific aspects of provincial and federal regulatory requirements, as well as regional planning initiatives that are relevant to the assessment of the proposed Project's effects on a specific VC.	Part B	4.2.3 Administrative and Technical Boundaries	4-18
4.3 Description of Ba	aseline Conditions			
4.3 Description of Baseline Conditions	This section of the Application will describe baseline conditions for each VC (and associated subcomponents when applicable) in sufficient detail to enable potential Project-VC interactions to be identified, understood, and assessed. Baseline conditions will focus on information required to address measureable parameters defined for the VC. Key elements of the approach to describing baseline conditions include:	Part B	4.3 Description of Baseline Conditions	4-19
	 appending and/or referencing existing reports and documents as appropriate 			
	 collecting, analyzing, and presenting data following appropriate provincial or federal standards (e.g., Resource Information Standards Committee) 			
	 providing rationale for the selection of sampling sites and analytical parameters as appropriate 			
	 discussing the quality and reliability of these data sources and how they are used to support the assessment 			
	 incorporating available TK into the Application, in addition to information collected through field studies, surveys, and other research methods 			
	 describing field and laboratory methods, along with any quality assurance and quality control measures applied, and 			
	 describing any modelling exercises and limitations of modelling 			

AIR Section	Description of Requirements of Relevant Section and Subsection	Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
4.3.1 Standards and	Table 4.3 1 lists the standards and guidance that will be used for the	Part B	5.2.3 Baseline Conditions (Air Quality)	5.2-12
Guidelines for Baseline Conditions	description of baseline conditions for each VC.	Part B	5.3.3 Baseline Conditions (Greenhouse Gas Management)	5.3-11
		Part B	5.4.3 Baseline Conditions (Acoustic Environment)	5.4-12
		Part B	5.5.3 Baseline Conditions (Vegetation Resources)	5.5-16
		Part B	5.6.3 Baseline Conditions (Wildlife Resources)	5.6-18
		Part B	5.7.3 Baseline Conditions (Freshwater and Estuarine Fish and Fish Habitat)	5.7-21
			5.8-22	
		Part B		5.9-8
4.4 Assessment of P	roject-Specific Effects			
4.4.1 Identification of Project-VC Interactions	This section of the Application will identify interactions of concern between the proposed Project activities and each of the selected VCs. Checkmarks will be placed in a Project-VC interaction matrix, such as Table 4.4.1, to indicate interactions of potential concern between each selected VC and Project activities. The interaction table also lists past, present, and other reasonably foreseeable future activities, and indicates for each VC which of these activities may act cumulatively on it.	Part B	4.4.1 Identification of Project-VC Interactions	4-19
	Project interactions with VCs will be assessed in the Application's VC sections. A Project-effects interaction table for each VC, such as Table 4.4-2, will indicate the interactions that will potentially result in the effects being assessed. The extent of the assessment warranted for each interaction is determined by a consideration of the severity of the resulting potential effect, the level of understanding and acceptance of proposed mitigations, and the level of concern of regulators, the public, and Aboriginal Groups. Further review of the interactions may reveal that some are unlikely to result in a significant adverse residual effect while others will require a more extensive assessment.	Part B	4.4.1 Identification of Project-VC Interactions	4-19

AIR Section	Description of Requirements of Relevant Section and Subsection	Application Reference			
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	The assessment of Project-specific effects will include the assessment of environmental effects as defined in sections 5(1) (a) and (b) and section 5(2) of CEAA 2012. The Application will provide sufficient information for a conclusion to be reached on the significance of any residual adverse effect.	Part B	4.4.1 Identification of Project-VC Interactions	4-19	
4.4.2 Description of Project Effects Mechanism	For each VC, this section of the Application will describe mechanisms by which specific Project activities and actions are anticipated to result in environmental, economic, social, heritage, or health effects. Where possible, the spatial and temporal extent of these anticipated effects (i.e., where and when an effect might occur) will also be described.	Part B	4.4.2 Description of Project Effect Mechanisms	4-25	
4.4.3 Mitigation of Project Effects	Mitigation measures that will reduce or eliminate an adverse environmental, economic, social, heritage, or health effect will be described in each assessment chapter in the Application, with an emphasis on how these measures will help alter or minimize the effect. Where possible, information will be provided on the anticipated time required for mitigation measures to become effective, and the effectiveness of the proposed mitigation measure(s) in terms of the expected change in the measurable parameter(s) for the effect. Mitigation measures might include monitoring to verify results.	Part B	4.4.3 Mitigation of Potential Effects	4-25	
	A description of the mitigation measures that have been incorporated into the site selection and design of the proposed Project will be provided in the Project description chapter of the Application; these measures will not be reiterated in the VC assessments.	Part B	4.4.3 Mitigation of Potential Effects	4-25	
	This section of the Application will summarize the process and methodologies used to identify and select mitigation measures to address potential adverse effects of the proposed Project. The Application will also report any views provided by Aboriginal Groups on mitigation measures.	Part B	4.4.3 Mitigation of Potential Effects	4-25	
4.4.4 Characterization of Residual Project Effects	The following criteria will be used in the Application to characterize (describe) the residual adverse effects on the environmental, economic, social, heritage, and health VCs described in Table 4.1 1 of the AIR. Where possible, these criteria will be described quantitatively for each VC. When residual effects cannot be characterized quantitatively, characterization will be completed using qualitative terms (such as the examples below). Definitions will be provided when qualitative terms are used.	Part B	4.4.4 Characterization of Residual Effects	4-25	
	 Magnitude—the expected size or severity of effect. Low magnitude effects may have negligible to little effect, while high magnitude effects may have a substantial effect. 	Part B	4.4.4 Characterization of Residual Effects	4-25	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	 Geographical Extent—the spatial scale over which the residual effects of the Project are expected to occur. The geographic extent of effects can be local or regional. Local effects may have a lower effect than regional effects. 	Part B	4.4.4 Characterization of Residual Effects	4-25
	 Duration—the length of time the residual effect persists. The duration of an effect can be short term or longer term. 	Part B	4.4.4 Characterization of Residual Effects	4-25
	 Frequency—how often the residual effect occurs. The frequency of an effect can be frequent or infrequent. Short term and/or infrequent effects may have a lower effect than long term and/or infrequent effects. 	Part B	4.4.4 Characterization of Residual Effects	4-25
	 Reversibility—whether or not the residual effect on the VC can be reversed once the physical work or activity causing the disturbance ceases. Effects can be reversible or permanent. Reversible effects may have lower effect than irreversible or permanent effects. 	Part B	4.4.4 Characterization of Residual Effects	4-25
	Context—refers primarily to the sensitivity and resilience of the VC. Context draws heavily on an understanding of existing conditions, which reflect cumulative effects of other projects and activities that have been carried out, and information about the impact of natural and human- caused trends on the condition of the VC. Project effects may have a higher effect if they occur in areas or regions that:	Part B	4.4.4 Characterization of Residual Effects	4-25
	 have already been adversely affected by human activities (i.e., disturbed or undisturbed) 			
	 are ecologically fragile and have little resilience to imposed stresses (i.e., fragile). 			
4.4.5 Likelihood of Residual Project Effects	Likelihood refers to whether or not a residual effect is likely to occur. The probability of a residual adverse effect occurring and rationale for this determination are presented in table form.	Part B	4.4.5 Likelihood of Residual Effects	4-26
4.4.6 Determination of Significance of Residual Effects	This section of the Application will discuss the potential significance of any residual effects for all of the VCs included in the assessment.	Part B	4.4.6 Determination of Significance for Residual Effects	4-27

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
4.4.7 Confidence and Risk	The determination of significance will also include a discussion of the "prediction confidence" based on:	Part B	4.4.7 Confidence and Risk	4-27
	 scientific certainty relative to qualifying or estimating the effect, including the quality and/or quantity of data and the understanding of the effect mechanisms 			
	 scientific certainty relative to the effectiveness of the proposed mitigation measures, and 			
	 professional judgement from prior experience including proven mitigation measures. 			
4.4.8 Residual Project Effects and Significance	The characterization of residual Project effects for each selected VC will be presented in the Application in a summary table following the format of Table 4.4 3.	Part B	4.4.8 Residual Effects Summary	4-27
4.5 Assessment of Cu	umulative Effects			<u>'</u>
4.5.1 Project and Activities Inclusion List	This section of the Application will assess potential cumulative environmental, economic, health, social, and heritage effects resulting from Project residual effects interacting cumulatively with similar effects of past, present, and future projects and activities. Future projects and activities considered in the cumulative effects assessment will be those that are reasonably foreseeable, including those that: (a) have been publicly announced with a defined project execution period and with sufficient project details that they can be included in the assessment, (b) are currently undergoing an environmental assessment, or (c) are in a permitting process.	Part B	4.5.1 Project and Activities Inclusion List	4-29
	The initial list of projects and activities that will be considered in the cumulative effects assessment is provided in Table 4.5-1. This list will be finalized by March 15, 2014, as per discussions with the EAO. The Application will include a map showing the locations of the activities included in the cumulative effects assessment.	Part B	4.5.1 Project and Activities Inclusion List	4-29
4.5.2 Assessment Boundaries	This section of the Application will identify temporal boundaries for the cumulative effects assessment for each VC using the boundaries established for the Project-specific effects assessment, as appropriate.	Part B	4.2 Assessment Boundaries	4-17

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
4.5.3 Cumulative Effects Assessment	Cumulative effects will be considered for each Project-specific residual effect. The first stage, establishment of context, will for each VC summarize baseline information within the RSA, as well as baseline cumulative effects resulting from other past and present physical works and activities. Reasonably foreseeable future-project effects that may interact cumulatively with the proposed Project's residual effects will also be factored in for establishing an overview of cumulative effects prior to the potential contribution of Project residual effects.	Part B	4.5.2 Cumulative Effects Assessment	4-33
	The second stage, determination of whether the proposed Project effects have the potential to interact with the effects of other projects and activities, proceeds with an analysis of whether the following two conditions are met: The proposed Project results in a demonstrable or measurable residual effect on the VC. The Project provide residual effect on a VC door or in likely to get in a	Part B	4.5.2 Cumulative Effects Assessment	4-33
	 The Project-specific residual effect on a VC does, or is likely to, act in a cumulative fashion with the effects on that VC of other past, existing, or future projects and activities in the area (i.e., there is an overlap of the proposed Project effects with similar effects of other projects and activities). 			
	The third stage of the assessment, determination of significance, proceeds if the potential for the proposed Project to contribute to cumulative effects has been established in the second stage. The assessment will make a determination of significance of the overall cumulative effect resulting from the addition of the proposed Project's residual effect. The assessment will also analyze the proposed Project's contribution to the cumulative effects to provide an understanding of the degree to which the Project may add to the cumulative effects.	Part B	4.5.2 Cumulative Effects Assessment	4-33
	Description of Cumulative Effects	Part B	4.5.2 Cumulative Effects Assessment	4-33
	To support the more extensive assessment that follows, the Application will further describe the mechanisms whereby the adverse residual effects from the proposed Project interact with those from other projects and activities in the RSA for each VC. The spatial and temporal extent of these anticipated changes will also be described and quantified in terms of the degree of change in the measurable parameter(s) (i.e., where and when the interactions between the Project residual effects and the residual effects of other projects and activities are expected to occur).			

AIR Section	Description of Descripements of Delevent Section and Subsection		Application Reference		
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	Mitigation of Cumulative Effects	Part B	4.5.2 Cumulative Effects Assessment	4-33	
	The Application will describe measures available to LNG Canada to reduce any identified potentially adverse Project cumulative effects, including a discussion of how these measures might modify the characteristics of a cumulative effect. Proposed mitigation measures that would require government action or a broader industry approach will also be identified and briefly discussed.				
	Characterization of Residual Cumulative Effects	Part B	4.5.2 Cumulative Effects Assessment	4-33	
	This section of the Application will describe adverse residual cumulative effects, after application of the additional mitigation measures. The residual cumulative effects will be characterized by magnitude, geographic extent, frequency, duration, reversibility, and context to the extent possible. This will be done for both:				
	 the overall cumulative effect (i.e., the effect of all past, present, and reasonably foreseeable projects and activities in combination with the effect of the proposed Project), and 				
	the contribution of the proposed Project to overall cumulative effects.				
	Likelihood of Cumulative Residual Effects	Part B	4.5.2 Cumulative Effects Assessment	4-33	
	This section will describe the probability of an adverse residual cumulative effect occurring.				
	Determination of Significance of Cumulative Effects	Part B	4.5.2 Cumulative Effects Assessment	4-33	
	The Application will include a determination of the significance of cumulative effects using the same standards or thresholds established for the proposed Project effects on VCs. This section of the Application will also present conclusions on the proposed Project's contribution to cumulative effects.				

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	Confidence and Risk	Part B	4.5.2 Cumulative Effects Assessment	4-33
	The determination of significance will also include a discussion of the "prediction confidence" based on:			
	 scientific certainty relative to quantifying or estimating the effect, including the quality and/or quantity of data and the understanding of the effect mechanisms 			
	 scientific certainty relative to the effectiveness of the proposed mitigation measures, and 			
	 professional judgement from prior experience including proven mitigation measures. 			
	Higher confidence in all three variables produces greater confidence in the effect predictions, assessment of significance, and the selection of mitigation measures.			
4.6 Follow-Up Progra	ams and Compliance Monitoring			
4.6 Follow-Up Programs and	This section of the Application will identify and briefly describe any proposed follow-up and compliance monitoring programs to verify the accuracy of the	Part B	4.6 Follow-up Program and Compliance Monitoring	4-36
Compliance Monitoring	environmental assessment predictions. A summary of follow-up programs and compliance monitoring will be provided in Section 21.		21 Summary of Follow-up Programs and Compliance Reporting	21-1
5 Assessment of P	Potential Environmental Effects			
5.1 Environmental B	ackground			
5.1 Environmental Background	This section of the Application will include a description of the existing biophysical environment, including surrounding areas, to provide a general understanding of the area surrounding the proposed Project. More details will be provided in the baseline section of each VC chapter.	Part B	5.1 Environmental Background	5.1-1
5.2 Air Quality				
5.2.1 Introduction	The Application will introduce the air quality assessment, describe the rationale for selecting air quality as a VC, and identify linkages to other sections of the Application.	Part B	5.2.1 Introduction	5.2-1
5.2.2 Scope of Assessment	Scenarios modelled will include Base case (existing regional facilities and their emissions), Project case (Project-related emissions) and Future case (emissions from approved and reasonably foreseeable projects and activities).	Part B	5.2.5.1 Analytical Methods	5.2-19

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference		
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	The assessment will focus on changes to the following:	Part B	5.2.2.4 Selection of Effects	5.2-5	
	 CACs, i.e., SO₂, NO_X, CO, PM_{2.5}, H₂S, and VOC, and 	Part B	5.2.2.5 Selection Measurable Parameters	5.2-5	
	 Acidifying air emissions, i.e., NO₂ and SO₂. 	Part B	5.2.2.4 Selection of Effects	5.2-5	
		Part B	5.2.2.5 Selection of Measurable Parameters	5.2-5	
	Emissions of ozone will also be discussed in this section.	Part B	5.2.2.4 Selection of Effects	5.2-5	
		Part B	5.2.2.5 Selection of Measurable Parameters	5.2-5	
	Abnormal emissions (i.e., flaring) will be assessed in Section 10, Accidents or Malfunctions.	Part B	10.5 Emergency LNG Facility Shutdown	10-26	
	The Application will include a description of legislation, guidelines, BMP, and guidance documents that are relevant to the management of air quality.	Part B	5.2.2.1 Regulatory and Policy Setting	5.2-1	
	The Application will describe how TK and TU information, as obtained through consultation with Aboriginal Groups and other sources, was used in the assessment.	Part B	5.2.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	5.2-4	
5.2.3 Baseline	The Application will provide the following information to characterize current	Part B	5.2.3.2.2 Regional Climate	5.2-14	
Conditions	conditions:	Part B	5.2.3.2.3 Baseline Air Quality, Kitimat	5.2-14	
	regional climate, andbaseline ambient air quality.	Part B	5.2.3.2.4 Baseline Air Quality, North Coast	5.2-15	
	The dispersion model will be described in the Application, including, but not limited to, the following details:	Part B	5.2.5.1 Analytical Methods	5.2-19	
	 existing regional facilities and their emissions 				
	 Project-related emissions 				
	 emissions from approved and reasonably foreseeable projects (refer to Table 4.5-1), and 				
	 dispersion modelling of selected substances of interest for Base, Project, and Future (or cumulative) cases. 				
	The dispersion modelling technical data report will be included with the Application.		Air Quality Technical Data Report		

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
5.2.4 Effects Assessment	The Application will describe the specific approach and methods used to determine the proposed Project effects on air quality, including criteria used	Part B	5.2.5.1.1 Analytical Assessment Techniques (Facility)	5.2-19
	for characterizing Project effects and assessing effects significance. Interactions with potential to result in effects of concern, as indicated in the Project Interaction Table (Table 4.4.1), will be carried forward in this analysis.	Part B	5.2.6.1.1 Analytical Assessment Techniques (Shipping)	5.2-25
	The Application will present an assessment of potential adverse effects of the proposed Project on air quality. Project effects on air quality may occur during	Part B	5.2.5.2 Assessment of Change in Ambient Air Quality in the Kitimat Airshed	5.2-20
	the construction, operation, and decommissioning phases. Table 5.2-1 provides a summary of the potential effects of the proposed Project on air quality that will be included in the assessment, and the measurable	Part B	5.2.6.2 Assessment of Change in Ambient Air Quality along the Marine Access Route	niques 5.2-19 niques 5.2-25 niques 5.2-25 niques 5.2-20 nient Air 5.2-26 non Air 5.2-5 nient Air 5.2-21 nient Air 5.2-26 n Ambient 5.2-21 n Ambient 5.2-26 effects 5.2-25 rom 5.2-28 fects 5.2-28 effor 5.2-24
	parameters that will be used to quantify these effects.	Part B	Table 5.2-3: Potential Project Effects on Air Quality and Measurable Parameters	
	Mitigation measures designed to reduce or avoid predicted effects will be described, and any relevant environmental management plans will be referenced.	Part B	5.2.5.2.2 Mitigation for Change in Ambient Air Quality in the Kitimat Airshed	5.2-21
		Part B	5.2.6.2.2 Mitigation for Change in Ambient Air Quality along the Marine Access Route	5.2-26
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context	Part B	5.2.5.2.3 Characterization of Change in Ambient Air Quality in the Kitimat Airshed	5.2-21
	of the potential effects, as outlined in Section 4.4.4.	Part B	5.2.6.2.3 Characterization of Change in Ambient Air Quality along the Marine Access Route	pient 5.2-26
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	5.2.5.3 Summary of Project Residual Effects from the LNG facility	5.2-25
		Part B	5.2.6.3 Summary of Residual Effects from Shipping	5.2-28
		Part B	5.2.7 Summary of Project Residual Effects	5.2-28
	The significance of residual effects will be determined, as outlined in Section 4.4.6.	Part B	5.2.5.2.4 Determination of Significance for Change in Ambient Air Quality in the Kitimat Airshed	5.2-24
		Part B	5.2.6.2.4 Determination of Significance for Change in Ambient Air Quality along the Marine Access Route	5.2-27

