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TABLE OF CONCORDANCE

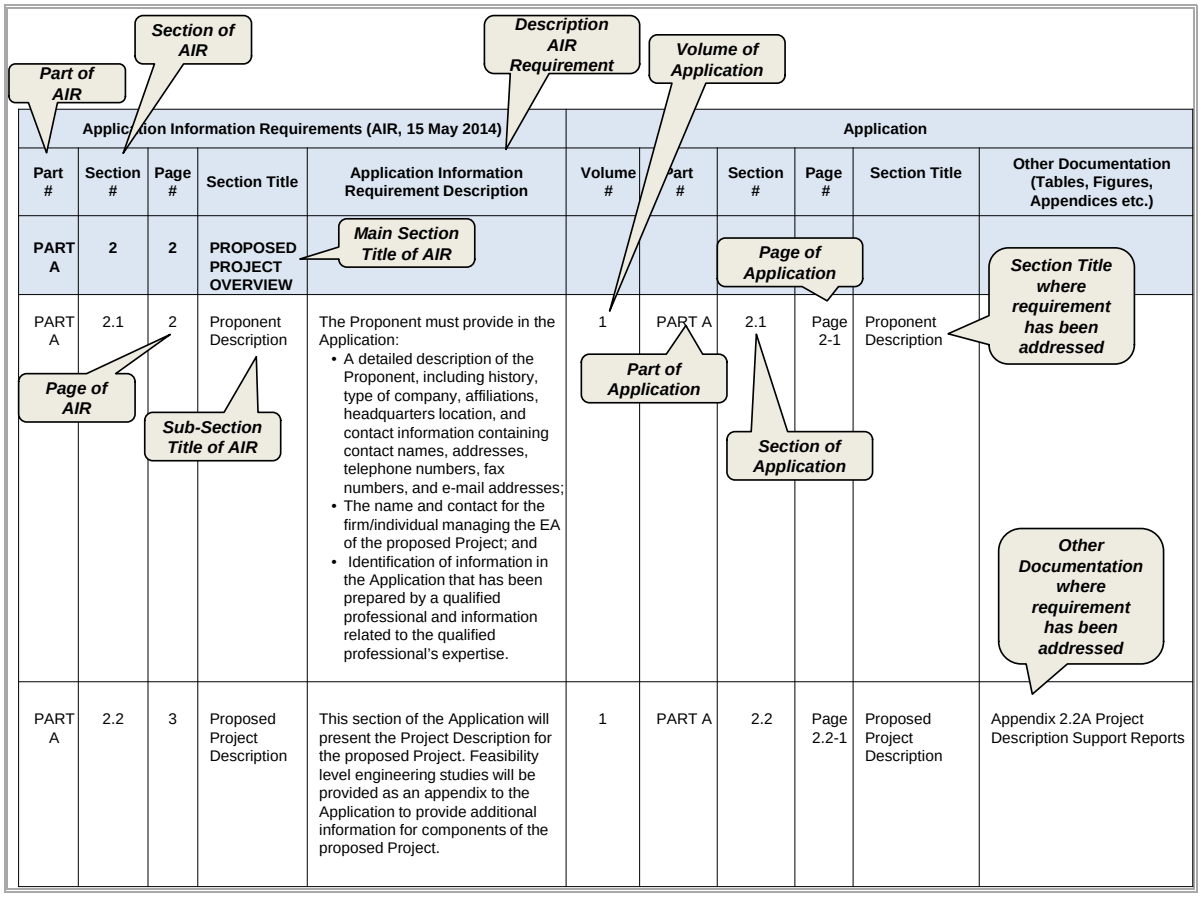
This section provides the two Tables of Concordance required verifying the requirements of the Application Information Requirements (AIR) and the Environmental Impact Statement (EIS) Guidelines have been met.

The intent of the Table of Concordances is to cross-reference the approved AIR and EIS-Guidelines with the Application for an Environmental Assessment Certificate / Environmental Impact Statement (Application) so that information requirements can be readily found in the Application during the screening and conformity review processes. Cross-references include references to sections, sub-sections, tables, figures, and appendices of the Application.