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5.2.5 Cumulative	The Application will identify the past, present, and reasonably foreseeable	Part B	5.2.8.1 Stage 1 - Cumulative Effects Context	5.2-28	
Effects Assessment	future projects that may affect regional air quality. A cumulative effects assessment will include:	Part B	5.2.8.2 Stage 2 - Determination of Potential Cumulative Interactions	5.2-31	
	 methods and rationale used to identify these other developments, and 				
	 descriptions of any potential adverse effects to air quality resulting from these developments. 				
	Residual cumulative effects will be characterized for the Future case and aggregated within the proposed Project and Baseline cases.	Part B	5.2.8.3.1 Cumulative Effects from Interactions between the Project and Planned and Announced Projects	5.2-33	
	The significance of predicted potential cumulative effects and the proposed Project contribution to cumulative effects will then be assessed using the methods outlined in Section 4.5.	Part B	5.2.8.3 Stage 3 - Determining Significance of Cumulative Effects	5.2-33	
	Incremental mitigation or management measures designed to avoid or reduce cumulative effects will be described.	Part B	5.2.8.4 Summary of Cumulative Effects	5.2-34	
5.2.6 Conclusion	This section of the Application will include a brief summary of the predicted Project residual and cumulative effects on air quality and a conclusion on the significance of these effects.	Part B	5.2.12 Conclusion	5.2-38	
5.3 Greenhouse Gas	Management				
5.3.1 Introduction	This section of the Application will introduce the greenhouse gas (GHG) management assessment, describe the rationale for selecting GHG management as a VC, and identify linkages to other sections of the Application.	Part B	5.3.1 Introduction	5.3-1	
5.3.2 Scope of	The GHG management assessment will focus on the following emissions	Part B	5.3.2.5 Selection of Measurable Parameters	5.3-7	
Assessment	associated with construction and operation of the LNG facility and shipping activities:	Part B	5.3.2.6 Boundaries	5.3-8	
	 CO₂, CH₄, N₂O, PFCs, HFCs, and SF₆ 				
	The Application will include a description of legislation, policies and quidelines, mitigation measures, and BMP that are relevant to GHG	Part B	5.3.2.1 Regulatory and Policy Setting	5.3-2	
	management.	Part B	5.3.5.2 Assessment of Greenhouse Gas Emissions	5.3-23	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	The Application will discuss anticipated GHG emissions of the proposed	Part B	5.3.2 Scope of Assessment	5.3-1	
	Project in relation to current federal and provincial GHG emission levels and trends.	Part B	5.3.2.4 Selection of Effects	5.3-6	
		Part B	5.3.5.2 Assessment of Greenhouse Gas Emissions	5.3-23	
		Part B	5.3.5.3 Determination of Significance for Greenhouse Gas Emissions	5.3-29	
		Part B	5.3.6 Summary of Project Residual Effects	5.3-30	
	International BMP relevant to GHG will also be discussed and reference will be made to the frequency with which these documents will be reviewed for updates.	Part B	5.3.9.2 Detailed Management Plan	5.3-34	
5.3.3 Baseline Conditions	The Application will provide information on current estimated provincial, national, and global GHG emission levels.	Part B	5.3.3.2 International, National, and Provincial Greenhouse Gas Emissions Inventory	5.3-11	
5.3.4 Effects	The Application will describe the specific approach and methods used to determine the proposed Project effects on GHG management, including criteria used for characterizing Project effects. Interactions with potential to result in effects of concern, as indicated in the Project Interaction Table (Table 4.4 1), will be carried forward in this analysis.	Part B	5.3.4 Project Interactions	5.3-16	
Assessment		Part B	5.3.5.1 Analytical Methods	5.3-18	
	The Application will present an assessment of the proposed Project's GHG emissions and GHG management approach within the context of provincial	Part B	5.3.5.2 Assessment of Greenhouse Gas Emissions	5.3-23	
	and federal policy and/or legislation.	Part B	5.3.5.3 Determination of Significance for Greenhouse Gas Emissions	5.3-29	
		Part B	5.3.6 Summary of Project Residual Effects	5.3-30	
	Potential mitigation measures to reduce GHG emissions will be described, and where possible emission reduction will be estimated and any relevant	Part B	5.3.5.2 Assessment of Greenhouse Gas Emissions	5.3-23	
	environmental management plans will be referenced. The Proponent will work with regulators to ensure that the proposed Project complies with provincial and federal policy on GHG management. Table 5.3-1 provides a summary of	Part B	5.3.9 Follow-up Program and Compliance Monitoring	5.3-34	
	the potential effects of the proposed Project on GHG management, and the	Part B	5.3.10 Summary of Mitigation Measures	5.3-35	
	measurable parameters that will be used in the assessment.	Part B	Table 5.3-2: Potential Project Effects on Greenhouse Gas Management and Measurable Parameters	5.3-8	

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	Project residual effects, after application of mitigation (where possible), will be	Part B	5.3.2 Scope of Assessment	5.3-1	
	described in the Application. GHG will be considered by: conducting a preliminary scoping of the Project GHG emissions, characterizing the residual effect (i.e., magnitude, duration), and comparing estimated Project GHG	Part B	5.3.5.2 Assessment of Greenhouse Gas Emissions	5.3-23	
	emissions to provincial, national, and global GHG emissions (pending any new approaches or guidelines released by the provincial or federal government). A summary of residual effects will be provided. The determination of significance will be based on CEA Agency guidance	Part B	5.3.6 Summary of Project Residual Effects	5.3-30	
	The determination of significance will be based on CEA Agency guidance (2003), in the absence of any further policies and regulations being released by the Government of Canada or the Government of BC for regulating GHG emissions for the LNG sector.	Part B	5.3.5.3 Determination of Significance for Greenhouse Gas Emissions	5.3-29	
5.3.5 Cumulative	A cumulative effects assessment following methods outlined in Section 4.5	Part B	5.3.7 Assessment of Cumulative Effects	5.3-33	
Effects Assessment	cannot be completed for project level GHG. In lieu of this, average project GHG will be compared to recent provincial, national and international emission inventories.	Part B	5.3.5.3 Determination of Significance for Greenhouse Gas Emissions	5.3-29	
5.3.6 Conclusion	This section of the Application will include a brief summary of the predicted residual effects of the proposed Project on GHG management.	Part B	5.3.11 Conclusion	5.3-36	
5.4 Acoustic Environ	nment				
5.4.1 Introduction	This section of the Application will introduce the acoustic environment assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application (e.g., wildlife).	Part B	5.4.1 Introduction	5.4-1	
5.4.2 Scope of	The Application will quantify acoustic emissions associated with construction	Part B	5.4.2.4 Selection of Effects	5.4-4	
	 and operation of the proposed Project. The assessment will focus on: Overall sound levels from the facility and shipping activities, and 	Part B	5.4.2.5 Selection of Measurable Parameters	5.4-4	
	Low frequency noise during facility construction and operation.	Part B	5.4.2.4 Selection of Effects	5.4-4	
		Part B	5.4.2.5 Selection of Measurable Parameters	5.4-4	
	A major emphasis in the assessment will be on emissions generated by gas processing and liquefaction equipment, possible onsite power generation, and	Part B	5.4.5.2.3 Characterization of Change in Overall Noise Levels and Low Frequency Noise	5.4-22	
	transportation activities.	Part B	5.4.6.2.3 Characterization of Change in Overall Noise Levels	5.4-42	

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	The town of Kitimat, located approximately 2 km to the northeast of the proposed Project, and Kitamaat Village, located some 7 km to the southeast of the project, are the nearest continually inhabited residential communities and will be considered in the assessment. Communities along the marine access route (i.e., Hartley Bay, Kitkatla, Lax Kw'alaams and Metlakatla) will also be assessed for potential effects of shipping noise, as will areas of importance or traditional use identified by Aboriginal Groups.	Part B	5.4.2.6 Boundaries	5.4-5	
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	5.4.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	5.4-3	
		Part B	5.4.2.3 Traditional Knowledge and Traditional Use Incorporation	5.4-4	
	The Application will include a description of the <i>British Columbia Noise Control Best Practices Guideline</i> (OGC 2009), section 9.12.1 of the Kitimat Municipal Code (Noise), and any other legislation, guidelines, BMP, and guidance documents that are relevant to management of noise levels.	Part B	5.4.2.1 Regulatory and Policy Setting	5.4-1	
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2 1 and Table 4.2 2.	Part B	5.4.2.6 Boundaries	5.4-5	
5.4.3 Baseline Conditions	Baseline conditions will be confirmed by conducting a continuous sound survey at various residential receptors around the proposed Project site and along the marine access route as identified through consultation with First Nations.	Part B	5.4.3 Baseline Conditions	5.4-12	
	The measurements will be conducted in accordance with the	Part B	5.4.3.1 Baseline Data Sources	5.4-12	
	recommendations contained in the British Columbia Noise Control Best Practices Guideline (OGC 2009). The measurement results will be used in conjunction with the default values specified in these guidelines to establish baseline sound levels in the LSA and by extension the RSA.	Part B	5.4.3.2 Baseline Overview	5.4-13	
5.4.4 Effects	The Application will describe the specific approach and methods used to	Part B	5.4.5.1 Analytical Methods (Facility)	5.4-18	
Assessment	determine the proposed Project effects on the acoustic environment, including criteria used for characterizing Project effects and determining significance, following the methods described in section 4. Interactions with potential to result in effects of concern, as indicated in the Project Interaction Table (Table 4.4-1), will be carried forward in this analysis.	Part B	5.4.6.1 Analytical Methods (Shipping)	5.4-41	

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
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	The Application will present an assessment of potential effects of the proposed Project on the acoustic environment during representative phases of	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
	the proposed Project.	Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	Significant sources of noise will be identified, described, and quantified in terms of noise emissions. Subsequently, sound levels over the entire LSA and	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
	at the identified receptors will be calculated for the proposed Project in accordance with the procedures stipulated by the OGC's British Columbia Noise Control Best Practices Guideline.	Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	Operational noise level predictions will be made using Cadna/A computer modelling software, or another proven computational tool. Noise modelling will	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
	be conducted in accordance with the ISO 9613 standard (propagation standard commonly accepted by numerous regulatory bodies and noise practitioners). The modelling results will be used to assess compliance with the guideline and the Kitimat Municipal Code.	Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	Appropriate mitigation measures will be recommended, as may be required to achieve compliance and/or reduce area noise effects.	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
		Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	Table 5.4 1 provides a summary of the potential effects of the proposed Project on the acoustic environment that will be assessed, and the measurable parameters that will be used to quantify these effects.	Part B	Table 5.4-1 Potential Effects on Acoustic Environment and Measurable Parameters	5.4-5
	Mitigation measures designed to reduce or avoid potential adverse effects will be described and relevant management plans will be referenced.	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
		Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	implemented noise control measures on the acoustic environment in the area	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
	during operation will be presented. The predicted mitigated Project noise levels will be used in conjunction with the established baseline noise levels to assess the Project effects.	Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context of	Part B	5.4.5.2 Assessment of Change in Overall Noise Levels and Low Frequency Noise	5.4-20
	the potential effects, as outlined in Section 4.4.4.	Part B	5.4.6.2 Assessment of Change in Overall Noise Levels	5.4-42
	A summary of residual effects and an assessment of their significance, likelihood, and a confidence prediction, based on Table 4.4-3, will be provided. The significance of residual effects will be determined as outlined in Section 4.4.6.	Part B	5.4.7 Summary of Project Residual Effects	5.4-48
5.4.5 Cumulative Effects Assessment	An assessment of cumulative effects on the acoustic environment will be provided following the procedures established in Section 4.5.	Part B	5.4.8 Assessment of Cumulative Effects	5.4-50
5.4.6 Conclusion	This section of the Application will include a brief summary of the predicted residual effects and cumulative effects of the proposed Project on the acoustic environment and a conclusion on the significance of these effects.	Part B	5.4.12 Conclusion	5.4-59
5.5 Vegetation Reso	urces			
5.5.1 Introduction	This section of the Application will introduce the vegetation resources assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application (e.g., wildlife resources and air quality).	Part B	5.5.1 Introduction	5.5-1
5.5.2 Scope of	The vegetation resources assessment in the Application will focus on:	Part B	5.5.2.4 Selection of Effects	5.5-6
Assessment	 Federally or provincially listed species at risk (as defined by the BC Conservation Data Centre, Species at Risk Act (SARA), and COSEWIC) 			
	■ Traditional use plant species	Part B	5.5.2.4 Selection of Effects	5.5-6
	 Invasive plant species 	Part B	5.5.2.4 Selection of Effects	5.5-6
	Provincially-listed ecological communities	Part B	5.5.2.4 Selection of Effects	5.5-6
	 Old forest 	Part B	5.5.2.4 Selection of Effects	5.5-6
	■ Floodplain associations	Part B	5.5.2.4 Selection of Effects	5.5-6
	Wetlands and wetland functions	Part B	5.5.2.4 Selection of Effects	5.5-6
	 Vegetation communities sensitive to air emissions 	Part B	5.5.2.4 Selection of Effects	5.5-6

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	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	5.5.2.3 Traditional Knowledge and Traditional Use Incorporation	5.5-5
	The Application will include a description of any legislation, guidelines, BMP, and guidance documents that are relevant to the protection and management of vegetation on private and public lands.	Part B	5.5.2.1 Regulatory and Policy Setting	5.5-1
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2 1 and Table 4.2 2. Technical boundaries, which include limitations in scientific information, data analyses, and interpretation, will also be defined through the assessment process.	Part B	5.5.2.6 Boundaries	5.5-7
5.5.3 Baseline	haseline conditions for vegetation resources:	Part B	5.5.3.2 Baseline Overview	5.5-17
Conditions		Part B	5.5.3.2.1 Terrestrial Local Study Area, Terrestrial	5.5-17
	proposed Project, (including uplands, wetlands, and floodplain associations)		Ecosystem Mapping	
	 Description of wetland functions within the LSA 	Part B	5.5.3.2.7 Wetlands in the Terrestrial Study Areas	5.5-31
	 Descriptions of ecological communities at risk identified through TEM and fieldwork (including uplands, wetlands and floodplain associations) 	Part B	5.5.3.2.6 Ecological Communities at Risk in the Terrestrial Study Areas	5.5-27
	 Identification of areas of old forest 	Part B	5.5.3.2.9 Old Forest in the Terrestrial Study Areas	5.5-36
	 A summary of provincially and federally listed vascular and non-vascular plants, including lichens and mosses, identified through field surveys and a query of the Conservation Data Centre 	Part B	5.5.3.2.3 Plant Species at Risk in the Terrestrial Study Areas	5.5-21
	 Information on the presence of non-native invasive plant species in the area where the proposed Project is located 	Part B	5.5.3.2.4 Non-Native Invasive Plant Species in the Terrestrial Study Areas	5.5-23
	 A summary of plant species identified by Aboriginal Groups as being of importance for cultural, spiritual, or traditional use, including vegetation used as country food, and 	Part B	5.5.3.2.5 Traditional Use Plants in the Terrestrial Study Areas	5.5-23
	 A summary of soil map units and associated measured chemical and physical soil parameters for acidification assessment. 		Emissions Assessment for Soils and Vegetation Technical Data Report	

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5.5.4 Effects	The Application will describe the specific approach and methods used to	Part B	5.5.2.7 Residual Effects Description Criteria	5.5-14
Assessment	determine the proposed Project effects on vegetation resources, including criteria used for characterizing Project effects and determining significance. Interactions with potential to result in effects of concern, as indicated in the	Part B	5.5.2.8 Significance Thresholds for Residual Effects	5.5-16
	Project Interaction Table (Table 4.4-1) will be carried forward in this analysis.	Part B	Table 5.5-14 Potential Project Effects on Vegetation Resources	5.5-40
		Part B	5.5.5.1 Assessment of Change in Abundance of Plant Species of Interest	5.5-42
		Part B	5.5.5.2 Assessment of Change in Abundance or Condition of Ecological Communities of Interest	5.5-45
		Part B	5.5.5.3 Assessment of Change in Native Vegetation Health and Diversity due to Emissions	5.5-57
	The Application will present an assessment of potential adverse effects of the proposed Project on vegetation resources during the construction, operation, and decommissioning phases. Table 5.5 1 provides a summary of the potential effects of the proposed Project on vegetation resources, and the measurable parameters that will be used to quantify the effects.	Part B	Table 5.5-2 Potential Project Effects on Vegetation Resources and Measurable Parameters	5.5-7
		Part B	5.5.5 Assessment of Residual Effects from the LNG Facility	5.5-42
	Mitigation measures designed to reduce or avoid potential adverse effects will be described and relevant management plans will be referenced.	Part B	5.5.5 Assessment of Residual Effects from the LNG Facility	5.5-42
		Part B	5.5.5.1.3 Mitigation for Change in Abundance of Plant Species of Interest	5.5-42
		Part B	5.5.5.2.3 Mitigation for Change in Abundance or Condition of Ecological Communities of Interest	5.5-46
		Part B	5.5.5.3.4 Mitigation for Change in Native Vegetation Health and Diversity due to Emissions	5.5-62
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context	Part B	5.5.5 Assessment of Residual Effects from the LNG Facility	5.5-42
	of the potential effects, as outlined in Section 4.4.4.	Part B	5.5.5.1.4 Characterization of Change in Abundance of Plant Species of Interest	5.5-43

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		Part B	5.5.5.2.4 Characterization of Change in Abundance or Condition of Ecological Communities of Interest	5.5-48	
		Part B	5.5.5.3.5 Characterization of Change in Native Vegetation Health and Diversity due to Emissions	5.5-62	
	A summary of residual effects and an assessment of their significance,	Part B	5.5.6 Summary of Residual Effects	5.5-69	
	likelihood and a confidence prediction, based on Table 4.4-3 will be provided. The significance of residual effects will be determined, as outlined in Section 4.4.6.	Part B	Table 5.5-26 Summary of Residual Effects on Vegetation Resources	5.5-71	
5.5.5 Cumulative Effects Assessment	An assessment of the proposed Project's potential contributions to cumulative effects on vegetation resources will be provided following the procedures established in Section 4.5.	Part B	5.5.7 Assessment of Cumulative Effects	5.5-70	
5.5.6 Conclusion	This section of the Application will include a brief summary of the predicted residual Project effects and cumulative effects on vegetation resources and a conclusion on the significance of these effects.	Part B	5.5.11 Conclusion	5.5-100	
5.6 Wildlife Resource	es				
5.6.1 Introduction	This section of the Application will introduce the wildlife resources assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application (e.g., acoustic environment, vegetation resources, surface water quality).	Part B	5.6.1 Introduction	5.6-1	
5.6.2 Scope of	The wildlife resources assessment in the Application will focus on:	Part B	5.6.2.4 Selection of Effects	5.6-7	
Assessment	 habitat for key species (quality and quantity), 	Part B	5.6.2.5 Selection of Measurable Parameters	5.6-8	
	sensory disturbance, and	Part B	5.6.2.4 Selection of Effects	5.6-7	
		Part B	5.6.2.5 Selection of Measurable Parameters	5.6-8	
	behavioural alterations.	Part B	5.6.2.4 Selection of Effects	5.6-7	
		Part B	5.6.2.5 Selection of Measurable Parameters	5.6-8	
	Table 5.6-1 presents the species that will be used in the assessment to represent the different species groups and habitat requirements within the terrestrial and marine environment relevant to the proposed Project.	Part B	5.6.2.5.1 Key Species	5.6-8	

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	The Application will also describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	5.6.2.3 Traditional Knowledge and Traditional Use Incorporation	5.6-6
	The Application will include a description of legislation, guidelines, BMP, and	hat are relevant to management of wildlife and their	5.6.2.1 Regulatory and Policy Setting	5.6-2
	guidance documents that are relevant to management of wildlife and their habitats. It will also expand on the rationale for the spatial boundaries identified in Table 4.2 1 and Table 4.2 2 with an emphasis on specific consideration of these key species, as appropriate.	Part B	5.6.2.6 Boundaries	5.6-10
	The assessment will also define technical boundaries that include limitations in available scientific information, data analyses, and interpretation, as defined through the assessment process.	Part B	5.6.2.6.3 Administrative and Technical Boundaries	5.6-15
5.6.3 Baseline		5.6.3.1 Baseline Data Sources	5.6-18	
Conditions		Part B	5.6.3.2 Baseline Overview	5.6-19
	 Assessment of habitat availability for key species within the terrestrial 	Part B	5.6.3.2 Baseline Overview	5.6-19
	wildlife LSA derived from habitat suitability modelling based on Terrestrial Ecosystem Mapping (TEM),	Part B	5.6.3.2.5 Terrestrial Wildlife Habitat Suitability Modelling	5.6-32
	 Summary of important terrestrial wildlife and marine bird habitats and features (e.g., breeding colonies, staging areas, identified raptor nests, and dens), 	Part B	5.6.3.2 Baseline Overview	5.6-19
	 Summary of the results of 2012 and 2013 field studies, including surveys 	Part B	5.6.3.2.3 Field Studies	5.6-22
	for terrestrial wildlife and marine birds, including surveys for diurnal and nocturnal raptors, migrating birds in the estuary, breeding songbirds, amphibians and incidental observations of wildlife or wildlife signs,	Part B	5.6.3.2.4 Field Study Results	5.6-28
	BC Conservation Data Centre element occurrence records,	Part B	5.6.2.1.7 BC Conservation Framework	5.6-4
		Part B	5.6.3.2.2 Species of Conservation Concern	5.6-22

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	Wildlife species identified on provincial (red- and blue-listed) and federal	Part B	5.6.3.2 Baseline Overview	5.6-19	
	(COSEWIC and Schedule 1 of the Species at Risk Act) lists of species of conservation concern with the potential to occur in the terrestrial and marine assessment areas,	Part B	5.6.3.2.2 Species of Conservation Concern	5.6-22	
	 A list of wildlife species of cultural, spiritual, or traditional importance to Aboriginal Groups with potential to occur in the assessment area, and 	Part B	5.6.3 Baseline Conditions	5.6-18	
	 Any other traditional ecological or community knowledge, where relevant and available. 	Part B	5.6.2.3 Traditional Knowledge and Traditional Use Incorporation	5.6-6	
5.6.4 Effects	The Application will describe the specific approach and methods used to	Part B	5.6.4 Project Interactions	5.6-35	
Assessment	determine the potential proposed Project-related effects on wildlife resources, including criteria used for characterizing effects and determining significance. Interactions with potential to result in effects of concern, as indicated in the	Part B	Table 5.6-2: Characterization of Residual Effects for Wildlife Resources	5.6-16	
	Project Interaction Table (Table 4.4 1), will be carried forward in this analysis.	Part B	5.6.4.1 Justification of Interaction Rankings	5.6-37	
	The Application will present an assessment of potential adverse effects of the proposed Project on wildlife, including terrestrial wildlife and marine birds, during construction, operation, and decommissioning. Table 5.6-2 provides a summary of the potential effects of the proposed Project on wildlife resources to be included in the assessment, and the measurable parameters that will be used to quantify these effects.	Part B	5.6.4 Project Interactions	5.6-35	
		Part B	5.6.4.1 Justification of Interaction Rankings	5.6-40	
		Part B	Table 5.6-1: Project Potential Effects on Wildlife Resources and Measurable Parameters	5.6-8	
	Mitigation measures will be described that are designed to reduce or avoid	Part B	5.6.5.2.2 Mitigation for Loss or Change in Habitat	5.6-41	
	predicted effects. Relevant management plans will also be referenced.	Part B	5.6.5.3.2 Mitigation for Risk of Injury or Mortality	5.6-50	
		Part B	5.6.5.4.2 Mitigation for Sensory Disturbance or Behavioural Alterations	5.6-55	
		Part B	5.6.6.2.2 Mitigation for Risk of Injury or Mortality	5.6-60	
		Part B	5.6.6.3.2 Mitigation for Sensory Disturbance or Behavioural Alterations	5.6-62	
	The residual effects of the proposed Project will be characterized by the	Part B	5.6.2.7 Residual Effects Description Criteria	5.6-15	
	magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4.	Part B	5.6.5 Assessment of Residual Effects from the LNG Facility	5.6-40	
		Part B	5.6.5.2 Assessment of Loss or Change in Habitat	5.6-41	