The Tables of Concordances are listed as follows:

- TC-1: Table of Concordance with AIR; and
- TC-2: Table of Concordance with EIS Guidelines.

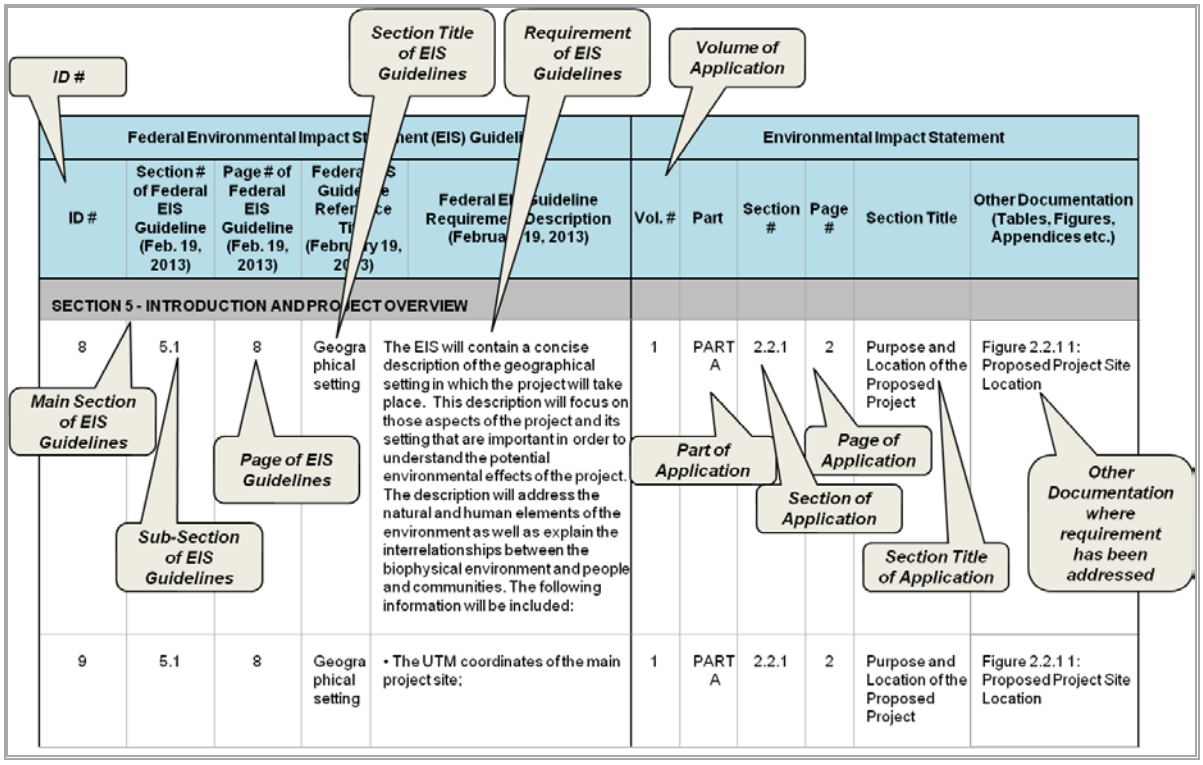
Figure 1 shows an annotated illustration of the Table of Concordance with the AIR. The table presents the requirements from the AIR in direct quotes in the description column in the same order as they are outlined in the approved AIR. Columns on the left side present details on part, section number, page number, section title, and requirements presented in the AIR. Columns on the right present volume, part, section, page numbers, and section title of the Application. Some requirements are also addressed in figures, tables, and appendices to the corresponding section. These references are provided in the column “Other Documentation (Tables, Figures, and Appendices)” of the table.



Application Information Requirements (AIR, 15 May 2014)					Application					
Part #	Section #	Page #	Section Title	Application Information Requirement Description	Volume #	Part #	Section #	Page #	Section Title	Other Documentation (Tables, Figures, Appendices etc.)
PART A	2	2	PROPOSED PROJECT OVERVIEW							
PART A	2.1	2	Proponent Description	The Proponent must provide in the Application: • A detailed description of the Proponent, including history, type of company, affiliations, headquarters location, and contact information containing contact names, addresses, telephone numbers, fax numbers, and e-mail addresses; • The name and contact for the firm/individual managing the EA of the proposed Project; and • Identification of information in the Application that has been prepared by a qualified professional and information related to the qualified professional's expertise.	1	PART A	2.1	Page 2-1	Proponent Description	
PART A	2.2	3	Proposed Project Description	This section of the Application will present the Project Description for the proposed Project. Feasibility level engineering studies will be provided as an appendix to the Application to provide additional information for components of the proposed Project.	1	PART A	2.2	Page 2.2-1	Proposed Project Description	Appendix 2.2A Project Description Support Reports

Figure 1: Illustration of Table of Concordance with AIR

Figure 2 shows an annotated illustration of the Table of Concordance with EIS Guidelines. The table presents the requirements from the EIS Guidelines in direct quotes in the description column in the same order as they are outlined in the approved EIS Guidelines. Columns on the left side present an ID number, section number, page number, section title, and requirements as presented in the EIS Guidelines. Columns on the right present volume, part, section, page numbers, and section title of the Application. Some requirements are also addressed in figures, tables, and appendices to the corresponding section. These references are provided in the column "Other Documentation (Tables, Figures, and Appendices)" of the table.



Federal Environmental Impact Statement (EIS) Guidelines					Environmental Impact Statement					
ID #	Section # of Federal EIS Guideline (Feb. 19, 2013)	Page # of Federal EIS Guideline (Feb. 19, 2013)	Federal EIS Guideline Reference Title (February 19, 2013)	Federal EIS Guideline Requirement Description (February 19, 2013)	Vol. #	Part	Section #	Page #	Section Title	Other Documentation (Tables, Figures, Appendices etc.)
SECTION 5 - INTRODUCTION AND PROJECT OVERVIEW										
8	5.1	8	Geographical setting	The EIS will contain a concise description of the geographical setting in which the project will take place. This description will focus on those aspects of the project and its setting that are important in order to understand the potential environmental effects of the project. The description will address the natural and human elements of the environment as well as explain the interrelationships between the biophysical environment and people and communities. The following information will be included:	1	PART A	2.2.1	2	Purpose and Location of the Proposed Project	Figure 2.2.1 1: Proposed Project Site Location
9	5.1	8	Geographical setting	• The UTM coordinates of the main project site;	1	PART A	2.2.1	2	Purpose and Location of the Proposed Project	Figure 2.2.1 1: Proposed Project Site Location