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		Part B	5.6.5.3 Assessment of Risk of Injury or Mortality	5.6-50
		Part B	5.6.5.4 Assessment of Sensory Disturbance or Behavioural Alterations	5.6-54
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		Part B	5.6.6 Assessment of Residual Effects from Shipping	5.6-60
		Part B	5.6.6.2 Assessment of Risk of Injury or Mortality	5.6-60
		Part B	5.6.6.3 Assessment of Sensory Disturbance or Behavioural Alterations	5.6-61
		Part B	5.6.6.4 Summary	5.6-64
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	5.6.7 Summary of Project Residual Effects	5.6-65
	The significance of residual effects will be determined as outlined in Section 4.4.6.	Part B	5.6.5.2.4 Determination of Significance for Loss or Change in Habitat	5.6-49
		Part B	5.6.5.3.4 Determination of Significance of Risk of Injury or Mortality	5.6-54
		Part B	5.6.5.4.4 Determination of Significance of Sensory Disturbance or Behavioural Alterations	5.6-58
		Part B	5.6.6.2.4 Determination of Significance of Risk of Injury or Mortality	5.6-61
		Part B	5.6.6.3.4 Determination of Significance of Sensory Disturbance or Behavioural Alterations	5.6-64
		Part B	5.6.7 Summary of Project Residual Effects	5.6-65
5.6.5 Cumulative Effects Assessment	An assessment of the potential cumulative environmental effects on wildlife resources in the RSAs will follow the procedures established in Section 4.5.	Part B	5.6.8 Assessment of Cumulative Effects	5.6-75

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5.6.6 Conclusions	This section of the Application will include a brief summary of the predicted	Part B	5.6.7 Summary of Project Residual Effects	5.6-65
	residual and cumulative effects of the proposed Project on wildlife resources and a conclusion on the significance of these effects.	Volume Section Page Include a brief summary of the predicted the proposed Project on wildlife resources are of these effects. Part B 5.6.8 stage 3, Determining Significance of Cumulative Effects Part B 5.6.8.4 Summary of Cumulative Effects Part B 5.6.8.4 Summary of Cumulative Effects Part B 5.6.12 Conclusion 5.6.93	5.6-81	
		Part B	5.6.8.4 Summary of Cumulative Effects	5.6-83
		Part B	5.6.12 Conclusion	5.6-92
5.7 Freshwater and	Estuarine Fish and Fish Habitat			
5.7.1 Introduction	This section of the Application will introduce the freshwater and estuarine fish and fish habitat assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application.	Part B	5.7.1 Introduction	5.7-1
		Part B	Identification of Issues in the Assessment	5.7-3
		Part B		5.7-9
5.7.2 Scope of	The freshwater and estuarine fish and fish habitat assessment in the Application will focus on: fish, as defined in the Fisheries Act (e.g., including shellfish and crustaceans), found in surface water bodies and that are part of commercial, recreational, or Aboriginal fisheries, or that support such a fishery,	Part B	5.7.1 Introduction	5.7-1
Assessment		Part B	5.7.3.3 Baseline Overview	5.7-25
	■ Species-at-risk,	Part B	5.7.2.1 Regulatory and Policy Setting	5.7-3
		Part B	5.7.2.4 Selection of Effects	5.7-10
		Part B	5.7.2.5 Selection of Measurable Parameters	5.7-11
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		Part B	Table 5.7-5 Residual Effects Significance Thresholds	5.7-21
	■ Fish habitat,	Part B	5.7.2.4 Selection of Effects	5.7-10
		Part B	5.7.2.5 Selection of Measurable Parameters	5.7-11
		Part B	5.7.2.8 Significance Thresholds for Residual Effects	5.7-20
		Part B	5.7.3.3 Baseline Overview	5.7-25
		Part B	Table 5.7-3 Potential Effects on Freshwater and Estuarine Fish and Fish Habitat and Measurable Parameters	5.7-12
		Part B	Table 5.7 -6 Primary Information Sources for Freshwater and Estuarine Fish and Fish Habitat	5.7-22
	Water quality and quantity, and		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report	
		Part B	5.7.1 Introduction	5.7-1
		Part B	5.7.2.4 Selection of Effects	5.7-10
		Part B	5.7.2.5 Selection of Measurable Parameters	5.7-11
		Part B	5.7.3.3 Baseline Overview	5.7-25
		Part B	5.7.4.1 Justification of Interaction Ranking	5.7-39
		Part B	5.7.6.3 Change in Fish Health	5.7-62
		Part B	Table 5.7-1Legislation and Regulations Applicable to the Freshwater and Estuarine Fish and Fish Habitat Valued Component	5.7-4
		Part B	Table 5.7-3 Potential Effects on Freshwater and Estuarine Fish and Fish Habitat and Measurable Parameters	5.7-12
		Part B	Table 5.7-5 Residual Effects Significance Thresholds	5.7-21

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		Part B	Section 5.9 Surface Water Quality	5.9-1	
	 Sediment quality (in terms of the capacity for project effects to lead to flow obstructions or sediment release). 		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report		
		Part B	5.7.4.1 Justification of Interaction Rankings	5.7-39	
		Part B	5.7.5.2.2 Mitigation for Changes in Fish Habitat	5.7-45	
	The Application will include a description of legislation, guidelines, BMP, and	Part B	5.7.4.1 Justification of Interaction Rankings	5.7-39	
	F	Part B	5.7.2.5 Selection of Measurable Parameters	5.7-11	
		Part B	5.7.2.8 Significance Thresholds for Residual Effects	5.7-20	
		Part B	Table 5.7-1 Legislation and Regulations Applicable to the Freshwater and Estuarine Fish and Fish Habitat Valued Component	5.7-4	
		Part B	Table 5.7-2 Policies and Guidelines Applicable to the Freshwater and Estuarine Fish and Fish Habitat Valued Component	5.7-7	
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2. Technical boundaries, which include limitations		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report		
	in scientific information, data analyses, and interpretation, will also be defined, if necessary.	Part B	5.7.2.6 Boundaries	5.7-13	
		Part B	5.7.2.6.1 Spatial Boundaries	5.7-13	
		Part B	5.7.2.6.2 Temporal Boundaries	5.7-14	
	The Application will also describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	5.7.2.6.3 Administrative Boundaries	5.7-14	
		Part B	5.7.2.6.4 Technical Boundaries	5.7-17	
			Freshwater and Estuarine Fish and Fish Habitat Technical Data Report		
		Part B	5.7.2.3 Traditional Knowledge and Traditional Use Incorporation	5.7-9	
		Part B	5.7.7.1 Stage 1, Cumulative Effects Context	5.7-62	

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5.7.3 Baseline Conditions	The Application will include baseline studies of the freshwater and estuarine habitats potentially affected by the proposed Project and will document the		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report	
	quantity and quality of fish habitat by type and fish species assemblage using these habitats over time and space. The Application will provide the following	Part B	5.7.3.3.2 Fish Habitat	5.7-34
	information in written form and/or maps characterizing the baseline conditions for freshwater and estuarine fish and fish habitat: Habitat unit (pool, riffle, glide, side channel, cascade) location, quantification, qualification, photo documentation and mapping in potentially affected estuarine tidal channels and the anadromous sections of Anderson and Beaver creeks during low, moderate and high water levels (winter, spring, late spring-early summer and fall)	Part B	Table 5.7-11 Wetted Area W_A Measurements and Habitat Unit Estimates for Mainstem Aquatic Habitat	5.7-35
			Freshwater and Estuarine Fish and Fish Habitat Technical Data Report	
		Part B	5.7.3.3.1 Fisheries	5.7-25
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		Part B	Figure 5.7-6 Trout Observations in the Local Study Area	5.7-28
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		Part B	Figure 5.7-8 Eulachon Observations in the Local Study Area	5.7-30
		Part B	Table 5.7-7 Fish Species of CRA Importance in Local Study Area Watercourses	5.7-31
		Part B	Table 5.7-8 Mainstem Closed-site Electrofishing Catch-per-unit-area Data for all Seasonally Sampled Streams	5.7-32
		Part B	Table 5.7-9 Winter Minnow Trap Catch-per-unit- effort (fish/hour) for Mainstem Streams and Overall Habitat	5.7-33

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	 Depth, velocity, substrate transects in all habitat unit types, and application of Habitat Suitability Indices (HSI; by species and life-stage) 		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report				
	for use in Habitat Evaluation Procedures (HEP; USFWS 1980) assessment, and	Part B	5.7.3.2.2 Freshwater Fish Habitat	5.7-23			
		Part B	Table 5.7-11 Wetted Area W _A Measurements and Habitat Unit Estimates for Mainstem Aquatic Habitat	5.7-35			
	Pi	Part B	Table 5.7-12 Habitat Parameters for Juvenile Coho Salmon in Mainstem Habitats	5.7-35			
		Part B	Table 5.7-13 Seasonal Estimates of Available Off-channel Freshwater Aquatic Habitat in the Local Study Area	5.7-37			
		Part B	Table 5.7-14 Wetted Area WA of Expected Freshwater Off-channel Habitat as a Function of Median Monthly Discharge Q March	5.7-37			
	 Physical data, habitat assessment (for all life history requirements), basic water quality as related to freshwater and estuarine fish and fish habitat, 		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report				
	fish capture and meristic information as described by the Resource Inventory Committee (RIC 2001) for all habitat unit types.	Part B	5.7.3.2.1 Freshwater Fish	5.7-22			
	and the specific control of th	Part B	5.7.3.2.2 Freshwater Fish Habitat	5.7-23			
	P	Part B	Table 5.7-8 Mainstem Closed-site Electrofishing Catch-per-unit-area Data for all Seasonally Sampled Streams	5.7-32			
		Part B	Table 5.7-9 Winter Minnow Trap Catch-per-unit- effort (Fish/hour) for Mainstem Streams and Overall Habitat	5.7-33			
		Part B	Table 5.7-10 Standardized Catch-per-unit-area by Species for all Estuarine Sampling Sites in the Local Study Area	5.7-34			

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5.7.4 Effects Assessment	The Application will describe the specific approach and methods used to determine the proposed Project effects on freshwater and estuarine fish and		Freshwater and Estuarine Fish and Fish Habitat Technical Data Report		
concern, as indicated in the Project Interaction Table (Table 4.4 1), will be carried forward in this analysis.		Part B	5.7.4 Project Interactions	5.7-38	
	concern, as indicated in the Project Interaction Table (Table 4.4 1), will be	Part B	5.7.5 Assessment of Residual Effects	5.7-43	
	carried forward in this analysis.	Part B	5.7.5.1.1 Analytical Assessment Techniques	5.7-43	
	Part B	5.7.5.1.2 Assumptions and the Conservative Approach	5.7-44		
		Part B	5.7.6 Summary of Project Residual Effects	5.7-57	
		Part B	Table 5.7-4 Characterization of Residual Effects for Freshwater and Estuarine Fish and Fish Habitat	5.7-19	
		Part B	Table 5.7-5 Residual Effects Significance Thresholds	5.7-21	
	The Application will present an assessment of potential adverse effects of the proposed Project on freshwater and estuarine fish and fish habitat during the construction, operation, and decommissioning phases. Table 5.7-1 provides a summary of the potential effects and the measurable parameters to be	Part B	5.7.5.2 Assessment of Changes in Fish Habitat	5.7-45	
		Part B	5.7.5.3 Assessment of Change in Risk of Physical Injury or Mortality Fish	5.7-51	
assessed.		Part B	Table 5.7-3 Potential Effects on Freshwater and Estuarine Fish and Fish Habitat and Measurable Parameters	5.7-12	
		Part B	Table 5.7-15 Potential Effects on Freshwater and Estuarine Fish and Fish Habitat	5.7-38	
		Part B	Table 5.7-1 Type, Productivity, and Area of Serious Harm to Freshwater Fish	5.7-50	
		Part B	Table 5.7-17 Type, Productivity, and Area of Serious Harm to Estuarine Fish	5.7-50	
		Part B	Table 5.7-18 Summary of Project Residual Effects: Freshwater and Estuarine Fish and Fish Habitat	5.7-58	
		Part B	5.7.8 Prediction Confidence and Risk	5.7-69	

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	Mitigation measures designed to avoid, eliminate or reduce predicted effects	Part B	5.7.4.1 Justification of Interaction Rankings	5.7-39
	will be described, and any relevant environmental management plans (EMPs) will be referenced.	Part B	5.7.5.2.2 Mitigation for Changes in Fish Habitat	5.7-45
		Part B	5.7.5.3.2 Mitigation for Change in Risk of Physical Injury or Mortality to Fish	5.7-52
		Part B	5.7.10 Summary of Mitigation Measures	5.7-73
		Part B	Table 5.7-1 Legislation and Regulations Applicable to the Freshwater and Estuarine Fish and Fish Habitat Valued Component	5.7-4
		Part B	Table 5.7-18 Summary of Project Residual Effects: Freshwater and Estuarine Fish and Fish Habitat	5.7-58
	magnitude geographic extent duration frequency reversibility and context	Part B	5.7.2.7 Residual Effects Description Criteria	5.7-17
		Part B	5.7.5.2.3 Characterization of Changes in Fish Habitat	5.7-48
		Part B	5.7.5.3.3 Characterization of Change in Risk of Physical Injury or Mortality to Fish	5.7-55
		Part B	Table 5.7 -4 Characterization of Residual Effects for Freshwater and Estuarine Fish and Fish Habitat	5.7-19
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	Table 5.7-18 Summary of Project Residual Effects: Freshwater and Estuarine Fish and Fish Habitat	5.7-58
		Part B	5.7.5.2.3 Characterization of Changes in Fish Habitat	5.7-48
		Part B	5.7.5.3.3 Characterization of Change in Risk of Physical Injury or Mortality to Fish	5.7-55
		Part B	5.7.5.2.4 Determination of Significance of Changes in Fish Habitat	5.7-51
		Part B	5.7.5.3.4 Determination of Significance for Change in Risk of Physical Injury or Mortality to Fish	5.7-57

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		Part B	5.7.6 Summary of Project Residual Effects	5.7-57
		Part B	Table 5.7-18 Summary of Project Residual Effects: Freshwater and Estuarine Fish and Fish Habitat	5.7-58
	The significance of residual effects will be determined as outlined in Section 4.4.6.	Part B	5.7.2.8 Significance Thresholds for Residual Effects	5.7-20
		Part B	Table 5.7-5 Residual Effects Significance Thresholds	5.7-21
		Part B	Table 5.7-18 Summary of Project Residual Effects: Freshwater and Estuarine Fish and Fish Habitat	5.7-58
5.7.5 Cumulative	An assessment of the proposed Project's potential contributions to cumulative effects on freshwater and estuarine fish and fish habitat will be provided following the procedures established in Section 4.5.	Part B	5.7.7 Assessment of Cumulative Effects	5.7-62
Effects Assessment		Part B	5.7.7.1 Stage 1, Cumulative Effects Context	5.7-62
		Part B	5.7.7.2.1 Changes in Fish Habitat	5.7-65
		Part B	5.7.7.2.2 Change in Risk of Physical Injury or Mortality to Fish	5.7-67
		Part B	5.7.7.2.3 Change in Fish Health	5.7-68
		Part B	5.7.7.3 Stage 3, Determining Significance of Cumulative Effects	5.7-68
		Part B	5.7.7.3.1 Changes in Fish Habitat	5.7-68
		Part B	5.7.7.3.2 Change in Risk of Physical Injury or Mortality to Fish	5.7-68
		Part B	5.7.7.3.3 Change in Fish Health	5.7-69
		Part B	5.7.7.4 Summary of Cumulative Effects	5.7-69
		Part B	Table 5.7-19 Potential for Cumulative Effects on Freshwater and Estuarine Fish and Fish Habitat	5.7-64
		Part B	Table 5.7-20 Summary of Cumulative Effects on Freshwater and Estuarine Fish and Fish Habitat	5.7-70

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5.7.6 Conclusion	This section of the Application will include a brief summary of the predicted	Part B	5.7.8 Prediction Confidence and Risk	5.7-69
	residual Project effects and cumulative effects on freshwater and estuarine fish and fish habitat and a conclusion on the significance of these effects.	Part B	5.7.9 Follow-up Program and Compliance Monitoring	5.7-73
		Part B	5.7.10 Summary of Mitigation Measures	5.7-73
		Part B	5.7.11 Conclusion	5.7-77
5.8 Marine Resource	s			
5.8.1 Introduction	This section of the Application will introduce the marine resources assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application.	Part B	5.8.1 Introduction	5.8-1
5.8.2 Scope of Assessment	The marine resources assessment will focus on: Marine fish part of commercial, Aboriginal and recreational fisheries	Part B	5.8.2 Scope of Assessment	5.8-2
	Marine mammals	Part B	5.8.2 Scope of Assessment	5.8-2
	Marine fish habitat	Part B	5.8.2 Scope of Assessment	5.8-2
	Aquatic species-at-risk	Part B	5.8.2 Scope of Assessment	5.8-2
	Sediment and water quality, and	Part B	5.8.2 Scope of Assessment	5.8-2
	■ Underwater noise	Part B	5.8.2 Scope of Assessment	5.8-2
	The Application will include a description of legislation, guidelines, BMP, and guidance documents that are relevant to the protection and management of marine resources including: fish and invertebrates (e.g., crabs, shrimp, bivalves) with commercial, recreational, and aboriginal fisheries, or fish that support such a fishery; fish habitat (e.g., algae, seagrass); marine mammals; aquatic species-at-risk; and general water chemistry and sediment quality.	Part B	5.8.2.1 Regulatory and Policy Setting	5.8-2
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment	Part B	5.8.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	5.8-8
		Part B	5.8.2.3 Traditional Knowledge and Traditional Use Incorporation	5.8-8

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
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	The Application will also expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2. Technical boundaries, which include limitations in scientific information, data analyses, and interpretation, will also be defined through the assessment process.	Part B	5.8.2.6 Boundaries	5.8-12
5.8.3 Baseline Conditions	The Application will characterize the baseline conditions for marine resources by providing the	Part B	5.8.3 Baseline Conditions	5.8-22
	following information:			
	 descriptions of ecological communities and marine fish habitat identified through fieldwork and literature reviews (e.g., eelgrass beds and glass sponges), 			
	 descriptions of marine fish species (e.g., Pacific salmon, herring) in relation to the LSAs and RSAs, 	Part B	5.8.3 Baseline Conditions	5.8-22
	 descriptions of general water chemistry and sediment quality in relation to 	Part B	5.8.3 Baseline Conditions	5.8-22
	the facility LSA and RSA,	Part B	5.8.3.2.3 - Sediment and Water Chemistry	5.8-37
	 descriptions of important habitat and potential and candidate critical habitat for marine mammals, as identified through fieldwork and literature reviews, 	Part B	5.8.3 Baseline Conditions	5.8-22
	 descriptions of abundance and distribution of marine mammal species in relation to the shipping LSA and RSA, 	Part B	5.8.3 Baseline Conditions	5.8-22
	 summary of relevant life history of marine mammals in the shipping LSA and RSA (seasonal occurrence, underwater hearing physiology), 	Part B	5.8.3 Baseline Conditions	5.8-22
	 a summary of federally listed species and species of conservation concern identified through a query of the SARA registry, COSEWIC assessments, and the BC Conservation Data Centre, and 	Part B	5.8.3 Baseline Conditions	5.8-22
	 baseline data on ambient underwater noise in the facility and shipping RSAs. 	Part B	5.8.3 Baseline Conditions	5.8-22

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5.8.4 Effects	The Application will describe the specific approach and methods used to	Part B	5.8.2.9 Residual Effects Description Criteria	5.8-22
Assessment	determine effects of the proposed Project on marine resources, including criteria used for characterizing effects and determining significance. Interactions with potential to result in residual effects (see Table 4.4-1), will be	Part B	5.8.2.10 Significance Thresholds for Residual Effects	5.8-22
carried forward into this analysis.	Part B	5.8.5 Assessment of Residual Effects from the LNG Facility	5.8-48	
	Р	Part B	5.8.5.2 Assessment of Change in Fish Habitat	5.8-49
Pa	Part B	5.8.5.3 Assessment of Change in Fish Health at the LNG Facility as a Result of Toxicity	5.8-61	
	Part B	5.8.5.4 Assessment of Harm to Fish or Marine Mammals	5.8-66	
	Part B	5.8.5.5 Assessment of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves (Facility)	5.8-80	
		Part B	5.8.6 Assessment of Residual Effects from Shipping	5.8-87
		Part B	5.8.6.2 Assessment of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves (Shipping)	5.8-89
	The Application will present an assessment of potential adverse effects of the	Part B	5.8.2.5 Selection of Measurable Parameters	5.8-10
	proposed Project on marine resources during the construction, operation, and decommissioning phases. Table 5.8 1 provides a summary of the potential effects of the proposed Project on marine resources that will be included in	Part B	5.8.5 Assessment of Residual Effects from the LNG Facility	5.8-48
the assessment, and the measurable parameters that will be used to quantify these effects.	the assessment, and the measurable parameters that will be used to quantify	Part B	5.8.5.2 Assessment of Change in Fish Habitat	5.8-49
	triese effects.	Part B	5.8.5.3 Assessment of Change in Fish Health at the LNG Facility as a Result of Toxicity	5.8-22 5.8-22 5.8-48 5.8-49 5.8-61 5.8-66 5.8-80 5.8-80 5.8-89 5.8-89
		Part B	5.8.5.4 Assessment of Harm to Fish or Marine Mammals	5.8-66
	Part B	5.8.5.5 Assessment of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves (Facility)	5.8-80	

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		Part B	5.8.6.2 Assessment of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves	5.8-89
	Mitigation measured designed to reduce or avoid potential adverse effects will be described and relevant management plans will be referenced.	Part B	5.8.5 Assessment of Residual Effects from the LNG Facility	5.8-48
		Part B	5.8.5.2.3 Mitigation for Change in Fish Habitat	5.8-53
	P:	Part B	5.8.5.3.3 Mitigation for Change in Fish Health at the LNG Facility as a Result of Toxicity	5.8-62
		Part B	5.8.5.4.3 Mitigation for Harm to Fish or Marine Mammals	5.8-71
		Part B	5.8.5.5.3 Mitigation for Change in Behaviour of Fish or Marine Mammals due to Underwater Noise or Pressure Waves	5.8-83
		Part B	5.8.6 Assessment of Residual Effects from Shipping	5.8-87
		Part B	5.8.6.2.2 Mitigation for Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves	5.8-89
	The residual effects of the proposed Project will be characterized by the	Part B	5.8.5.2 Assessment of Change in Fish Habitat	5.8-49
	magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4.	Part B	5.8.5.2.4 Characterization of Change in Fish Habitat	5.8-54
		Part B	5.8.5.3.4 Characterization of Change in Fish Health at the LNG Facility as a Result of Toxicity	5.8-63
		Part B	5.8.5.4.4 Characterization of Harm to Fish or Marine Mammals	5.8-72
		Part B	5.8.5.5.4 Characterization of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves	5.8-83
		Part B	5.8.6.2 Assessment of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressure Waves	5.8-89

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		Part B	5.8.6.2.3 Characterization of Change in Behaviour of Fish or Marine Mammals Due to Underwater Noise or Pressures Waves	5.8-90	
		Part B	5.8.7 Summary of Project Residual Effects	5.8-99	
	A summary of residual effects and an assessment of their significance,	Part B	5.8.7 Summary of Project Residual Effects	5.8-99	
	likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	Table 5.8-14 Summary of Project Residual Effects: Marine Resources	5.8-100	
5.8.5 Cumulative Effects	An assessment of cumulative effects on marine resources will be provided following the methods established in Section 4.5.	Part B	5.8.8 Assessment of Cumulative Effects	5.8-111	
5.8.6 Conclusion	This section of the Application will include a brief summary of the predicted residual Project effects and cumulative effects on marine resources and a conclusion on the significance of these effects.	Part B	5.8.12 Conclusion	5.8-137	
5.9 Surface Water	Quality				
5.9.1 Introduction	This section of the Application will introduce the surface water quality assessment, describe the rationale for the selection of surface water quality as a VC, and identify linkages to other sections of the Application.	Part B	5.9.1 Introduction	5.9-1	
5.9.2 Scope of Assessment	The surface water quality assessment of streams and lakes will focus on: • basic water chemistry,	Part B	5.9.2.5 Selection of Measurable Parameters	5.9-3	
	acid neutralising capacity,	Part B	5.9.2.5 Selection of Measurable Parameters	5.9-3	
	ritical loads, and	Part B	5.9.2.5 Selection of Measurable Parameters	5.9-3	
	physical characteristics of water bodies.	Part B	5.9.2.5 Selection of Measurable Parameters	5.9-3	
	The Application will include a description of any legislation, guidelines, BMP, and guidance documents that are relevant to the protection of aquatic resources and the management the acidification potential in surface water.	Part B	5.9.2.1 Regulatory and Policy Setting	5.9-1	
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2. Technical boundaries, which include limitations in scientific information, data analyses, and interpretation, will also be defined.	Part B	5.9.2.6 Boundaries	5.9-3	
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	5.9.2.3 Traditional Knowledge and Traditional Use Incorporation	5.9-2	

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5.9.3 Baseline Conditions	The Application will include baseline surface water quality information gathered from readily available data including previously filed environmental impact assessments, publicly available data from other operators in the region, government sources, and surface topography. Surface water quality data, includes parameters with high relevance to acidification (e.g., pH, alkalinity, sulphate) in the local and regional study area (LSA and RSA).	Part B	5.9.3 Baseline Conditions	5.9-8
5.9.4 Effects Assessment	The Application will describe the specific approach and methods used to evaluate the potential acidification of freshwater systems due to sulphur dioxide (SO2) and nitrogen oxide (NOX) emissions. Those interactions with potential to result in effects of concern (see Table 4.4-1) will be carried forward into this analysis.	Part B	5.9.5.1 Analytical Methods	5.9-13
	The Application will present an assessment of potential adverse effects of the	Part B	5.9.4 Project Interactions	5.9-12
	proposed Project on surface water quality for freshwater environments during the construction, operation and decommissioning phases. Table 5.9-1 provides a summary of the potential effects and the measurable parameters.	Part B	Table 5.9-1: Potential Effects on Surface Water Quality and Measurable Parameters	5.9-3
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4.	Part B	5.9.2.7 Residual Effects Description Criteria	5.9-6
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	5.9.5.2.3 Characterization of Change in Acidification Potential	5.9-16
		Part B	5.9.5.3.3 Characterization of Change in Trophic Status Causing Eutrophication	5.9-22
	The significance of residual effects will be determined, as outlined in Section 4.4.6.	Part B	5.9.5.2.4 Determination of Significance for Change in Acidification Potential	5.9-21
		Part B	5.9.5.3.4 Determination of Significance for Change in Trophic Status Causing Eutrophication	5.9-24
5.9.5 Cumulative Effects Assessment	An assessment of the Project's potential contributions to the acidification cumulative effects on the surface water quality of freshwater systems will be provided following the procedures established in Section 4.5.	Part B	5.9.8 Assessment of Cumulative Effects	5.9-27
5.9.6 Conclusion	This section of the Application will include a brief summary of the predicted residual Project effects and cumulative effects on surface water quality and a conclusion on their significance.	Part B	5.9.8.4 Summary of Cumulative Effects	5.9-33

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5.10 Assessmer	nt Summary of Potential Environmental Effects			
5.10 Assessment Summary of Potential	This section of the Application will provide a summary table of predicted residual environmental effects of the proposed Project and their significance	Part B	5.10 Summary of Assessment of Potential Environmental Effects	5.10-1
Environmental Effects	(as per the format of Table 5.10-1).	Part B	Table 5.10-1 Summary of Project Residual Effects on Air Quality	5.10-1
		Part B	Table 5.10-2 Summary of Project Residual Effects on Greenhouse Gas Emissions	5.10-2
		Part B	Table 5.10-3 Summary of Project Residual Effects on the Acoustic Environment	5.10-4
		Part B	Table 5.10-4 Summary of Project Residual Effects on Vegetation Resources	5.10-6
		Part B	Table 5.10-5 Summary of Project Residual Effects on Wildlife Resources	5.10-8
		Part B	Table 5.10-6 Summary of Project Residual Effects on Freshwater and Estuarine Fish and Fish Habitat	5.10-11
		Part B Table 5.10-7 Summary of Project Residua Effects on Marine Resources	Table 5.10-7 Summary of Project Residual Effects on Marine Resources	5.10-14
		Part B	Table 5.10-8 Summary of Project Residual Effects on Surface Water Quality	5.10-20
	A summary of cumulative effects of the proposed Project on the	Part B	5.10 Summary of Potential Environmental Effects	5.10-1
	environmental VC will be provided in this section.	Part B	5.10.1.2 Summary of Cumulative Effects on Air Quality	5.10-1
		Part B 5.10.1.4 Summary of Cumulative Effects on Greenhouse Gas Emissions	5.10-3	
		Part B	5.10.2.2 Summary of Cumulative Effects on the Acoustic Environment	5.10-5
		Part B	5.10.3.2 Summary of Cumulative Effects on Vegetation Resources	5.10-7

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		Part B	5.10.4.2 Summary of Cumulative Effects on Wildlife Resources	5.10-11
		Part B	5.10.5.2 Summary of Cumulative Effects on Freshwater and Estuarine Fish and Fish Habitat	5.10-12
		Part B	5.10.6.2 Summary of Cumulative Effects on Marine Resources	5.10-13
		Part B	5.10.7.2 Summary of Cumulative Effects on Surface Water Quality	5.10-20
6 Assessment of P	otential Economic Effects			
6.1 Economic Backg	round			
6.1 Economic Background	This section of the Application will include a description of the existing economic environment in the vicinity of the proposed Project and surrounding areas. More details will be provided in the baseline conditions section for the economic conditions VC.	Part B	6.1 Economic Background	6-1
6.2 Economic Condit	ions			
6.2.1 Introduction	This section of the Application will introduce the assessment of economic effects, describe the rationale for selecting economic conditions as a VC and identify linkages to other sections of the Application (e.g., social environment, Aboriginal interests).	Part B	6.2.1 Introduction	6-1
6.2.2 Scope of	The economic conditions effects assessment will focus on:	Part B	6.2.3.2.1 Labour Availability	6-15
Assessment	labour availability (persons),	Part B	Table 6.2-4 Labour Force Activity, LSA and RSA for 2011	6-15
		Part B	Table 6.2-5 Labour Force Activity by Gender, LSA and RSA for 2011	6-16
		Part B	Table 6.2-6 Aboriginal Labour Force Activity, LSA and RSA for 2011	6-17
		Part B	Table 6.2-7 Aboriginal Labour Force Activity, LSA and RSA for 2011	6-18
		Part B	Table 6.2-8 Changes in Labour Force Activity, LSA and RSA, 2006-2011	6-19

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	 labour force skill levels (includes adult education and skills training), 	Part B	6.2.3.2.2 Labour Force Skill Levels	6-21
		Part B	Table 6.2-10 Highest Level of Educational Attainment, Population Aged 25 to 64 for 2011	6-22
		Part B	Table 6.2-11 Highest Post-Secondary Enrollment Targets and Actual Enrollments 2008/2009 to 2013/2014	6-23
		Part B	Table 6.2-12 Employment by Industry, LSA and RSA for 2011	6-25
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	■ labour wages,	Part B	6.2.3.2.3 Labour Incomes	6-27
		Part B	Table 6.2-14 Incomes and Earnings in the LSA and RSA for 2010	6-27
	cost of living,	Part B	6.2.3.2.4 Cost of Living	6-28
		Part B	Table 6.2-15 Annual Cost of Living, Selected Communities for 2013	6-28
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		Part B	Table 6.2-17 Real Estate Sales and Prices for Selected Communities	6-30
		Part B	Table 6.2-18 Households Spending Greater Than 30% of Income on Shelter Costs	6-31
		Part B	Table 6.2-19 2006 to 2011 Shelter Costs and Average Home Values	6-32
		Part B	Table 6.2-20 2007 to 2013 Vacancy Rates and Rental Market Survey Results	6-33
	economic activity, and	Part B	6.2.3.2.6 Commercial Fishing and Marine-based Recreation	6-33
		Part B	Table 6.2-21 Aboriginal Labour Force Employment by Industry	6-34

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	goods and services.	Part B	6.2.3.2.5 Availability of Goods and Services	6-33
	The assessment will include the potential adverse economic effects of the	Part B	6.2.2.4 Selection of Effects	6-6
	proposed Project to local and regional economies and economic aspects of overlap and interactions with other land users and tenures.	Part B	Table 6.2-2 Potential Project Effects on Economic Conditions and Measurable Parameters	6-8
	Project benefits will be described in Section 2.5.	Part B	6.2.5 Assessment of Residual Effects from the LNG Facility	6-37
	The Application will include a description of policies and BMP that are relevant to minimizing economic pressures and maximizing benefits of major projects.	Part B	6.2.5.2.2 Mitigation for Change in Labour Supply and Demand	6-41
		Part B	6.2.5.3.2 Mitigation for Change in Economic Activity of Other Sectors	6-51
		Part B	6.2.6.2.2 Mitigation for Change in Economic Activity of Other Sectors	6-60
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2.	Part B	6.2.2.6.1 Spatial Boundaries	6-8
	The Application will define technical boundaries, if relevant, which include limitations in scientific information, data analyses, and interpretation as defined through the assessment process.	Part B	6.2.2.6.3 Administrative and Technical Boundaries	6-10
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	6.2.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	6-4
		Part B	6.2.2.3 Traditional Knowledge and Traditional Use Incorporation	6-5
		Part B	6.2.3.1 Baseline Data Sources	6-14
6.2.3 Baseline	The Application will describe the current characteristics of the economic	Part B	6.2.3 Baseline Conditions	6-14
Conditions	environment. Information will be obtained from existing literature and other data sources, where available. Communications and interviews with representatives from appropriate government departments or agencies and other organizations (e.g., Aboriginal communities, local business organizations) will be carried out as necessary to fill data gaps.	Part B	6.2.3.1 Baseline Data Sources	6-14

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	This section of the Application will summarize:	Part B	6.2.3 Baseline Conditions	6-14	
	 current economic conditions, including existing businesses and industry 	Part B	Table 6.2-12 Employment by Industry, LSA and RSA for 2011	6-25	
	 key economic indicators and trends in the absence of the proposed Project, based on statistical data (Census Canada, BC Stats), and other published and non-published reports, 	Part B	6.2.3.1 Baseline Data Sources	6-14	
	 labour market, including employment/unemployment, current employers, 	Part B	6.2.3.2.1 Labour Availability	6-15	
	available labour supply and level of education/skills/training of the labour force, based on data from Census Canada, BC Stats, and Service Canada, Northwest Regional Workforce Table Regional Skills Training Plan (Ingenia Consulting 2013) and Labour Market Supply Side Scan for BC's Natural Gas Sector (Ingenia Consulting 2012), as well as primary information sources, and	Part B	Table 6.2-4 Labour Force Activity, LSA and RSA for 2011	6-15	
		Part B	Table 6.2-5 Labour Force Activity by Gender, LSA and RSA for 2011	6-16	
		Part B	Table 6.2-6 Aboriginal Labour Force Activity, LSA and RSA for 2011	6-17	
		Part B	Table 6.2-7 Aboriginal Labour Force Activity by Gender, LSA and RSA for 2011	6-15	
		Part B	Table 6.2-8 Changes in Labour Force Activity, LSA and RSA, 2006-2011	6-19	
		Part B	Table 6.2-10 Highest Level of Educational Attainment, Population Aged 25 to 64 for 2011	6-22	
		Part B	Table 6.2-11 Highest Post-Secondary Enrollment Targets and Actual Enrollments 2008/2009 to 2013/2014	6-23	
	 supply of goods and services in the region based on information from the local government and chamber of commerce, other published and non- published data, and primary information sources. 	Part B	6.2.3.2.5 Availability of Goods and Services	6-33	
.2.4 Effects	This section of the Application will describe the specific approach and	Part B	6.2.4 Project Interactions	6-35	
ssessment	methods used to determine the proposed Project effects on the economic environment, including criteria used for characterizing Project effects and predicting their significance. Interactions with potential to result in effects of	whent/unemployment, current employers, el of education/skills/training of the labour sus Canada, BC Stats, and Service forkforce Table Regional Skills Training and Labour Market Supply Side Scan for and Labour Market Supply Side Scan for and Example Stats, and Service for 2011 Part B Table 6.2-4 Labour Force Activity, LSA and RSA for 2011 Part B Table 6.2-5 Labour Force Activity by Gender, LSA and RSA for 2011 Part B Table 6.2-6 Aboriginal Labour Force Activity, LSA and RSA for 2011 Part B Table 6.2-7 Aboriginal Labour Force Activity by Gender, LSA and RSA for 2011 Part B Table 6.2-8 Changes in Labour Force Activity, LSA and RSA, 2006-2011 Part B Table 6.2-10 Highest Level of Educational Attainment, Population Aged 25 to 64 for 2011 Part B Table 6.2-11 Highest Post-Secondary Enrollment Targets and Actual Enrollments 2008/2009 to 2013/2014 Part B 6-2-3-2-5 Availability of Goods and Services 6-3-3-2-5 Availability of Goods and Services 6-3-3-2-5 Availability of Goods and Services 6-3-3-2-5 Availability of Goods and Services 6-3-3-3-5 Availability	6-35		
	concern (see Table 4.4-1) will be carried forward into this analysis.	Part B	6.2.4.1 Justification of Interaction Rankings	6-36	

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	This section of the Application will present an assessment of potential effects	Part B	6.2.2.5 Selection of Measurable Parameters	6-7
	of the proposed Project on the economic environment during construction, operation, and decommissioning. Table 6.2-1 provides a summary of the potential effects of the proposed Project on economic conditions that will be assessed, and the measurable parameters that will be used to quantify these effects.	Part B	Table 6.2-2 Potential Project Effects on Economic Conditions and Measurable Parameters	6-8
	Mitigation measures designed to reduce or avoid predicted adverse effects will be described, and any relevant management plans will be referenced.	Part B	6.2.5.2.2 Mitigation for Change in Labour Supply and Demand	6-41
		Part B	6.2.5.3.2 Mitigation for Change in Economic Activity of Other Sectors	6-51
		Part B	6.2.6.2.2 Mitigation for Change in Economic Activity of Other Sectors	6-60
	The residual effects of the proposed Project will be characterized by their magnitude, geographic extent, duration, frequency, reversibility, and context	Part B	6.2.5.4 Summary of Residual Effects from the LNG Facility	6-56
	of the potential effects, as outlined in Section 4.4.4.	Part B	6.2.6.3 Summary of Residual Effects from Shipping	6-61
		Part B	6.2.7 Summary of Project Residual Effects	6-61
		Part B	Table 6.2-26 Summary of Project Residual Effects: Economic Conditions	6-62
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	6.2.5.4 Summary of Residual Effects from the LNG Facility	6-56
		Part B 6.2.6.3 Summary of Residual Effects from Shipping	6-61	
		Part B	6.2.7 Summary of Project Residual Effects	6-61
		Part B	Table 6.2-26 Summary of Project Residual Effects: Economic Conditions	6-62

AIR Section	Description of Descriptments of Delevent Section and Subsection		Application Reference		
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	The significance of residual effects will be determined, as outlined in Section 4.4.6. Significance criteria ratings will be supported, where possible,	Part B	6.2.2.8 Significance Thresholds for Residual Effects	6-14	
	through reference to threshold criteria, management standards and objectives. Where management standards or threshold criteria do not exist,	Part B	6.2.4.1 Justification of Interaction Rankings	6-36	
	significance criteria will be defined and justifications for the criteria will be provided.	Part B	6.2.5.2.4 Determination of Significance for Change in Labour Supply and Demand	6-48	
		Part B	6.2.5.3.4 Determination of Significance for Change in Economic Activity of Other Sectors	6-55	
		Part B	6.2.6.2.4 Determination of Significance for Change in Economic Activity of Other Sectors	6-60	
		Part B	6.2.7 Summary of Project Residual Effects	6-61	
		Part B	6.2.9 Prediction Confidence and Risk	6-77	
		Part B	Table 6.2-26 Summary of Project Residual Effects: Economic Conditions	6-62	
6.2.5 Cumulative	An assessment of the proposed Project's potential contributions to cumulative	Part B	6.2.8 Assessment of Cumulative Effects	6-64	
Effects Assessment	effects on economic conditions will be provided following the procedures established in Section 4.5.	Part B	6.2.8.1 Stage 1, Cumulative Effects Context	6-64	
		Part B	6.2.8.2 Stage 2, Determination of Potential Cumulative Interactions	6-67	
		Part B	Table 6.2-28 Potential Cumulative Effects on Economic Conditions	6-67	
		Part B	6.2.8.3 Stage 3, Determining Significance of Cumulative Effects	6-69	
		Part B	6.2.8.4 Summary of Cumulative Effects	6-72	
6.2.6 Conclusion	This section of the Application will include a brief summary of the predicted residual effects and cumulative effects of the proposed Project on economic conditions and a conclusion on the significance of these effects.	Part B	6.2.12 Conclusion	6-79	