Figure 2: Illustration of Table of Concordance with EIS Guidelines

TC 1:
Table of Concordance with the Application Information Requirements

TC 1: Table of Concordance with the Application Information Requirements

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1	-	-		TABLE OF CONTENTS	The Table of Contents presented below provides an initial outline of the components, including sections, subsections, list of references, appendices, figures, and tables that will comprise the AIR and the Application. The Application will generally follow this Table of Contents, and discrepancies between the two documents will be identified in the Table of Concordance.	1	-	0	I	TABLE OF CONTENTS	
2	-	-	XVII	TABLE OF CONCORDANCE	This section of the Application will present a table listing each requirement for content and methodological approach in the approved AIR. The table will identify where the requirements have been addressed in the Application, with volume, section, and page references. The Table of Concordance will use the format presented below.	1	-	0	1	TABLES OF CONCORDANCE	
3	-	-	XVIII	PREFACE TO THE APPLICATION	This section of the Application will include: • Statement that the proposed Project is subject to review under the BC EAA and description of the trigger for the review under BC EAA;	1	-	0	1	PREFACE TO THE APPLICATION	
4			XVIII	PREFACE TO THE APPLICATION	• Statement that the proposed Project is subject to a standard assessment under the CEA Act 2012 and why;	1	-	0	1	PREFACE TO THE APPLICATION	
5			XVIII	PREFACE TO THE APPLICATION	• Statement that the proposed Project is subject to a coordinated EA process between the Province of BC and Canada;	1	-	0	1	PREFACE TO THE APPLICATION	
6			XVIII	PREFACE TO THE APPLICATION	• Information on any other EA approval processes that the proposed Project is undergoing (if applicable), especially if they interact or overlap with the CEA Act 2012;	n/a		n/a	n/a	n/a	
7			XVIII	PREFACE TO THE APPLICATION	• Statement that the Application has been developed pursuant to the AIR approved by BC EAO with input from the Agency and that it complies with relevant instructions provided in section 11 Order; and	1		0	1	PREFACE TO THE APPLICATION	
8			XVIII	PREFACE TO THE APPLICATION	• Information identifying the agencies, Aboriginal groups, and other parties involved in the development of the Application.	1		0	2	PREFACE TO THE APPLICATION	
9	-	-	XIX	ACRONYMS	This section of the Application will provide a list of all abbreviations, acronyms and terms used, and their definitions, in the Application. The list provided below refers to terms and abbreviations used in this AIR.	1	-	0	1	ACRONYMS	
10	-	-	XXII	EXECUTIVE SUMMARY	The Executive Summary will include: • A brief description of proposed Blackwater Gold Project (the proposed Project);	1	-	0, Subsection 2.0	2	EXECUTIVE SUMMARY	Figure ES 1: Project Location Figure ES 2: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure ES 3: Mine Site Layout Table ES 1: Project Components and Facilities – Approximate Dimensions and Capacity
11			XXII	EXECUTIVE SUMMARY	• A summary of the assessment of alternatives including reasons for rejecting certain alternatives;	1		0, Subsection 4.0	17	EXECUTIVE SUMMARY	Table ES 3: Alternative Means of Undertaking the Project
12			XXII	EXECUTIVE SUMMARY	• A summary of the consultation undertaken;	1		0, Subsection 5.0	18	EXECUTIVE SUMMARY	Table ES 4: Working Group Members
13			XXII	EXECUTIVE SUMMARY	• A summary of the issues and potential project impacts identified;	1		0, Subsection 6.0	23	EXECUTIVE SUMMARY	Figure ES 9: Aquatic Study Areas Table ES 5: Wetland Loss and Compensation

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14			XXII	EXECUTIVE SUMMARY	• A summary of recommended mitigation measures;	1		0, Subsection 7.0	59	EXECUTIVE SUMMARY	Table ES 6: Proponent's Table of Proposed Mitigation Measures
15			XXII	EXECUTIVE SUMMARY	• A summary of potential cumulative impacts and residual effects;	1		0, Subsection 8.0	62	EXECUTIVE SUMMARY	Table ES 7: Summary of Significance Determination for Residual and Cumulative Effects
16			XXII	EXECUTIVE SUMMARY	• A summary of the follow-up programs proposed (if applicable); and	1		0, Subsection 7.0	59	EXECUTIVE SUMMARY	
17			XXII	EXECUTIVE SUMMARY	• Proponent conclusions resulting from the Environmental Assessment (EA).	1		0, Subsection 8.0	61	EXECUTIVE SUMMARY	
18	**A**	**1**	**1**	**PURPOSE OF THE APPLICATION**							
19	A	1	1	PURPOSE OF THE APPLICATION	New Gold Inc. (the Proponent) must provide a description of the purpose of the Application for an Environmental Assessment (EA) Certificate (the Application), pursuant to section 16 of the British Columbia Environmental Assessment Act (BC EAA).	1	A	1	1-1	PURPOSE OF THE APPLICATION	
20	A	1	1	PURPOSE OF THE APPLICATION	The Proponent intends to submit an Application for the proposed Blackwater Gold Project (the proposed Project). This section of the Application will include the following information: • Identification of the proposed Project and the Proponent; and	1	A	1	1-1	PURPOSE OF THE APPLICATION	
21	A	1	1	PURPOSE OF THE APPLICATION	• Information that demonstrates how the Application fulfills the requirements of the Application Information Requirements (AIR), approved for the proposed Project.	1	A	1	1-1	PURPOSE OF THE APPLICATION	
22	**A**	**2**	**2**	**PROPOSED PROJECT OVERVIEW**							
23	A	2.1	2	Proponent Description	The Proponent must provide in the Application: • A detailed description of the Proponent, including history, type of company, affiliations, headquarters location, and contact information containing contact names, addresses, telephone numbers, fax numbers, and e-mail addresses;	1	A	2.1	2.1-1	Proponent Description	
24	A	2.1	2	Proponent Description	• The name and contact for the firm/individual managing the EA of the proposed Project; and	1	A	2.1, Subsection 2.1.5	2.1-4	Proponent Description	
25	A	2.1	2	Proponent Description	• Identification of information in the Application that has been prepared by a qualified professional and information related to the qualified professional's expertise.	1	A	2.1, Subsection 2.1.1 Subsection 2.1.5	2.1-1	Proponent Description	Table 2.1-1: Primary Authors for the EA
26	A	2.1	2	Proponent Description	The Proponent has provided the following summary for inclusion in the AIR. The Proponent is an international gold producer with operations in Canada, United States (US), Mexico, and Australia, and development projects in Canada and Chile. The Proponent was incorporated under the laws of the Province of British Columbia (BC) on 31 January 1980. The Proponent has corporate offices in Vancouver and Toronto and is listed on the Toronto Stock Exchange and the New York Stock Exchange Market under the symbol NGD. The proposed Project is managed out of the Proponent's Vancouver office. Tim Bekhuys, Environment and Sustainability Director, will be the principal contact person for purposes of the EA. Proponent contact information is as follows: Proposed Project Name: Blackwater Gold Project Proponent: New Gold Inc.	1	A	2.1, Subsection 2.1.1	2.1-1	Proponent Description	