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6.3 Summary of Asse	ssment of Potential Economic Effects				
6.3 Summary of Assessment of Potential Economic	This section of the Application will provide a summary table of potential residual Project effects on economic conditions as per the format of	Part B	6.3 Summary of Assessment of Potential Economic Effects	6-80	
Effects	Table 5.10-1.	Part B	Table 6.3-1 Summary of Project Residual Effects on Economic Conditions	6-80	
	A summary of cumulative effects of the proposed Project on economic conditions will also be provided in this section.	Part B	6.3.2 Summary of Cumulative Economic Effects	6-81	
7 Assessment of Po	otential Social Effects				
7.1 Social Backgroun	d				
7.1 Social Background	This section of the Application will include a description of the existing social environment in the vicinity of the proposed Project and surrounding areas, to provide a general understanding of the region surrounding the proposed Project. More details will be provided in the baseline section of each VC chapter.	Part B	7.1 Social Background	7.1-1	
7.2 Infrastructure Ser	vices				
7.2.1 Introduction	This section of the Application will introduce the assessment of effects on infrastructure and services, describe the rationale for selecting infrastructure and services as a VC, and identify linkages to other sections of the Application (e.g., economic effects, and Part C).	Part B	7.2.1 Scope of Assessment	7.2-1	
7.2.2 Scope of Assessment	The infrastructure and services assessment will focus on: accommodations,	Part B	7.2.2.2.14 Housing and Accommodations	7.2-37	
	■ transportation,	Part B	7.2.2.2.13 Transportation	7.2-34	
	■ utilities,	Part B	7.2.2.2.6 Utilities	7.2-22	
	■ communications,	Part B	7.2.2.2.8 Communications Infrastructure	7.2-25	
	education (includes education facilities, early childhood education),	Part B	7.2.2.2.9 Education and Daycare Services	7.2-25	
	■ land-based emergency services,	Part B	7.2.2.2.10 Emergency and Protective Services	7.2-26	
	social and recreational services and land-based recreation sites, and	Part B	7.2.2.2.11 Land-based Recreational Resources	7.2-28	
	 community infrastructure (include community centres). 	Part B	7.2.2.2.11 Land-based Recreational Resources	7.2-28	

AIR Section	Description of Regularments of Relevant Section and Subsection		Application Reference		
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	The Application will include a description of legislation, guidelines, BMP, and guidance documents that are relevant to minimizing negative effects on infrastructure and services.	Part B	7.2.1.1 Regulatory and Policy Setting	7.2-1	
	It will also expand on the rationale for the spatial boundaries identified in	Part B	7.2.1.6.1 Spatial Boundaries	7.2-4	
	Table 4.2 1 and Table 4.2 2. Where logical and practical the assessment on accommodations, including government assisted housing, will be conducted at the community level.		7.2.1.6.3 Administrative and Technical Boundaries	7.2-7	
	,		7.2.2.2.14 Housing and Accommodations	7.2-37	
			Table 7.2-17 LSA Housing Characteristics	7.2-38	
		Table 7.2-20 BC Housing Income Limits for Kitimat and Terrace, 2012 to 2013		7.2-46	
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	7.2.1.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.2-2	
			7.2.1.3 Traditional Knowledge and Traditional Use Incorporation	7.2-3	
7.2.3 Baseline	The Application will describe the approach and methods used to collect	Part B	Boundaries 7.2.2.2.14 Housing and Accommodations Table 7.2-17 LSA Housing Characteristics Table 7.2-20 BC Housing Income Limits for Kitimat and Terrace, 2012 to 2013 7.2.1.2 Consultations' Influence on the Identification of Issues and the Assessment Process 7.2.1.3 Traditional Knowledge and Traditional	7.2-9	
Conditions	baseline social information (e.g., demographic data, housing information) required to support the assessment, and will identify the sources of this information.			7.2-9	
			7.2.2.1.1 Primary Research	7.2-10	
	It will characterize baseline conditions and will include information relating to: • official community plans,	Part B	7.2.2.2.5 Governance	7.2-21	
	■ regional Governance,	Part B 7.2.2.2.5 Governance	7.2-21		
	 housing and accommodations, including government assisted housing, 	Part B	7.2.2.2.14 Housing and Accommodations	7.2-37	
			Table 7.2-17 LSA Housing Characteristics	7.2-38	
			Table 7.2-20: BC Housing Income Limits for Kitimat and Terrace, 2012 to 2013	7.2-46	

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	■ community services,	Part B	7.2.2.2.6 Utilities	7.2-22
			7.2.2.2.10 Emergency and Protective Services	7.2-26
			7.2.2.2.9 Education and Daycare Services	7.2-25
			7.2.2.2.11 Land-based Recreational Resources	7.2-28
	 land-based emergency services, 	Part B	7.2.2.2.10 Emergency and Protective Services	7.2-26
	sewage and water treatment facilities,	Part B	7.2.2.2.6 Utilities	7.2-22
	garbage collection and disposal and recycling facilities,	Part B	7.2.2.2.6 Utilities	7.2-22
	 transportation infrastructure, 	Part B	7.2.2.6 Utilities	7.2-22
	■ energy and utilities,	Part B	7.2.2.6 Utilities	7.2-22
	communications infrastructure, and	Part B	7.2.2.8 Communications Infrastructure	7.2-25
	 land-based recreational resources. 	Part B	7.2.2.2.11 Land-based Recreational Resources	7.2-28
	Infrastructure and services will be described using statistical information,	Part B	7.2.2.1 Baseline Data Sources	7.2-9
	published reports, academic literature and other qualitative data sources, where appropriate. Key informant interviews with representatives from appropriate government departments/agencies (municipal and provincial) and		7.2.2.2.6 Utilities 7.2.2.2.8 Communications Infrastructure 7.2.2.2.11 Land-based Recreational Resources 7.2.2.1 Baseline Data Sources Table 7.2-3: Infrastructure and Services Research Methods 7.2.2.1.1 Primary Research 7.2.2.2 Baseline Overview 7.2.2.2.13 Transportation Table 7.2-14 Traffic Counts for Roads and	7.2-9
	other organizations (e.g., Aboriginal Groups and community organizations) will			7.2-10
	be completed as required.			7.2-11
	The Application will include a description of the existing road network and use	Part B	7.2.2.2.13 Transportation	7.2-34
	estimates along the principal access routes to the proposed Project area.		Table 7.2-14 Traffic Counts for Roads and Intersections in the LSA	7.2-35
			Table 7.2-15 Traffic Counts for Highways in the RSA	7.2-35
			Table 7.2-16 Traffic Collisions for Roads and Intersections in the LSA, 2008 to 2012	7.2-36
	The baseline will also describe other transportation modes in the LSA that may be affected by the proposed Project. Information will be developed from secondary data, and discussions with appropriate government agencies and other organizations as appropriate.	Part B	7.2.2.2.13 Transportation	7.2-34

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
7.2.4 Effects	This section of the Application will describe the specific approach and	Part B	7.2.1.7 Residual Effects Description Criteria	7.2-7
Assessment	methods used to determine the proposed Project effects on infrastructure and services, including criteria used for characterizing Project effects and predicting their significance. Interactions with potential to result in effects of		Table 7.2-2 Characterization of Residual Effects for Infrastructure and Services	7.2-8
	concern (see Table 4.4-1) will be carried forward into this analysis.	Volume Section Part B Table 7.2-2 Characterization of Residual Effects for Infrastructure and severe feets and forward into this analysis. Part B 7.2.1.7 Residual Effects Description Criteria Table 7.2-2 Characterization of Residual Effects for Infrastructure and Services 7.2.1.8 Significance Thresholds for Residual Effects 7.2.3 Project Interactions 7.2.4.1 Analytical Methods 7.2.4.1 Analytical Assessment Techniques Part B Part B Part B 7.2.4 Assessment of Residual Effects from the LNG Facility Table 7.2-1 Potential Effects on Infrastructure and Services and Measurable Parameters Part B 7.2.4.2 Mitigation for Effects on Community Services and Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects on Tarffic and Pressure on Transportation Infrastructure 7.2.4.3 Characterization of Residual Effects 7.2.4.3 Characterization of Residual Effects	7.2-9	
			Table 7.2-2 Characterization of Residual Effects for Infrastructure and Services 7.2.1.8 Significance Thresholds for Residual Effects 7.2.3 Project Interactions 7.2.3.1 Justification of Interaction Rankings 7.2.4.1 Analytical Methods 7.2.4.1.1 Analytical Assessment Techniques B 7.2.4 Assessment of Residual Effects from the LNG Facility Table 7.2-1 Potential Effects on Infrastructure and Services and Measurable Parameters B 7.2.4.2.2 Mitigation for Effects on Community Services and Infrastructure 7.2.4.3.2 Mitigation for Effects on Traffic and Pressure on Transportation Infrastructure 7.2.4.4.2 Mitigation for Change in Housing Availability 7.2.4.2.3 Characterization of Residual Effects on	7.2-47
			7.2.3.1 Justification of Interaction Rankings	7.2-49
			7.2.4.1 Analytical Methods	7.2-50
			7.2.4.1.1 Analytical Assessment Techniques	7.2-50
	This section of the Application will present an assessment of potential effects of the proposed Project on infrastructure and services during construction, operations, decommissioning, and post-closure. Table 7.2-1 provides a summary of the potential effects of the proposed Project on infrastructure and services that will be assessed, and measurable parameters that will be used to quantify these effects.	Part B		7.2-50
				7.2-4
	Mitigation measures designed to reduce or avoid predicted effects will be described, and any relevant management plans will be referenced.	Part B		7.2-55
				7.2-67
				7.2-71
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context	Part B		7.2-57
	of the potential effects, as outlined in Section 4.4.4.		Traffic and Pressure on Transportation	7.2-68
				7.2-73
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	7.2.5 Summary of Project Residual Effects	7.2-76

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	The significance of residual effects will be determined, as outlined in Section 4.4.6. Significance criteria ratings will be supported, where possible, through reference to threshold criteria, management standards and	Part B	7.2.4.2.4 Determination of Significance for Residual Demand on Community Infrastructure and Services	7.2-66
	tives. Where management standards or threshold criteria do not exist, icance criteria will be defined and justifications for the criteria will be ded.		7.2.4.3.4 Determination of Significance for Residual Effects on Traffic and Pressure on Transportation Infrastructure	7.2-71
			7.2.4.4.4 Determination of Significance for Residual Change in Housing Availability	7.2-76
7.2.5 Cumulative Effects	An assessment of cumulative effects on infrastructure and services will be provided following the procedures established in Section 4.5.	Part B	7.2.6 Assessment of Cumulative Effects	7.2-82
7.2.6 Conclusion	This section of the Application will include a brief summary of the predicted residual Project effects and cumulative effects on infrastructure and services, and a conclusion on the significance of these effects.	Part B	7.2.10 Conclusion	7.2-103
7.3 Visual Quality				
7.3.1 Introduction	This section of the Application will describe the rationale for selecting visual quality as a VC and identify linkages to other sections of the Application (e.g., economic effects, and Aboriginal Groups).	Part B	7.3.1 Introduction	7.3-1
7.3.2 Scope of	The visual quality assessment will focus on:	Part B	7.3.2 Scope of Assessment	7.3-2
Assessment	Visual condition (facility and shipping)			
	 Important viewpoints as established through consultation 	Part B	7.3.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.3-4
		Part B	7.3.2.3 Traditional Knowledge and Traditional Use Incorporation	7.3-5
	As the proposed LNG facility is anticipated to alter the viewscape from the	Part B	7.3.2.1 Regulatory and Policy Setting	7.3-2
	District of Kitimat and from the water in Kitimat Arm, the Application will consider changes in the visual quality relative to baseline conditions, in consideration of the existing visual condition, established visual quality objectives, and identified important viewpoints. The assessment will also	Part B	7.3.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.3-4
	include potential effects on visual quality at viewpoints along the marine access route.	Part B	7.3.2.3 Traditional Knowledge and Traditional Use Incorporation	7.3-5

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		Part B	7.3.2.4 Selection of Effects	7.3-6
		Part B	7.3.2.5 Selection of Measurable Parameters	7.3-6
		Part B	7.3.2.7 Residual Effects Description Criteria	7.3-10
		Part B	7.3.2.8 Significance Thresholds for Residual Effects	7.3-12
	The Application will expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2.	Part B	7.3.2.6.1 Spatial Boundaries	7.3-7
	Technical boundaries, which include limitations in scientific information, data	Part B	7.3.2.6.2 Temporal Boundaries	7.3-7
	analyses, and interpretation, will also be defined through the assessment process.	Part B	7.3.2.6.3 Administrative and Technical Boundaries	7.3-10
		Part B	7.3.3.1 Baseline Data Sources	7.3-13
		Part B	7.3.5.1 Analytical Methods (Facility)	7.3-29
		Part B	7.3.6.1 Analytical Methods (Shipping)	7.3-36
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	7.3.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.3-4
		Part B	7.3.2.3 Traditional Knowledge and Traditional Use Incorporation	7.3-5
7.3.3 Baseline Conditions	The Application will describe the approach and methods used to collect baseline information required to support the assessment, and will identify the sources of this information. Baseline information related to visual quality will	Part B	7.3.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.3-4
	be obtained from the following sources: consultation with community members to assist in identification of	Part B	7.3.2.3 Traditional Knowledge and Traditional Use Incorporation	7.3-5
	potential viewpoints of concern,	Part B	Use Incorporation 7.3.3.1 Baseline Data Sources	7.3-13
		Part B	7.3.3.2 Baseline Overview	7.3-18
	existing land use plans, policy and legislation,	Part B	7.3.2.1 Regulatory and Policy Setting	7.3-2
	 provincial visual landscape inventory and visual quality objectives information, 	Part B	7.3.2.1 Regulatory and Policy Setting	7.3-2

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	 viewshed analysis of the proposed LNG facility to identify areas of 	Part B	7.3.3.1 Baseline Data Sources	7.3-13
	potential visibility,	Part B	7.3.3.2 Baseline Overview	7.3-18
	 literature review and information interviews to identify potentially sensitive 	Part B	7.3.3.1 Baseline Data Sources	7.3-13
	viewpoints, including residences and recreation sites,	Part B	7.3.3.2 Baseline Overview	7.3-18
	field inventory and collection of photographic and attribute information	Part B	7.3.3.1 Baseline Data Sources	7.3-13
	from field observations at selected viewpoints,	Part B	7.3.3.2 Baseline Overview	7.3-18
	 description of landscape character, calculation of baseline existing visual 	Part B	7.3.3.1 Baseline Data Sources	7.3-13
	conditions and characterization of visual sensitivity at the proposed Project site based on MFLNRO guidance for visual landscape inventory procedures, and	Part B	7.3.3.2 Baseline Overview	7.3-18
	 photo-documentation of views and viewshed analysis from identified 	Part B	7.3.3.1 Baseline Data Sources	7.3-13
	viewpoints along the marine access route, description of landscape character along the marine access route and description of baseline shipping channel traffic.	Part B	7.3.3.2 Baseline Overview	7.3-18
7.3.4 Effects	This section of the Application will describe the specific approach and	Part B	7.3.4 Project Interactions	7.3-27
Assessment	methods used to determine the proposed Project effects on visual quality, including criteria used for characterizing Project effects and predicting their	Part B	7.3.3.1 Baseline Data Sources 7.3.3.2 Baseline Overview 7.3.4 Project Interactions 7.3.5.1 Analytical Methods (Facility) 7.3.5.2 Assessment of Reduction in Visual Quality (Facility) 7.3.6.1 Analytical Methods (Shipping) 7.3.6.2 Assessment of Reduction in Visual Quality (shipping) 7.3.4 Project Interactions 7.3.5.1 Analytical Methods 7.3.5.2 Assessment of Reduction in Visual Quality (Facility)	7.3-29
	significance. Interactions with potential to result in effects of concern (see Table 4.4-1) will be carried forward into this analysis.	heir Part B 7.3.5.1 Analytical Methods (Facility) Part B 7.3.5.2 Assessment of Reduction in Visual	7.3-30	
		Part B	7.3.6.1 Analytical Methods (Shipping)	7.3-36
		Part B		7.3-38
	This section of the Application will present an assessment of potential effects	Part B	7.3.4 Project Interactions	7.3-27
	of the proposed Project on visual quality during representative phases of the proposed Project. Table 7.3-1 provides a summary of the potential effects of	Part B	7.3.5.1 Analytical Methods	7.3-29
	the proposed Project on visual quality that will be assessed, and the measurable parameters that will be used to quantify these effects.	Part B		7.3-30
		Part B	7.3.6.1 Analytical Methods (Shipping)	7.3-36
		Part B	7.3.6.2 Assessment of Reduction in Visual Quality (Shipping)	7.3-38

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	Mitigation measures designed to reduce or avoid predicted effects will be described, and any relevant management plans will be referenced.	Part B	7.3.5.2 Assessment of Reduction in Visual Quality (Facility)	7.3-30
		Part B	7.3.6.2 Assessment of Reduction in Visual Quality (Shipping)	7.3-38
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context	Part B	7.3.5.2 Assessment of Reduction in Visual Quality (Facility)	7.3-30
	of the potential effects, as outlined in Section 4.4.4. A summary of residual effects and an assessment of their significance, likelihood and a confidence	Part B	7.3.5.3 Summary	7.3-36
	prediction, based on Table 4.4-3, will be provided for effects of the Project on visual quality.	Part B	7.3.6.2 Assessment of Reduction in Visual Quality (Shipping)	7.3-38
			7.3.6.3 Summary	7.3-45
		Part B	7.3.7 Summary of Project Residual Effects	7.3-46
	The significance of residual effects will be determined, as outlined in Section 4.4.6. Significance criteria ratings will be supported, where possible, through reference to threshold criteria, management standards and objectives. Where management standards or threshold criteria do not exist, significance criteria will be defined and justifications for the criteria will be provided.	Part B	7.3.2.8 Significance Thresholds for Residual Effects	7.3-12
		Part B	7.3.5.2 Assessment of Reduction in Visual Quality (Facility)	7.3-30
		Part B	7.3.6.2 Assessment of Reduction in Visual Quality (Shipping)	7.3-38
		Part B	7.3.9 Prediction Confidence and Risk	7.3-54
7.3.5 Cumulative Effects	An assessment of cumulative effects on visual quality will be provided following the procedures established in Section 4.5.	Part B	7.3.8 Assessment of Cumulative Effects	7.3-46
7.3.6 Conclusion	This section of the Application will include a brief summary of the predicted	Part B	7.3.11 Summary of Mitigation Measures	7.3-54
	residual Project effects and cumulative effects on visual quality, and a conclusion on the significance of these effects.	Part B	7.3.12 Conclusion	7.3-55
7.4 Marine Transpor	rtation & Use	<u> </u>	<u> </u>	
7.4.1 Introduction	This section of the Application will describe the rationale for selecting marine transportation and use as a VC and identify linkages to other sections of the Application (e.g., marine resources and Part C).	Part B	7.4.1 Introduction	7.4-1
7.4.2 Scope of Assessment	The marine transportation and use assessment will focus on: • Marine navigation	Part B	7.4.2 Scope of Assessment	7.4-1

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
	Marine traffic	Part B	7.4.2 Scope of Assessment	7.4-1
	Aboriginal, commercial and recreational fisheries	Part B	7.4.2 Scope of Assessment	7.4-1
	Marine and coastal recreation and tourism	Part B	7.4.2 Scope of Assessment	7.4-1
	Marina use	Part B	7.4.2 Scope of Assessment	7.4-1
	The assessment of effects on marine transportation and use will include the	Part B	7.4.2.4 Selection of Effects	7.4-4
	potential effects arising from interactions between the proposed Project infrastructure and users of navigable waters in the vicinity of the marine terminal, and the proposed Project associated shipping (e.g., construction, operation, and decommissioning) and other marine transportation or resource use activities (including marine-based tourism) within Kitimat Arm, Douglas Channel, Principe Channel, to the Pilot Boarding Station area near Triple Island. An assessment of the impacts of vessel wake on marine transportation and use will be included in this section.	Part B	7.4.2.5 Selection of Measurable Parameters	7.4-4
	The Application will expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2.	Part B	7.4.2.6.1 Spatial Boundaries	7.4-5
	Technical boundaries, which include limitations in scientific information, data analyses, and interpretation, will also be defined through the assessment process.	Part B	7.4.2.6.3 Administrative and Technical Boundaries	7.4-6
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	7.4.2.3 Traditional Knowledge and Traditional Use Incorporation	7.4-3
7.4.3 Baseline Conditions	Baseline conditions will be characterized from primary and secondary data including:	Part B	7.4.2.6.3 Administrative and Technical Boundaries	7.4-6
	 planning initiatives: Pacific North Coast Integrated Management Area and the Marine Planning Partnership for the North Pacific Coast, 		7.4.3.1.1 Literature	7.4-12
	 DFO statistical data and reports on commercial, recreational, and Aboriginal fisheries, 	Part B	7.4.3.1.3 Commercial and Recreational Fisheries Data	7.4-12
			7.4.3.1.4 Aboriginal Fisheries Data	7.4-13
			7.4.3.2.3 Marine Fisheries	7.4-24

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference		
AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	 geospatial data related to commercial, recreational and Aboriginal fisheries available from DFO and BC Marine Conservation Analysis, 	Part B	7.4.3.1.3 Commercial and Recreational Fisheries Data	7.4-12	
			7.4.3.1.4 Aboriginal Fisheries Data	7.4-13	
			7.4.3.2.3 Marine Fisheries	7.4-24	
	 observation data on marine users within the LSA and RSA based on field 	Part B	7.4.3.1.2 Shipping Data	7.4-12	
	studies,		7.4.3.2.2 Shipping	7.4-15	
	 data and reports on recreational and tourism activities, 	Part B	7.4.3.1.5 Recreation and Tourism Data	7.4-13	
			7.4.3.1.7 Primary Research	7.4-13	
			7.4.3.2.1 Marine Terminal	7.4-14	
			7.4.3.2.2 Shipping	7.4-15	
			7.4.3.2.4 Recreation and Tourism	7.4-48	
	 consulting reports on marine use and navigation prepared for previous 	Part B	7.4.3.1.1 Literature	7.4-12	
	projects, including the Kitimat LNG project and the Northern Gateway project,		7.4.3.1.4 Aboriginal Fisheries Data	7.4-13	
	project,		7.4.3.2.2 Shipping	7.4-15	
			7.4.3.2.4 Recreation and Tourism	7.4-48	
	■ marine traffic information provided by the Canadian Coast Guard Marine	Part B	7.4.3.1.2 Shipping Data	7.4-12	
	Communications and Traffic Services,		7.4.3.2.2 Shipping	7.4-15	
	 data from the Pacific Pilotage Authority, and 	Part B	7.4.3.1.2 Shipping Data	7.4-12	
			7.4.3.2.2 Shipping	7.4-15	
	 information interviews with Aboriginal Groups and members of the marine community. 	Part B	7.4.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.4-3	
			7.4.3.1.7 Primary Research	7.4-13	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume Section	Section	Page	
7.4.4 Effects	This section of the Application will describe the specific approach and	Part B	7.4.2.4 Selection of Effects	7.4-4	
7.4.4 Effects Assessment	methods used to determine the proposed Project effects on marine transportation and use, including criteria used for characterizing Project		7.4.2.7 Residual Effects Description Criteria	7.4-9	
	effects and predicting their significance. Interactions with potential to result in effects of concern (see Table 4.4-1) will be carried forward into this analysis.		7.4.2.8 Significance Thresholds for Residual Effects	7.4-9	
			7.4.4 Project Interactions	7.4-58	
			7.4.4.1 Justification of Interaction Rankings	7.4-60 rs 7.4-4 the 7.4-62	
	This section of the Application will present an assessment of potential effects	Part B	7.4.2.5 Selection of Measurable Parameters	7.4-4	
	of the proposed Project on marine traffic and resource use during construction, operations, decommissioning, and post-closure. Table 7.4-1 provides a summary of the potential effects of the proposed Project on marine		7.4.5 Assessment of Residual Effects from the LNG Facility	7.4-62	
	transportation and use that will be assessed, and the measurable parameters that will be used to quantify these effects.		7.4.6 Assessment of Residual Effects from Shipping	7.4-69	
	Mitigation measures designed to reduce or avoid predicted effects will be described, and any relevant management plans will be referenced.	Part B	7.4.5.2.2 Mitigation for Interference with Marine Navigation (Facility)	7.4-63	
			7.4.5.3.2 Mitigation for Effects on Marinas and Moorage Facilities	7.4-65	
			7.4.6.2.2 Mitigation for Interference with Marine Fisheries and Shoreline Harvesting (Shipping)	7.4-72	
			7.4.6.3.2 Mitigation for Interference with Marine Recreation and Tourism	7.4-81	
			7.4.11 Summary of Mitigation Measures	7.4-102	
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4.	Part B	7.4.7 Summary of Project Residual Effects	7.4-84	

AIR Section	Description of Requirements of Relevant Section and Subsection		Application Reference	
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	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	7.4.5.2.3 Characterization of Interference with Marine Navigation	7.4-64
			7.4.5.2.4 Determination of Significance of Interference with Marine Navigation	7.4-64
			7.4.5.3.3 Characterization of Effects on Marinas and Moorage Facilities	7.4-65
			7.4.5.3.4 Determination of Significance for Effects on Marinas and Moorage Facilities	7.4-68
			7.4.5.4 Summary	7.4-69
			7.4.6.2.3 Characterization of Interference with Marine Fisheries and Shoreline Harvesting	7.4-74
			7.4.6.2.4 Determination of Significance for Interference with Marine Fisheries and Shoreline Harvesting	7.4-80
		7.4.6.3.3 Characterization of Interference wi Marine Recreation and Tourism	7.4.6.3.3 Characterization of Interference with Marine Recreation and Tourism	7.4-81
			7.4.6.3.4 Determination of Significance for Interference with Marine Recreation and Tourism	7.4-83
			7.4.6.4 Summary	7.4-84
	The significance of residual effects will be determined, as outlined in Section 4.4.6. Significance criteria ratings will be supported, where possible, through reference to threshold criteria, management standards and objectives. Where management standards or threshold criteria do not exist, significance criteria will be defined and justifications for the criteria will be provided.	Part B	7.4.2.8 Significance Thresholds for Residual Effects	7.4-9
7.4.5 Cumulative Effects Assessment	An assessment of the proposed Project's potential contributions to cumulative effects on marine transportation and use will be provided following the procedures established in Section 4.5.	Part B	7.4.8 Assessment of Cumulative Effects	7.4-88
7.4.6 Conclusion	This section of the Application will include a brief summary of the predicted residual Project effects and cumulative effects on marine transportation and use, and a conclusion on the significance of these effects.	Part B	7.4.12 Conclusion	7.4-104

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
7.5 Community He	alth and Wellbeing				
7.5.1 Introduction	This section of the Application will introduce the community health and wellbeing assessment, describe the rationale for its selection as a VC, and identify linkages to other sections of the Application (e.g., infrastructure and services).	Part B	7.5.1 Introduction	7.5-1	
7.5.2 Scope of Assessment	The community health and wellbeing assessment will focus on: • health infrastructure and services (includes counselling services),	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
	health outcome indicators,	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
	community and family cohesion,	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
	community health, and	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
	 diet and nutrition (related to country foods). 	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
	The assessment will include the potential proposed Project effects on community health factors in local communities including Kitimat, Kitamaat Village, and Terrace where community health and wellbeing may be affected directly or indirectly because of the proposed Project and project personnel. If available, anecdotal information regarding volunteerism will be considered in the Application.	Part B	7.5.2.4 Selection of Effects	7.5-4	
		Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4	
		Part B	7.5.2.6 Boundaries	7.5-5	
	The Application will include a description of any legislation, guidelines, BMP,	Part B	7.5.2.1 Regulatory and Policy Setting	7.5-1	
	and guidance documents that are relevant to minimizing effects on community health.	Part B	7.5.4.1 Justification of Interaction Rankings	7.5-30	
	It will also expand on the rationale for the spatial boundaries identified in Table 4.2-1 and Table 4.2-2.	Part B	7.5.2.6.1 Spatial Boundaries	7.5-5	
	Technical boundaries, which include limitations in scientific information, data analyses, and interpretation, will also be through the assessment process.	Part B	7.5.2.6.3 Administrative and Technical Boundaries	7.5-7	
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	7.5.2.2 Consultations' Influence on the Identification of Issues and the Assessment Process	7.5-3	
		Part B	7.5.2.3 Traditional Knowledge and Traditional Use Incorporation	7.5-3	

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7.5.3 Baseline	The Application will describe the approach and methods used to collect	Part B	7.5.3.1 Baseline Data Sources	7.5-9
Conditions	baseline data required to support the assessment, and will identify the sources of this information.		Socio-Economic Baseline Report	
	It will characterize baseline conditions, and will include information relating to:	Part B	7.5.3.2.1 Health Care Infrastructure and Services	7.5-10
	 local health services and infrastructure, 		Socio-Economic Baseline Report	
	 community health determinants/indicators, 	Part B	7.5.3.2.3 Community Cohesion and Resilience	7.5-16
		Part B	7.5.3.2.4 Factors Affecting Families	7.5-19
		Part B	7.5.3.2.5 Diet and Nutrition	7.5-22
	 statistical indicators of dysfunctional families and weakness in community controls, and 	Part B	7.5.3.2.3 Community Cohesion and Resilience	7.5-16
		Part B	7.5.3.2.4 Factors Affecting Families	7.5-19
	 health data such as birth and death rates, disease incidence, accident rates. 	Part B	7.5.3.2.2 Physical and Mental Health Outcomes	7.5-14
	Community health and wellbeing conditions will be described using existing and publicly available literature and other data sources, where appropriate.	Part B	7.5.3 Baseline Conditions	7.5-9
	Discussions with representatives from appropriate government departments/agencies (municipal, aboriginal and provincial) and other organizations (e.g., Aboriginal Groups and community organizations) will be completed.	Part B	7.5.3 Baseline Conditions	7.5-9
7.5.4 Effects	This section of the Application will describe the specific approach and	Part B	7.5.2 Scope of Assessment	7.5-1
Assessment	methods used to determine the proposed Project effects on community health and wellbeing conditions, including criteria used for characterizing Project	Part B	7.5.2.7 Residual Effects Description Criteria	7.5-7
	effects and predicting their significance. Interactions with potential to result in effects of concern (see Table 4.4-1) will be carried forward into this analysis.	Part B	7.5.2.8 Significance Thresholds for Residual Effects	7.5-9
		Part B	7.5.4 Project Interactions	7.5-28
		Part B	7.5.5.1 Analytical Methods	7.5-32

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	This section of the Application will present an assessment of potential adverse	Part B	7.5.2.5 Selection of Measurable Parameters	7.5-4
	effects of the proposed Project on community health and wellbeing during construction, operation and decommissioning. Table 7.5-1 provides a summary of the potential effects of the proposed Project on community health that will be assessed, and the measurable parameters that will be used to	Part B	7.5.5.2.1 Description of Project Effect Mechanisms for Change in Community Health and Wellbeing	7.5-32
	quantify these effects.	Part B	7.5.5.3.1 Description of Project Effect Mechanisms for Change in Diet and Nutrition	7.5-42
		Part B	7.5.6.2.1 Description of Project Effect Mechanisms for Change in Diet and Nutrition	7.5-46
		Part B	Table 7.5-2 Potential Effects on Community Health and Wellbeing and Measurable Parameters	7.5-4
	Mitigation measures designed to reduce or avoid predicted effects will be described, and any relevant management plans will be referenced.	Part B	7.5.5.2.2 Mitigation for Change in Community Health and Wellbeing	7.5-35
		Part B	7.5.5.3.2 Mitigation for Change in Diet and Nutrition	7.5-43
		Part B	7.5.6.2.2 Mitigation for Change in Diet and Nutrition	7.5-46
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context	Part B	7.5.5.2.3 Characterization of Change Community Health and Wellbeing	7.5-36
	of the potential effects, as outlined in Section 4.4.4.	Part B	7.5.5.3.3 Characterization of Change in Diet and Nutrition	7.5-43
		Part B	7.5.6.2.3 Characterization of Change in Diet and Nutrition	7.5-47
		Part B	7.5.7 Summary of Project Residual Effects	7.5-49
		Part B	7.5.5.2.3 Characterization of Change Community Health and Wellbeing	7.5-36
		Part B	7.5.5.3.3 Characterization of Change in Diet and Nutrition	7.5-43

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		Part B	7.5.6.2.3 Characterization of Change in Diet and Nutrition	7.5-47
		Part B	7.5.7 Summary of Project Residual Effects	7.5-49
	The significance of residual effects will be determined, as outlined in Section 4.4.6. Significance criteria ratings will be supported, where possible,	Part B	7.5.5.2.4 Determination of Significance for Change in Community Health and Wellbeing	7.5-42
	significance criteria will be defined and justifications for the criteria will be	Part B	7.5.5.3.4 Determination of Significance for Change in Diet and Nutrition	7.5-44
		Part B	7.5.6.2.4 Determination of Significance for Change in Diet and Nutrition	7.5-48
7.5.5 Cumulative Effects Assessment	An assessment of the proposed Project's potential contributions to cumulative effects on community health and wellbeing will be provided following the procedures established in Section 4.5.	Part B	7.5.8 Assessment of Cumulative Effects	7.5-49
7.5.6 Conclusion	This section of the Application will include a conclusion regarding the potential residual Project effects and cumulative effects on community health and wellbeing and the significance of these effects.	Part B	7.5.5.4 Summary	7.5-45
		Part B	7.5.6.3 Summary	7.5-48
		Part B	7.5.7 Summary of Project Residual Effects	7.5-49
		Part B	7.5.8.4 Summary of Cumulative Effects	7.5-59
		Part B	7.5.12 Conclusion	7.5-66
7.6 Summary of Pot	ential Social Effects			
7.6 Summary of Potential Social	The Application will provide a summary table of residual Project effects on the social VCs similar to the one used for residual environmental effects	Part B	7.6 Summary of Assessment of Potential Social Effects	7.6-1
Effects	(Table 5.10-1).	Part B	Table 7.6-1 Summary of Project Residual Effects on Infrastructure and Services	7.6-1
		Part B	Table 7.6-2 Summary of Project Residual Effects on Visual Quality	7.6-5
		Part B	Table 7.6-3 Summary of Project Residual Effects on Marine Transportation and Use	7.6-7
		Part B	Table 7.6-4 Summary of Project Residual Effects on Community Health and Wellbeing	7.6-11

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	A summary of cumulative effects of the proposed Project on the social VCs	Part B	7.6 Summary of Potential Social Effects	7.6-1
	will be provided in this section.	Part B	7.6.1.2 Summary of Cumulative Social Effects on Infrastructure and Services	7.6-3
		Part B	7.6.2.2. Summary of Cumulative Social Effects on Visual Quality	7.6-6
		Part B	7.6.3.2 Summary of Cumulative Social Effects on Marine Transportation and Use	7.6-9
	Part B	7.6.4.2 Summary of Cumulative Social Effects on Community Health and Wellbeing	7.6-11	
8 Assessment of	Potential Heritage Effects			
8.1 Heritage Backg	round			
8.1 Heritage Background	This section of the Application will provide information on the archaeological and heritage background of the proposed Project site. It will include a high-level summary description of the ethnography, ethno-history and history of the area, as well as a discussion of archaeological site potential. This summary will be expanded on in Section 8.2.3.	Part B	8.1 Heritage Background	8-1
8.2 Archaeological	and Heritage Resources			
8.2.1 Introduction	The Application will introduce the archaeological and heritage assessment,	Part B	8.2.1 Introduction	8-1
	describe the rationale for its selection as a VC, and identify linkages to other sections of the Application.	Part B	8.2.2.1 Regulatory and Policy Setting	8-2
8.2.2 Scope of	The archaeological and heritage resources assessment will focus on	Part B	8.2.1 Introduction	8-1
Assessment	resources that are legally protected from alterations of any kind by the Heritage Conservation Act namely:	Part B	8.2.2.1 Regulatory and Policy Setting	8-2
	• historic sites,	Part B	8.2.2.4 Selection of Effects	8-3
		Part B	8.2.2.7 Residual Effects Description Criteria	8-6
		Part B	8.2.3.2 Baseline Overview	8-10
		Part B	8.2.10 Summary of Mitigation Measures	8-37

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	 archaeological sites, and 	Part B	8.2.1 Introduction	8-1
		Part B	8.2.2.1 Regulatory and Policy Setting	8-2
		Part B	8.2.2.4 Selection of Effects	8-3
		Part B	8.2.2.6 Boundaries	8-4
		Part B	8.2.2.7 Residual Effects Description Criteria	8-6
		Part B	8.2.2.8 Significance Thresholds for Residual Effects	8-8
		Part B	8.2.4.1 Justification of Interaction Rankings	8-26
		Part B	8.2.5.1 Analytical Methods	8-28
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary of Project Residual Effects	8-32
		Part B	8.2.10 Summary of Mitigation Measures	8-37
		Part B	8.2.11 Conclusion	8-38
	■ CMTs.	Part B	8.1 Heritage Background	8-1
		Part B	8.2.2.4 Selection of Effects	8-3
		Part B	8.2.2.5 Selection of Measurable Parameters	8-4
		Part B	8.2.2.6 Boundaries	8-4
		Part B	8.2.2.7 Residual Effects Description Criteria	8-6
		Part B	8.2.3.2 Baseline Overview	8-10
		Part B	8.2.4.1 Justification of Interaction Rankings	8-26
		Part B	8.2.5 Assessment of Residual Effects from the LNG Facility	8-28
		Part B	8.2.5.2 Assessment of Damage or Removal of CMTs	8-29
		Part B	8.2.6 Summary of Project Residual Effects	8-32

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		Part B	8.2.7.1 Summary of Cumulative Effects	8-35
		Part B	8.2.8 Prediction Confidence and Risk	8-35
		Part B	8.2.11 Conclusion	8-38
	The Application will include a description of legislation, guidelines, BMP, and	Part B	8.2.2.1 Regulatory and Policy Setting	8-2
	guidance documents that are relevant to the protection and management of these archaeological resources.	Part B	8.2.2.6 Boundaries	8-4
	It will also expand on the rationale for the spatial boundaries identified in	Part B	8.2.2.6 Boundaries	8-4
	Table 4.2-1 and Table 4.2-2.	Part B	8.2.2.7 Residual Effects Description Criteria	8-6
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	8.2.2.3 Traditional Knowledge and Traditional Use Incorporation	8-3
8.2.3 Baseline Conditions	Provincial archaeological site records accessed through the Archaeology Branch's Remote Access to Archaeological Data online application	Part B	8.2.3.1 Baseline Data Sources	8-9
	Previous local archaeological assessments	Part B	8.2.3.2 Baseline Overview	8-10
	Detailed AIA field work, to be carried out in 2013 and 2014 at the proposed Project terminal site and in the immediately surrounding area as part of the environmental assessment activities, in accordance with the British Columbia Archaeological Impact Assessment Guidelines, and under a Heritage Inspection Permit (HIP 2013-0149) issued by the BC Archaeology Branch pursuant to Section 14 of the Heritage Conservation Act.	Part B	8.2.3.2 Baseline Overview	8-10
	Consultation with knowledgeable individuals associated with the local museum and/or historical society, if available.	Part B	8.2.10 Summary of Mitigation Measures	8-37
8.2.4 Effects	The Application will describe the specific approach and methods used to	Part B	8.2.4 Project Interactions	8-25
Assessment	determine the proposed Project effects on archaeological and heritage resources, including criteria used for characterizing Project effects and determining their significance. Interactions with potential to result in effects of concern, (see Table 4.4-1) will be carried forward into this analysis.	Part B	8.2.4.1 Justification of Interaction Rankings	8-26

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	The Application will present an assessment of potential effects of the	Part B	8.2.4 Project Interactions	8-25
	proposed Project on archaeological and heritage resources identified in the AIA, during construction, operation, and decommissioning phases.	Part B	8.2.4.1 Justification of Interaction Rankings	8-26
	Table 8.2-1 provides a summary of the potential effects of the proposed Project on archaeological and heritage resources that may be assessed,	Part B	8.2.5 Assessment of Residual Effects from the LNG Facility	8-28
	depending on the results of the AIA, and the measurable parameters that will be used to quantify these effects.	Part B	8.2.5.1 Analytical Methods	8-28
		Part B	8.2.5.2 Assessment of Damage to or Removal of CMTs	8-29
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary of Project Residual Effects	8-32
		Part B	Table 8.2-1 Potential Project Effects on Archaeological and Heritage Resources and Measurable Parameters	8-4
	Mitigation measures designed to reduce or avoid predicted effects will be	Part B	8.2.4.1 Justification of Interaction Rankings	8-26
	described, and any relevant management plans will be referenced.	Part B	8.2.5.1 Analytical Methods	8-28
		Part B	8.2.5.2 Assessment of Damage to or Removal of CMTs	8-29
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary Project Residual Effects	8-32
		Part B	8.2.7.1 Summary of Cumulative Effects	8-35
		Part B	8.2.8 Prediction Confidence and Risk	8-35
		Part B	8.2.9 Follow-up Program and Compliance Monitoring	8-36
		Part B	8.2.10 Summary of Mitigation Measures	8-37
		Part B	8.2.11 Conclusion	8-38