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					Proponent Address: Suite 1800, Two Bentall Centre 555 Burrard Street, Box 212 Vancouver, BC, V7X 1M9 Telephone: (604) 696-4100 Facsimile: (604) 696-4110 Internet: www.newgold.com Principal Contact: Tim Bekhuys, RP Bio, Environment & Sustainability Director E-mail: Tim.Bekhuys@newgold.com Telephone: (604) 696-4100 Facsimile: (604) 696-4110						
27	A	2.1	2	Proponent Description	The Project Management Team for the proposed Project also includes: • New Gold: o Robert Gallagher, President, Chief Executive Officer (CEO) & Director; o Peter Marshall, P.Eng., Project Director – Blackwater; o Nigel Fisher, Environmental Manager; o Paul Hosford, P.Eng., Feasibility Study Director; o Claudette Gouger, Community Manager; o Amber Teed, First Nations Coordinator; and • Sustainability Engineering: o Keith Ferguson, P.Eng., Environment & Permitting Advisor; and • AMEC Environment & Infrastructure (AMEC): o Alvaro Paredes, MPhil, EP, Project Manager. AMEC Environment & Infrastructure (AMEC) has prepared the AIR for the proposed Project and has been retained by the Proponent to lead the preparation of the Application. Where applicable, additional information in the Application that has been prepared by a qualified professional and information related to the qualified professional's expertise will be identified in the Application.	1	A	2.1, Subsection 2.1.1	2.1-1	Proponent Description	
28	A	2.2	3	Proposed Project Description	This section of the Application will present the Project Description for the proposed Project. Feasibility level engineering studies will be provided as an appendix to the Application to provide additional information for components of the proposed Project.	1	A	2.2	2.2-1	Proposed Project Description	Appendix 2.2A: Project Description Supporting Reports (App Volumes 1 to 3)
29	A	2.2	3	Proposed Project Description	The Proponent must state in the Application: • The threshold in the BC Reviewable Projects Regulation (B.C. Reg. 370/02) that has been met such that the proposed Project is required to undergo EA (or description of other mechanism by which the proposed Project entered EA (i.e. section 6 or 7 of the BC EAA);	1	A	2.2, Subsection 2.2.2.1	2.2-8	Proposed Project Description	
30	A	2.2	3	Proposed Project Description	• The known or likely threshold that has been met under the Canadian Environmental Assessment Act, 2012 (CEA Act 2012) Regulations Designating Physical Activities; and	1	A	2.2, Subsection 2.2.2.1	2.2-8	Proposed Project Description	
31	A	2.2	3	Proposed Project Description	• That the Canadian Environmental Assessment Agency (the Agency) has determined that a federal EA is required and that the proposed Project is undergoing a coordinated federal and provincial review process.	1	A	2.2, Subsection 2.2.2.1	2.2-8	Proposed Project Description	
32	A	2.2	3	Proposed Project Description	Pursuant to Part 3 of the BC EAA (Government of BC, 2002a) Reviewable Projects Regulation (Government of BC, 2002c), review is required for the proposed Project because it would constitute a new mine facility with a production capacity greater than 75,000 tonnes per year (t/y) of mineral ore; the proposed Project is expected to have a nominal ore production capacity of 22 million tonnes per year (Mt/y).	1	A	2.2, Subsection 2.2.2.1	2.2-8	Proposed Project Description	