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	The residual effects of the proposed Project will be characterized by the	Part B	8.2.4.1 Justification of Interaction Rankings	8-26
	magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4.	Part B	8.2.5.2 Assessment of Damage to or Removal of CMTs	8-29
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary of Project Residual Effects	8-32
		Part B	8.2.7.1 Summary of Cumulative Effects	8-35
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided.	Part B	8.2.5 Assessment of Residual Effects from the LNG Facility	8-28
		Part B	8.2.5.1 Analytical Methods	8-28
		Part B	8.2.5.2 Assessment of Damage to or Removal of CMTs	8-29
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary of Project Residual Effects	8-32
		Part B	8.2.8 Prediction Confidence and Risk	8-35
	The significance of residual effects will be determined, as outlined in Section 4.4.6.	Part B	8.2.5 Assessment of Residual Effects from the LNG Facility	8-28
		Part B	8.2.5.1 Analytical Methods	8-28
		Part B	8.2.5.2 Assessment of Damage to or Removal of CMTs	8-29
		Part B	8.2.5.3 Alteration or Removal of Terrestrial Archaeological or Heritage Sites	8-30
		Part B	8.2.6 Summary of Project Residual Effects	8-32
8.2.5 Cumulative	An assessment of cumulative effects to archaeological and heritage resources	Part B	8.2.7 Assessment of Cumulative Effects	8-35
Effects Assessment	will be provided following the procedures established in Section 4.5.	Part B	8.2.7.1 Summary of Cumulative Effects	8-35
		Part B	8.2.6 Summary of Project Residual Effects	8-32

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8.2.6 Conclusion	This section of the Application will include a brief summary of the predicted	Part B	8.2.7.1 Summary of Cumulative Effects	8-35
	residual Project effects and cumulative effects on archaeological and heritage resources, and a conclusion on the significance of these effects.	Part B	8.2.11 Conclusion	8-38
8.3 Summary of Asse	essment of Potential Heritage Effects			
8.3 Summary of Assessment of	The Application will provide a summary table of residual Project effects on the archaeological and heritage resources VC similar to the one used for residual	Part B	8.3 Summary of Assessment for Potential Heritage Effects	8-39
Potential Heritage Effects	environmental effects (Table 5.10 1).	Part B	Table 8.3-1 Summary of Project Residual Effects on Archaeological and Heritage Resources	8-40
	A summary of cumulative effects of the proposed Project on archaeological	,	8.2.7.1 Summary of Cumulative Effects	8-35
	and heritage resources will also be provided in this section.		8.3.2 Summary of Cumulative Heritage Effects	8-41
9 Assessment of P	otential Health Effects			
9.1 Health Backgroun	nd			
9.1 Health Background	This section of the Application will include a description of the existing health environment in the proposed Project and surrounding areas, to provide a general understanding of the region surrounding the proposed Project. More details will be provided in the baseline section of each VC chapter.	Part B	9.1 Health Background	9-1
9.2 Human Health		<u>'</u>		
9.2.1 Introduction	The Application will introduce the human health risk assessment (HHRA) and	Part B	9.2.1 Introduction	9-1
	describe the rationale for the inclusion of human health as a VC.	Part B	9.2.2.1 Regulatory and Policy Setting	9-2
		Part B	9.2.2.1.1 Air Quality	9-3
9.2.2 Scope of	The human health assessment will focus on:	Part B	9.2.2.4 Selection of Effects	9-5
Assessment	 Air contaminants from project air emissions (both carcinogenic and non- carcinogenic), and 	Part B	9.2.2.1.2 Water Quality	9-3
	Chemicals from historic contamination of sediment, soil or groundwater	Part B	9.2.2.1.3 Soil Quality	9-3
	(both carcinogenic and non-carcinogenic).	Part B	9.2.2.1.4 Sediment Quality	9-4
		Part B	9.2.2.4 Selection of Effects	9-5

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
	The HHRA will focus on issues associated with sensitive human receptors	Part B	9.2.2.6.1 Spatial Boundaries	9-6	
	(i.e., young, elderly, and people with pre-existing conditions or diseases) as a result of activities or emissions that occur during the construction, operation	Part B	9.2.2.6.2 Temporal Boundaries	9-11	
	and decommissioning phases of the proposed Project.	Part B	9.2.2.1.1 Air Quality	9-3	
	The HHRA will evaluate potential effects arising from exposure to airborne	Part B	9.2.2.1.5 Food Quality	9-4	
	contaminants from the facility and shipping traffic and will consider potential changes in the quality of country foods. Where possible, information for this	Part B	9.2.2.5 Selection of Measurable Parameters	9-5	
	assessment will be drawn from other VCs (e.g., air quality, surface water quality, vegetation).	Part B	9.2.2.1 Regulatory and Policy Setting	9-2	
	The Application will include a description of legislation, guidelines, BMP, and guidance documents that are relevant to minimizing effects on human health.	Part B	9.2.2.6.1 Spatial Boundaries	9-6	
	It will also expand on the rationale for the spatial boundaries identified in	Part B	9.2.2.6.2 Temporal Boundaries	9-11	
	Table 4.2-1 and Table 4.2-2.	Part B	9.2.2.3 Traditional Knowledge and Traditional Use Information	9-5	
	The Application will describe how TK and TU information as obtained through consultation with Aboriginal Groups and other sources was used in the assessment.	Part B	9.2.2.3 Traditional Knowledge and Traditional Use Incorporation	9-5	
9.2.3 Baseline Conditions	The baseline conditions for measurable parameters relevant to air and marine effects to human health will be described in the Application.	Part B	9.2.3.1 Baseline Data Sources	917	
	Baseline conditions related to air quality, marine water quality, and sediment	Part B	9.2.3.2 Baseline Overview	9-17	
	quality will be presented. Information will be obtained from literature, existing data sources, and marine water and sediment quality, and air quality baseline	Part B	9.2.3.2.1 Air Quality	9-17	
	reports. To minimize duplication of information, references will be made to	Part B	9.2.3.2.2 Marine Water Quality	9-18	
	relevant sections of the air quality and marine resources VCs where appropriate. As necessary, communications or interviews with representatives	Part B	9.2.3.2.3 Sediment Quality	9-18	
	from the BC MOE and Ministry of Health will be carried out to fill data gaps.	Part B	9.2.3.2.4 Country Foods	9-20	
		Part B	9.2.4 Project Interactions	9-21	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page	
9.2.4 Effects Assessment	The Application will describe the specific approach and methods used to determine the proposed Project effects on human health from development	Part B	9.2.4.1.1 Change in Human Health Risk from Degraded Drinking Water Quality	9-23	
	and operation of the LNG terminal and shipping activities. This will include criteria used for characterizing Project effects and determining their significance. The HHRA will follow standard risk assessment guidance from	Part B	9.2.4.1.2 Change in Human Health Risk from Ingestion of Contaminated Country Foods	9-24	
	Health Canada. Interactions with potential to result in effects of concern (see Table 4.4-1) will be carried forward into this analysis.	Part B	9.2.4.1.3 Change in Human Health Risk from Degraded Air Quality	9-27	
		Part B	9.2.5 Assessment of Residual Effects from the LNG Facility	9-27	
	The Application will present an assessment of potential adverse effects of the proposed Project on human health during construction, operation, and decomplissioning phases. Table 9.2.1 provides a summary of the potential	Part B	9.2.6 Assessment of Residual Effects from Shipping	9-57	
	decommissioning phases. Table 9.2 1 provides a summary of the potential effects of the proposed Project on human health that will be assessed, and the measurable parameters that will be used to quantify these effects.	Part B 9.2.5.2.2 Mitigation for Change in Human Healt Risk from Degraded Air Quality	9-30		
	Mitigation measures designed to reduce or avoid predicted effects will be described, and relevant management plans will be referenced.	Part B	9.2.5.2.3 Characterization of Change in Human Health Risk from Degraded Air Quality	9-30	
	The residual effects of the proposed Project will be characterized by the magnitude, geographic extent, duration, frequency, reversibility, and context of the potential effects, as outlined in Section 4.4.4	Part B	9.2.5.2.5 Determination of Significance for Change in Human Health Risk from Degraded Air Quality	9-57	
		Part B	9.2.7 Summary of Project Residual Effects	9-57	
	A summary of residual effects and an assessment of their significance, likelihood and a confidence prediction, based on Table 4.4-3 will be provided. The significance of residual effects will be determined, as outlined in Section 4.4.6.	Part B	9.2.8 Assessment of Cumulative Effects	9-60	
9.2.5 Cumulative Effects Assessment	An assessment of the proposed Project's potential contributions to cumulative human health effects will be provided following the procedures established in Section 4.5.	Part B	9.2.9 Prediction of Confidence and Risk	9-68	
9.2.6 Conclusion	This section of the Application will include a brief summary of the predicted	Part B	9.2.11 Summary of Mitigation Measures	9-71	
	residual Project effects and cumulative effects on human health, and a conclusion on the significance of these effects.	Part B	9.2.12 Conclusion	9-71	

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AIR Section	Description of Requirements of Relevant Section and Subsection	Volume	Section	Page
9.3 Summary of As	sessment of Potential Health Effects			
9.3 Summary of	The Application will provide a summary table of residual Project effects on	Part B	9.3 Summary of Potential Health Effects	9-71
Assessment of Potential Health Effects	human health similar to the one used for residual environmental effects (Table 5.10 1).	Part B	Table 9.3-1 Summary of Project Residual Effects on Human Health	9-72
		Part B	9.3.2 Summary of Cumulative Health Effects	9-72
	A summary of cumulative effects of the proposed Project on human health will be provided in this section.	Part B	9.3.2 Summary of Cumulative Health Effects	9-72
10 Accidents or M	alfunctions			
10 Accidents or Malfunctions	This section of the Application will assess the effects of potential accidents or malfunctions related to the proposed Project, including an explanation of how those events were identified, and potential consequences (including potential environmental effects).	Part B	10.2.1 Potential Accidents and Malfunctions Scenarios	10-5
		Part B	10.2.2 Assessment Method	10-6
		Part B	10.3 Spills of Hazardous Materials (Facility-Related)	10-9
		Part B	10.4 Loss of Containment of LNG in the LNG Processing Area and Storage Site, or Loading Lines	10-18
		Part B	10.5 Emergency LNG Facility Shutdown	10-26
		Part B	10.6 Explosion and/or Fire	10-30
		Part B	10.7 Vessel Grounding or Collision	10-39
	The Application will assess the effects of potential accidents or malfunctions on all the VCs considered for inclusion in the Application as listed in Table 4.4 1 of the AIR. Spatial boundaries for the assessment of Accidents or Malfunctions scenarios encompass the total area over which all valued components (VCs) may be affected and will be defined in the Application for each VC.	Part B	10.2.2 Assessment Method	10-6
	The specific accidents or malfunctions to be considered in the Application include:	Part B	10.3 Spills of Hazardous Materials (Facility-Related)	10-9
	 spills of hazardous materials (not including LNG) 			

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	 loss of containment of LNG in the plant process area or storage tanks 	Part B	10.4 Loss of Containment of LNG in the LNG Processing Area and Storage Site, or Loading Lines	10-18
	 emergency LNG facility shutdown (includes emergency flaring) 	Part B	10.5 Emergency LNG Facility Shutdown	10-26
	explosion and/or fire	Part B	10.6 Explosion and/or Fire	10-30
	 marine vessel grounding 	Part B	10.7 Vessel Grounding or Collision	10-39
	 marine vessel collisions (i.e., with the wharf and non-tug assisted vessel or a marine mammal). This will include a loss of cargo where applicable 	Part B	10.7 Vessel Grounding or Collision	10-39
	For each event, the Application will include: a description of the potential event.	Part B	10.3.1 Scenario Description (Spills of Hazardous Materials (Facility-Related))	10-9
		Part B	10.4.1 Scenario Description (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-18
		Part B	10.5.1 Scenario Description (Emergency LNG Facility Shutdown)	10-26
		Part B	10.6.1 Scenario Description (Explosion and/or Fire)	10-30
		Part B	10.7.1 Scenario Description (Vessel Grounding or Collision)	10-40
	 the methodology for assessing the potential risk of each event, 	Part B	10.2.2 Assessment Method	10-6
	 definitions for each category of likelihood and consequence, 	Part B	10.2.2 Assessment Method	10-6
	 the assessment of the probability of the event occurring , 	Part B	10.3.1 Scenario Description (Spills of Hazardous Materials (Facility-Related))	10-9
		Part B	10.4.1 Scenario Description (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-18
		Part B	10.5.1 Scenario Description (Emergency LNG Facility Shutdown)	10-26

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		Part B	10.6.1 Scenario Description (Explosion and/or Fire)	10-30
		Part B	10.7.1 Scenario Description (Vessel Grounding or Collision)	10-40
	the identification of proposed mitigation measures to reduce the	Part B	10.1.1 Prevention of Accidents and Malfunctions	10-2
	likelihood of the event,	Part B	10.3.2 Project Design Measures to Reduce Risk and Consequences (Spills of Hazardous Materials (Facility-Related))	10-10
		Part B	10.4.2 Project Design Measures to Reduce Risk and Consequences (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-20
		Part B	10.5.2 Project Design Measures to Reduce Risk and Consequences (Emergency LNG Facility Shutdown)	10-26
		Part B	10.6.2 Project Design Measures to Reduce Risk and Consequences (Explosion and/or Fire)	10-31
		Part B	10.7.2 LNG Carrier Design Measures to Reduce Rish and Consequences (Vessel Grounding or Collision)	10-42
	the assessment of effects and/or consequences that may result from such events,	Part B	10.3.4 Potential Residual Effects (Spills of Hazardous Materials (Facility-Related))	10-12
		Part B	10.4.4 Potential Residual Effects (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-21
		Part B	10.5.4 Potential Residual Effects (Emergency LNG Facility Shutdown)	10-27
		Part B	10.6.4 Potential Residual Effects (Explosion and/or Fire)	10-33
		Part B	10.7.4 Potential Residual Effects (Vessel Grounding or Collision)	10-46

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	the identification of emergency response measures to mitigate the	Part B	10.1.2 Emergency Response Planning	10-4	
	effects/consequences,	Part B	10.3.3 Response Measures (Spills of Hazardous Materials (Facility-Related))	10-11	
		Part B	10.4.3 Response Measures (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-21	
		Part B	10.5.3 Response Measures (Emergency LNG Facility Shutdown)	10-27	
		Part B	10.6.3 Response Measures (Explosion and/or Fire)	10-33	
		Part B	10.7.3 Response Measures (Vessel Grounding or Collision)	10-45	
	 the conclusions on the potential risk of the accident or malfunction, including determination of significance as required in section 19 (1)(a) and (b) of CEAA 2012, and 	Part B	10.3.4 Potential Residual Effects (Spills of Hazardous Materials (Facility-Related))	10-12	
		Part B	10.4.4 Potential Residual Effects (Loss of Containment of LNG in the LNG Processing and Storage Site, or Loading Lines)	10-21	
		Part B	10.5.4 Potential Residual Effects	10-27	
		Part B	10.6.4 Potential Residual Effects	10-33	
		Part B	10.7.4 Potential Residual Effects	10-46	
		Part B	10.8 Cumulative Effects of Accidents or Malfunctions	10-59	
	 a cumulative effects assessment as required in section 19 (1)(a) of CEAA 2012 and consistent with CEAA's Operational Policy Statement titled "Assessing Cumulative Environmental Effects under the Canadian Environmental Assessment Act, 2012" (May 2013). 	Part B	10.8 Cumulative Effects of Accidents or Malfunctions	10-59	

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11 Effects of the En	vironment on the Project			
11 Effects of the Environment on the Project	This section of the Application will consider the effects of the following natural	Part B	11.3 Climate Change	11-3
	events on the proposed Project: extreme weather (i.e., temperature, precipitation, flooding, wind and		11.4 Extreme Weather Events	11-9
	waves),		11.5 Seismic Activity and Tsunamis	11-15
	 seismic events and tsunamis, 		11.6 Forest Fires	11-18
	forest fires, and			
	 predicted climate change effects during the project lifecycle on sea-level rise, precipitation and temperatures. Where relevant and possible, the implications of such climate induced changes to the extreme weather events given above will also be assessed. 			
	The Application will further identify:	Part B	11.1 Spatial and Temporal Boundaries	11-1
	 the methodology for assessing the potential risk of an event, the assessment of effects and/or consequences that may result from such hazard , the identification of measures to mitigate the effects/consequences, and the conclusions on the potential risk of the effects of the environment to the proposed Project. Where applicable, the probability of occurrence of natural hazards will be identified based on provincial and/or national codes and standards, or LNG 		11.2 Methods	11-2
			11.3.1 Environmental Factors	11-3
			11.3.2 Description of Effect Mechanism	11-7
			11.3.3 Mitigation Measures	11-7
			11.3.4 Potential Effects on the Project	11-8
			11.4.1 Environmental Factors	11-9
	Canada design factors.		11.4.2 Description of Effect Mechanism	11-11
			11.4.3 Mitigation Measures	11-12
			11.4.4 Potential Effects on the Project	11-14
			11.5.1 Description of Effect Mechanism	11-16
			11.5.2 Mitigation Measures	11-16
			11.5.3 Potential Effects on the Project	11-17
			11.6.1 Future Projections of Forest Fires	11-18
			11.6.2 Description of Effect Mechanism	11-19
			11.6.3 Mitigation Measures	11-19

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			11.6.4 Potential Effects on the Project	11-19
			11.7 Conclusion	11-20
12 Summary of Pro	posed Environmental and Operational Management Plans			
12 Summary of	This section of the Application will provide a list and comprehensive	Part B	12.1 Environmental Management Program	12-1
Proposed Environmental and Operational	description of the Environmental Management and Operational Plans for construction and operation of the Project. This will include the identification of any mitigation measures described in previous sections that will be included in		12.1.1 Construction and Operations Environmental Management Program	12-2
Management Plans	the plans.		12.2 Decommissioning Environmental Management Program	12-7
PART C – ABORIGIN	IAL GROUPS INFORMATION REQUIREMENTS			
13 Aboriginal Back	ground			
13.1 Background				
13.1 Background	Provide available background information including a map that identifies Indian Reserves, Aboriginal communities and asserted or traditional territories, for Aboriginal Groups, and	Part C	13.1.1.1 Haisla Nation Traditional Territory	13-2
		Part C	Figure 13.1-1 Haisla Traditional Territory	13-3
	3 · · · · · · · · · · · · · · · · · · ·	Part C	13.1.3.1 Gitga'at First Nation Traditional Territory	13-16
		Part C	Figure 13.1-3: Gitga'at Traditional Territory	13-17
		Part C	11.7 Conclusion 12.1 Environmental Management Program 12.1.1 Construction and Operations Environmental Management Program 12.2 Decommissioning Environmental Management Program 13.1.1.1 Haisla Nation Traditional Territory Figure 13.1-1 Haisla Traditional Territory 13.1.3.1 Gitga'at First Nation Traditional Territory	13-22
		Part C	Figure 13.1-4: Gitxaala Traditional Territory	13-23
		Part C	13.1.5.1 Kitselas First Nation Traditional Territory	13-29
		Part C	Figure 13.1-5: Kitselas Traditional Territory	13-30
		Part C		13-35
		Part C	Figure 13.1-6: Kitsumkalum Traditional Territory	13-36
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		Part C	13.1.8.1 Metlakatla First Nation Traditional Territory	13-48
		Part C	Figure 13.1-8 Metlakatla Traditional Territory	13-49
13.1 Background	Summarize relevant available information on ethnography, language, land use	Part C	13.1.1 Haisla Nation	13-2
	setting and planning, governance, economy and reserves.	Part C	13.1.2 Tsimshian Cultural Overview	13-11
		Part C	13-16	
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		Part C	13.1.5 Kitselas First Nation	13-29
		Part C	13.1.6 Kitsumkalum First Nation	13-35
		Part C	13.1.7 Lax Kw'alaams First Nation	13-41
		Part C	13.1.8 Metlakatla First Nation	13-48
		Part C	13.1.9 Métis Nation British Columbia	13-54
13.2 Consultation Ad	ctivities			
13.2 Consultation Activities	 This section of the Application will include: An overview of the approved Aboriginal Consultation Plan, prepared pursuant to paragraph 14.1.1 of the section 11 Order 	Part C		13-56
13.2 Consultation Activities	 A summary of proposed changes to the Aboriginal Consultation Plan resulting from the Aboriginal Groups feedback, or experience from consultation to date 	Part C		13-58
13.2 Consultation Activities	 Any relevant consultation activities completed prior to entering the assessment process 	Part C		13-59
		Part C	13.2.2.1 Haisla Nation	13-59
		Part C	13.2.2.2 Gitga'at First Nation	13-63
		Part C	13.2.2.3 Gitxaala Nation	13-67
		Part C	13.2.2.4 Kitselas First Nation	13-71
		Part C	13.2.2.5 Kitsumkalum First Nation	13-74

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		Part C	13.2.2.6 Lax Kw'alaams First Nation	13-76	
		Part C	13.2.2.7 Metlakatla First Nation	13-79	
		Part C	13.2.2.8 Métis Nation British Columbia	13-83	
13.2 Consultation Activities	 Consultation activities conducted in accordance with the section 11 Order and Aboriginal Consultation Plan 	Part C	13.2.2 Summary of LNG Canada's Consultation with Aboriginal Groups	13-59	
			13-59		
		Part C	13.2.2.2 Gitga'at First Nation	13-63	
		Part C	13.2.2.3 Gitxaala Nation	13-67	
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		Part C	13.2.2.5 Kitsumkalum First Nation	13-74	
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		Part C	13.2.2.7 Metlakatla First Nation	13-79	
		Part C	13.2.2.8 Métis Nation British Columbia	13-83	
13.2 Consultation Activities	 A summary of the proposed approach for consulting with Aboriginal Groups during the review of the Application and for resolving outstanding 	Part C	13.2.3.1 Stage 3 Application Review Phase Consultation	13-83	
	issues	Part C	13.2.3.2 Stage 4 Ongoing Engagement	13-84	
13.2 Consultation Activities	 A summary of key issues and concerns raised by Aboriginal Groups during the preparation of the AIR and Application, how these issues were 	Part C	13.2.4 Key Issues and Concerns Raised by Aboriginal Groups during Stages 1 and 2	13-85	
	addressed and the degree to which LNG Canada considers them to be addressed	Part C	Table 13.2-3 Overview of Key Comments and Concerns provided to LNG Canada by Haisla Nation	13-85	
		Part C	Table 13.2-4 Overview of Key Comments and Concerns provided to LNG Canada by Gitga'at First Nation	13-91	
		Part C	Table 13.2-5 Overview of Key Comments and Concerns provided to LNG Canada by Gitxaala Nation	13-99	

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		Part C	Table 13.2-6 Overview of Key Comments and Concerns provided to LNG Canada by Kitselas First Nation	13-104	
		Part C	Table 13.2-7 Overview of Key Comments and Concerns provided to LNG Canada by Kitsumkalum	13-109	
		Part C	Table 13.2-8 Overview of Key Comments and Concerns provided to LNG Canada by Lax Kw'alaams First Nation	13-115	
		Part C	Table 13.2-9 Overview of Key Comments and Concerns provided to LNG Canada by Metlakatla First Nation	13-119	
14 Aboriginal Interes	ats				
14 Aboriginal Interests	To the extent that this information is shared with the Proponent during consultations or is otherwise publically (sic) available, this section of the Application will: summarize non-confidential past, present and anticipated future uses of the proposed Project area including the frequency and timing of such uses.	Part C	14.13.1.1 Past Use of Aboriginal Interests LSAs	14-27	
		Part C	14.13.1.2 Current Use of LSA #1	14-28	
		Part C	14.13.1.3 Future Use of LSA #1	14-25	
		Part C	14.14.1.1 Past Use of LSA #2	14-51	
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			14.15.1.1 Past Use of LSA #3	14-61	
		Part C	14.15.1.2 Current Use of LSA #3	14-61	
		Part C	14.15.1.3 Future Use of LSA #3	14-73	
14 Aboriginal Interests	 identify Aboriginal Interests that Aboriginal Groups are currently exercising in the vicinity of, or in relation to the area in which the proposed Project is located, including the marine access route, that may be adversely affected by the proposed Project, 	Part C	14.6 Selection of Effects	14-8	
14 Aboriginal Interests	describe how the current exercise of identified Aboriginal Interests by Aboriginal Groups may be adversely affected by the proposed Project. This would include a discussion of:	Part C	14.11.2 LNG Facility-Related Interactions in LSA #1	14-22	

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	with the exercise of Aboriginal Interests	Part C	14.14.1 Baseline Information	14-51
		Part C	14.15.1 Baseline Information	14-61
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14 Aboriginal Interests	 any residual and cumulative effects related to the proposed Project on VCs assessed in Part B and associated with the exercise of Aboriginal Interests 	Part C	14.13.4 Characterization of Residual Effects on Haisla Nation Harvesting-Related Aboriginal Interests	14-40
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14 Aboriginal Interests	 the extent to which the proposed Project would affect Aboriginal Groups' access to and use of the area in which the proposed Project is located to exercise their Aboriginal Interests 	Part C	14.13.4 Characterization of Residual Effects on Haisla Nation Harvesting-Related Aboriginal Interests	14-40	
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	 any special characteristics or unique features of the area in which the proposed Project is located and its surroundings that are associated 	Part C	Table 14.13-1: Haisla Nation Harvesting Activity in LSA #1	14-28	
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14 Aboriginal Interests	describe or summarize (if described elsewhere in the Application)	Part C	14.13.3 Mitigation Measures	14-37	
	measures proposed to avoid, mitigate, or otherwise manage potential adverse effects on identified Aboriginal Interests,		14.14.3 Mitigation Measures	14-58	
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	consultation process regarding avoidance, mitigation, or other management measures proposed to address potential adverse effects on identified Aboriginal Interests,	Part C	14.29.1 Expressed by Aboriginal Groups on Mitigation Measures	14-156		
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14 Aboriginal Interests	 describe the residual effects and degree to which identified Aboriginal Interests are likely to be adversely affected, and 	Part C	14.13.4 Characterization of Residual Effects on Haisla Nation Harvesting-Related Aboriginal Interests	14-40		
		Part C	14.13.5 Conclusions	14-49		
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		Part C	14.19.5 Characterization of Residual Effects on Aspects of Haisla Nation Traditional Governance Systems within LSA #1.	14-109
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		Part C	14.25.6 Summary of Residual Effects on Aboriginal Spiritual Places Identified by Haisla Nation in LSA #1	14-141	
		Part C	14.26.4 Characterization of Residual Effects on Aboriginal Spiritual Places	14-143	
		Part C	14.27.5 Characterization of Residual Effects on Aboriginal Spiritual Places	14-148	
		Part C	14.27.6 Summary of Residual Effects on Aboriginal Spiritual Places	14-149	
		Part C	14.28 Summary of Project Residual Effects on Aboriginal Interests	14-150	
14 Aboriginal Interests	 describe the views expressed by Aboriginal Groups during the 	Part C	14.29 Views of Aboriginal Groups	14-156	
	consultation process regarding the residual effects and degree to which their exercise of Aboriginal Interests are likely to be adversely affected.	Part C 14.29.2 Views Expressed by Aboriginal Groups on Residual Effects Part C Table 14.29-2 Views Expressed by Aboriginal Groups Regarding Residual Effects	14-157		
				14-157	
14 Aboriginal Interests	Where there is overlap between Aboriginal Interests and a VC, the information	Part C	Table 14.8-1 Spatial Boundaries	14-17	
	from other sections of the Application will be cross-referenced and summarized in the context of the specific Aboriginal Group's Aboriginal Interest.	Part C	14.5 Traditional Knowledge and Traditional Use Information	14-3	
14 Aboriginal Interests	LNG Canada will work with Aboriginal Groups to obtain information on traditional use (TU) and traditional knowledge (TK). If available at the time of writing, LNG Canada will use TU and TK information to inform its understanding of potential effects on Aboriginal Interests.	Part C	14.5 Traditional Knowledge and Traditional Use Information	14-3	

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15 Statutory Require	ements Under CEAA 2012 Section 5(1)(c)			
15 Statutory	Section 5(1)(c) of CEAA 2012 requires, with respect to Aboriginal Groups, an	Part C	15.4 Aboriginal Health	15-5
Requirements under CEAA 2012 Section	assessment of effects occurring in Canada of any change that may be caused to the environment on:	Part C 15.5 Aboriginal Socio-Economic Conditions	15.5 Aboriginal Socio-Economic Conditions	15-12
5(1)(c)	 health and socio-economic conditions, 			
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 physical and cultural heritage, 	Part C	15.6 Environmental Effects on Aboriginal Physical and Cultural Heritage	15-24
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 the current use of lands and resources for traditional purposes, and 	Part C	15.7 Environmental Effects on the Current Use of Lands and Resources for Traditional Purposes	15-32
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 any structure, site or thing that is of historical, archaeological, paleontological, or architectural significance. 	Part C	15.6 Environmental Effects on Aboriginal Physical and Cultural Heritage	15-24
15 Statutory	This section of the Application will:	Part C	15.1 Introduction	15-1
Requirements under CEAA 2012 Section 5(1)(c)	 summarize how section 5(1)(c) effects were considered in the effects assessment in Part B, 	Part C	15.3 Identification of Potential Environmental Effects on Section 5(1)(c) Factors	15-3
15 Statutory Requirements under	 describe or summarize (if described elsewhere in the Application) any environmental effects on section 5(1)(c) factors, including cumulative 	Part C	15.3 Identification of Potential Environmental Effects on Section 5(1)(c) Factors	15-3
CEAA 2012 Section 5(1)(c)	effects,	Part C	15.4.1 Potential Effects, Project Effect Mechanisms and Mitigation Measures (Aboriginal Health)	15-5
		Part C	15.4.2 Project Residual Effects and Cumulative Effects on Aboriginal Health	15-9
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		Part C	15.6.1 Introduction	15-24
		Part C	15.6.2 Potential Effects, Project Effect Mechanisms and Mitigation Measures	15-24
		Part C	15.6.3 Residual Effects and Cumulative Effects on Aboriginal Physical and Cultural Heritage	15-28
		Part C	15.7.1 Potential Effects, Project Effect Mechanisms and Mitigation Measures	15-32
		Part C	15.7.3 Conclusions on Current Use of Lands and Resources for Traditional Purposes.	15-39
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 describe or summarize (if described elsewhere in the Application) measures to avoid, mitigate, or otherwise manage potential environmental effects on section 5(1)(c) factors, 	Part C	Table 15.4-1 Potential Effects, Effect Mechanisms and Mitigation Measures (Aboriginal Health)	15-5
		Part C Table 15.5-1 Potential Effects, Effect Mechanisms and Mitigation Measures (Aboriginal Socio-Economic Conditions)	15-13	
		Part C		15-25
		Part C	15.7.1 Potential Effects, Project Effect Mechanisms and Mitigation Measures	15-32
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 provide a statement articulating LNG Canada's views on whether potential effects on section 5(1)(c) factors have been adequately mitigated, and 	Part C	15.4.4 LNG Canada's Conclusion Regarding the Adequacy of Mitigation Measures (Aboriginal Health)	15-12
		Part C	15.5.4 LNG Canada's Conclusion Regarding the Adequacy of Mitigation Measures (Aboriginal Socio-Economic Conditions)	15-23
		Part C	15.6.5 LNG Canada's Conclusion Regarding the Adequacy of Mitigation Measures (Physical and Cultural Heritage)	15-31

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		Part C	15.7.4 LNG Canada's Conclusion Regarding the Adequacy of Mitigation Measures (Current Use of Lands and Resources for Traditional Purposes)	15-39
15 Statutory Requirements under CEAA 2012 Section 5(1)(c)	 report on views of Aboriginal Groups as provided to LNG Canada. 	Part C	15.9 Views of Aboriginal Groups	15-40
16 Other Matters of 0	Concern to Aboriginal Groups			
16 Other Matters of Concern to Aboriginal Groups	This section the of Application will: identify and describe the potential matters of concern that are not addressed in Part B and/or section 14 or 15 of the Application,	Part C	16.7 Effects of Project-Related Shipping Activities on Aboriginal Archaeological and Heritage Resources	16-7
		Part C	16.8 Effect of Project-Related Displacement of Aboriginal Harvesters	16-10
		Part C	16.9 Effects on Aboriginal People's Perception of Project-Induced Changes in Safety and Environmental Risk	16-13
		Part C	16.10 Availability of Workers, Volunteers, and Traditional Practitioners in Aboriginal Communities	16-15
16 Other Matters of Concern to Aboriginal Groups	 describe or summarize (if described elsewhere in the Application) any measures proposed to avoid, mitigate, or otherwise manage the potential adverse effects on those matters of concern, 	Part C	16.6.3 Mitigation Measures to Address Potential Effects (Availability of Emergency Services in Aboriginal Communities)	16-4
		Part C	16.7.3 Mitigation Measures to Address Potential Effects (Project-Related Shipping Activities on Aboriginal Archaeological and Heritage Resources)	16-8
		Part C	16.8.3 Mitigation Measures to Address Potential Effects (Project-Related Displacement of Harvesters)	16-10

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		Part C	16.9.3 Mitigation Measures to Address Potential Effects (Aboriginal People's Perception of Project-Induced Changes in Safety and Environmental Risk)	16-14	
		Part C	16.10.3 Mitigation Measures to Address Potential Effects (Availability of Workers, Volunteers, and Traditional Practitioners in Aboriginal Communities)	16-16	
16 Other Matters of Concern to Aboriginal Groups	 characterize any residual effects on those matters, 	Part C	16.6.4 Characterization of Residual Effects (Availability of Emergency Services in Aboriginal Communities)	16-6	
		(Project-Related Displacement of Harvesters)	16-8		
			16-11		
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16 Other Matters of	 summarize views expressed by each Aboriginal Group on the proposed 	Part C	16.11 Views of Aboriginal Groups	16-19	
Concern to Aboriginal Groups	mitigation measures where available, and	Part C	Table 16.11-1 Views of Aboriginal Groups on Proposed Mitigation Measures	16-19	
16 Other Matters of Concern to Aboriginal Groups	 provide a conclusion from the perspective of LNG Canada on the adequacy of the proposed mitigation measures to address such potential 	Part C	16.6.5 Conclusion (Availability of Emergency Services in Aboriginal Communities)	16-6	
	matters of concern.	Part C	16.7.5 Conclusion (Project-Related Shipping Activities on Aboriginal Archaeological and Heritage Resources)	16-9	

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		Part C	16.8.5 Conclusion (Project-Related Displacement of Harvesters)	16-13
		Part C	16.9.5 Conclusion (Aboriginal People's Perception of Project-Induced Changes in Safety and Environmental Risk)	16-15
		Part C	16.10.5 Conclusion (Availability of Workers, Volunteers, and Traditional Practitioners in Aboriginal Communities)	16-18
17 Summary of Abor	iginal Groups Information Requirements			
17 Summary of Aboriginal Groups Information Requirements	This section of the Application will include: a table (in the format shown in Table 17-1) that summarizes the potential adverse effects of the proposed Project on Aboriginal Interests and the measures proposed to mitigate those effects. The table will be organized by Aboriginal Group, and	Part C	Table 17.1-1 Summary of Potential Effects of the Project on Aboriginal Interests and Mitigation	17-3
17 Summary of Aboriginal Groups Information Requirements	 an appendix that contains comments received from Aboriginal Groups regarding this part of the Application. 	Part C	Table 17.1-2 Aboriginal Groups Comments on Part C of the Application	17-115
PART D – PUBLIC CO	NSULTATION			
18 Summary of Publ	ic Consultation			
18 Summary of Public	This section of the Application will include:	Part D	18.2 Audience	18-3
Consultation	a list of local governments, residents, property owners, and other rights	Part D	18.2.1 Local and Regional Government	18-3
	holders potentially impacted by the proposed Project,	Part D	18.2.1.1 District of Kitimat	18-3
		Part D	18.2.1.2 City of Terrace	18-5
		Part D	18.2.1.4 Skeena-Queen Charlotte Regional District	18-5
		Part D	18.2.2 Stakeholders	18-5
		Part D	18.2.3 General Public	18-7

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	 maps of the municipalities, private land, tenures/authorizations, and/or residents with respect to the proposed Project, 	Part D	Figure 18.2-1 Land Ownership	18-4
	 background information about each potentially affected municipality and 	Part D	18.2 Audience	18-3
	stakeholder group,	Part D	18.2.1 Local and Regional Government	18-3
		Part D	18.2.2 Stakeholders	18-5
	 an overview of the approved Public Consultation Plan prepared pursuant to paragraph 16.1 of the section 11 Order, including a summary of proposed changes to the Public Consultation Plan resulting from feedback from municipalities, stakeholders and/or individuals, or experience from consultation to date, 	Part D	18.3 Overview of Consultation Plan	18-7
	a summary of LNG Canada's consultation (to date) with the public	Part D	18.4 Summary of Consultation to Date	18-9
	 including: any relevant consultation activities completed before entering the assessment process 	Part D	Table 18.4-1 Summary of Pre-Application Stakeholder and Public Consultation	18-10
		Part D	18.4.2 Community Liaison Officer	18-23
	consultation activities conducted in accordance with the section 11	Part D	18.4 Summary of Consultation to Date	18-9
	Order and Public Consultation Plan	Part D	Table 18.4-1 Summary of Pre-Application Stakeholder and Public Consultation	18-10
	 a summary of the proposed approach for consulting with the public during the review of the Application and for resolving outstanding issue 	Part D	18.6 Proposed Consultation Plan for Application Review Stage	18-41
	 a table (in the format shown in Table 18-1) that summarizes the issues 	Part D	18.5.2 Issue Response Table	18-26
	and concerns related to the proposed Project that were raised by the public and the measures to avoid, reduce or mitigate those effects.	Part D	Table 18.5-1 Issue Response Table	18-27
PART E - CONCLU	ISIONS			
19 Summary of P	roject Residual Effects			
19 Summary of Project Residual Effects	This section of the Application will present a table, in the format of Table 19-1, that provides summary information for each environmental, economic, social, heritage or health effect on the quality or sustainability of a VC that cannot be avoided or mitigated through the re-design or relocation of the proposed Project, or through other Proponent mitigation measures.	Part E	Table 19.0-1: Summary of Project Residual Effects	19-2

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20 Summary of Miti	gation Measures				
20 Summary of Mitigation Measures	This section of the Application will provide a summary, in the form of Table 20-1, of all mitigation measures to prevent or reduce adverse environmental, social, economic, health, and heritage effects.	Part E	Table 20.0-1: Mitigation Measures	20-1	
21 Summary of Foll	ow-up Programs and Compliance Reporting				
21 Summary of	A follow-up program is designed to verify the accuracy of the effects	Part E	21.1 Roles and Responsibilities	21-1	
Follow-up Programs and Compliance Reporting	assessment and to determine the effectiveness of the measures implemented to mitigate the adverse effects of the project. In this section, the Application will provide a summary description of the proposed follow-up programs in	Part E	21.2 Follow-up Programs and Compliance Reporting	21-2	
	sufficient detail to reliably verify predicted effects (or absence of them), and to	Part E	Table 21.2-1 Follow-up Program	21-2	
	confirm both the assumptions and the effectiveness of mitigation.	Part E Table 21.2-2 Compliance Monitoring and Reporting		21-2	
	This section of the Application will provide a clear description of the reporting structure as identified within the EMPs, and monitoring plans. Reference will be made, where applicable, to proposed EAC conditions and monitoring required for all permits, authorizations and licenses once granted.	Part E	21.1 Roles and Responsibilities	21-1	
		Part E	21.2 Follow-up Programs and Compliance Reporting	21-2	
		Part E	Table 21.2-1 Follow-up Program	21-2	
		Part E	Table 21.2-2 Compliance Monitoring and Reporting	21-2	
22 Conclusion					
22 Conclusion	This section of the Application will: • provide a statement on the overall significance of the proposed Project's environmental, economic, social, heritage, and health effects, and its ability to mitigate them,	Part E	22 Conclusion	22-1	
	 provide a statement on the significance of residual effects, or with respect to section 5(1)(c) considerations, a conclusion regarding the adequacy of proposed mitigation measures, 	Part E	22 Conclusion	22-1	
	 request an environmental assessment certificate from the Government of British Columbia and a decision under section 52 of CEAA 2012 from the Canadian Minister of the Environment, and 	Part E	22 Conclusion	22-1	

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	 confirm the need to successfully complete subsequent permitting/authorization processes prior to proceeding with the proposed Project construction, operation, and decommissioning. 	Part E	22 Conclusion	22-1	
23 References					
23 References	This section of the Application will list the references used in preparing the Application.	Part E	23 References	23-1	
24 Appendices					
24 Appendices	Information prepared by professionals and provided under their professional seal will be identified in the Application and the related sealed studies will be included in an Appendix.	Overview	Table 2 List of Standalone Technical Data Reports Related to the Application	cvi	
	The Application will include an appendix that summarizes how all subsection 5(1), 5(2) and 19(1) requirements of CEAA 2012 have been considered as part of the assessment for the purposes of substitution. The summary will be in the table format shown (Table 24-1) and will include:	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 a description of how each environmental effect listed in section 5 of CEAA 2012 was considered in the Application, 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 an explanation of potential environmental effects, including cumulative effects, where relevant, 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 mitigation measures that are being proposed to reduce these effects, 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 significance of residual effects, or with respect to section 5(1)(c) considerations, a conclusion regarding the adequacy of proposed mitigation measures, 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 recommendations from the proponent on any follow-up program elements, 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 how the factors to be considered under section 19(1) of CEAA 2012 were taken into account as part of the assessment and the conclusions drawn for each factor, and 	Part E	Table 24.0-1: Substitution Summary Table	24-2	
	 reference to the section in the Application where additional information requirements addressing sections 5 and 19(1) of CEAA 2012 can be found. 	Part E	Table 24.0-1: Substitution Summary Table	24-2	

Table 2: List of Standalone Technical Data Reports Related to the Application

Standalone Technical Data Report Name	Related Section of the Application
Acoustic Environment Technical Data Report	Section 5.4
Air Quality Technical Data Report	Section 5.2
Archaeology Impact Assessment	Section 8.2
Socio-economic Baseline Report	Section 6.2, 7.2, 7.4, 7.5
Emissions Assessment for Soils and Vegetation Technical Data Report	Section 5.5
Freshwater and Estuarine Fish and Fish Habitat Technical Data Report	Section 5.7
Greenhouse Gas Management Technical Data Report	Section 5.3
Human Health Risk Assessment Technical Data Report	Section 9.2
Marine Resources Technical Data Report	Section 5.8
Surface Water Quality Technical Data Report	Section 5.9
Vegetation Resources Technical Data Report	Section 5.5
Visual Quality Technical Data Report	Section 7.3
Wildlife Resources Technical Data Report	Section 5.6