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					The BC Environmental Assessment Office (BC EAO) issued an Order under section 10 of the BC EAA on 5 November 2012 indicating the proposed Project requires an EA Certificate and the Proponent may not proceed with the proposed Project without an assessment (BC EAO, 2012). The proposed Project meets the definition of a designated project under CEA Act 2012 and the schedules of the Regulations Designating Physical Activities (Government of Canada, 2012b) and that the proposed Project Description meets the requirements of the Prescribed Information for a Description of a Designated Project Regulations (Agency, 2012b). The Agency published a Notice of Environmental Assessment Determination on 21 December 2012 indicating that a federal EA is required (Agency, 2012c). The proposed Project is undergoing a coordinated EA review by BC EAO and the Agency.						
33	A	2.2	4	Proposed Project Description	This section of the Application will present the changes made to the proposed Project during the EA process considering consultation conducted with stakeholders and feasibility level engineering studies.	1	A	2.2, Subsection 2.2.2.2	2.2-12	Changes from the Initial Project Description	Table 2.2.2-1: Key Changes Between the Initial Project Description and the EA Project Description
34	A	2.2.1	4	Purpose and Location of the Proposed Project	The Proponent must include in its Application a description of the purpose of the proposed Project (Agency, 2013d).	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	
35	A	2.2.1	4	Purpose and Location of the Proposed Project	The Proponent is proposing to develop an open pit gold and silver mine and ore processing facilities with a nominal milling rate capacity of 60,000 tonnes per day (t/d) (22 Mt/y) over 17 years. The proposed Project is situated approximately 110 kilometres (km) southwest of Vanderhoof (straight-line distance) in central BC, approximately 160 km southwest of Prince George.	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	
36	A	2.2.1	4	Purpose and Location of the Proposed Project	The Application must include a description of the location of the proposed Project and the longitude and latitude of the site.	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line and Freshwater Supply Pipeline
37	A	2.2.1	4	Purpose and Location of the Proposed Project	The Application must include maps showing both regional context (identify nearby communities) and site-specific setting.	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line and Freshwater Supply Pipeline
38	A	2.2.1	4	Purpose and Location of the Proposed Project	The Application must identify the distance to nearby communities and note the communities on the regional map.	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Table 2.2.1-1: Distances to Nearby Communities From the Proposed Project Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline
39	A	2.2.1	4	Purpose and Location of the Proposed Project	The Proponent has provided the following summary for inclusion in the AIR. The proposed Project is located within the traditional territories of First Nations. The mine site is located in the vicinity of several Lhook'uz Dene Nation Indian Reserves (IRs). The closest IR to the mine site is Tatelkus Lake (IR 28, approximately 10 km to the northeast). Other IRs located in the vicinity of the mine site are Kushya Creek (IR 7, 14 km southeast), Tsachla Lake (IR 8, 18 km, south), Kluskus (IR 1, 22 km southeast), and Tzetzi Lake (IR 11, 18 km southwest). The two closest IRs to the proposed transmission line are the Stellaquo 1 Reserve (Stellat'en First Nation) at 3 km to the northeast, and the Seaspunkut 4 Reserve (Nadleh Whut'en First Nation) at 9 km to the northeast of the Kluskus Forest Service Road (FSR). The closest IR to the Kluskus FSR is the Clustalach Reserve 5 (Saik'uz First Nation) at approximately 1.8 km to the east.	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Table 2.2.1-1: Distances to Nearby Communities From the Proposed Project Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline

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					The proposed mine site is centered at 53° 11' 22.872" N 124° 52' 0.437" W (5893000 N and 375400 E) and is located in National Topographic System (NTS) sheet 93F/02) (Figure 2.2 1).						
40	A	2.2.2	6	Project Overview	The Application must include a description of the relevant history of the proposed Project.	1	A	2.2.2, Subsection 2.2.2.1	2.2-8	Project Overview	
41	A	2.2.2	6	Project Overview	The Project Overview will be complemented by feasibility level studies that will be included in an appendix to the Application.	1	A	2.2.2, Subsection 2.2.2.1	2.2-8	Project Overview	Appendix 2.2A: Project Description Supporting Reports (App Volumes 1 to 3)
42	A	2.2.2	6	Project Overview	Mineral exploration activities in the proposed Project area commenced in 1973 by Granges Exploration Ltd. and continue to take place. Richfield Ventures Corporation (Richfield) acquired the Blackwater mineral claims in 2009 and conducted additional drilling and baseline environmental programs. The Proponent purchased Richfield in 2011, acquiring the Blackwater mineral claims, and continued major exploration drilling, metallurgical test work and engineering, and environmental studies. Exploration activities undertaken by the Proponent to support the Preliminary Economic Assessment (PEA) of the proposed Project were completed in mid-May 2012 and involved drilling 449 holes for approximately 160,000 metres (m).	1	A	2.2.2, Subsection 2.2.2.1	2.2-8	Project Overview	
43	A	2.2.2	6	Project Overview	The Proponent's environmental baseline studies began in May 2011 and were conducted until 2013. Results from the environmental baseline studies will be included in the Application.	1	A	2.2.2, Subsection 2.2.2.1	2.2-8	Project Overview	
44	A	2.2.2	6	Project Overview	The Proponent has stated that the main objective of the proposed Project is the economic extraction of the gold and silver resources from the Blackwater deposit. The proposed Project is based on a conventional diesel powered truck-shovel open pit mine, which will feed a 60,000 t/d (22 Mt/y) plant where the ore would be processed by whole ore cyanide leaching. The gold and silver would be recovered into a gold-silver doré product and shipped by air or by road. The proposed Project would represent an annual average production of 507,000 ounces (oz) of gold and 2,039,000 oz of silver during 17 years of operations, and would generate positive economic effects, including employment and business opportunities and tax payments. The main physical activities associated with the proposed Project include the construction, operations, closure, and post-closure of an open pit mine; ore processing facilities; mine waste management facilities; and associated on-site and off-site infrastructure.	1	A	2.2.2, Subsection 2.2.2.1	2.2-8	Project Overview	
45	A	2.2.2	6	Project Overview	This section of the Application will also include a summary of the changes that have been made to the initial proposed Project as described in the Project Description accepted in November 2012 (AMEC, 2012).	1	A	2.2, Subsection 2.2.2.2	2.2-12	Project Overview	Table 2.2.2-1: Key Changes Between the Initial Project Description and the EA Project Description
46	A	2.2.3	6	On-site Components and Infrastructure	The Application must include a description of all on-site components and associated on-site and...	1	A	2.2.3	2.2-17	On-site Components and Infrastructure	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Figure 2.2.3-1: Overall Site Layout of Open Pit and Waste Facilities
47	A	2.2.3	6	On-site Components and Infrastructure	...off-site infrastructure and other facilities associated with the proposed Project and include figures of components.	1	A	2.2.3	2.2-17	On-site Components and Infrastructure	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Figure 2.2.3-1: Overall Site Layout of Open Pit and Waste Facilities

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48	A	2.2.3	6	On-site Components and Infrastructure	The Application must also include a description of the activities associated with construction, operations, and decommissioning of the proposed Project and provide figures of activities.	1	A	2.2.3.2, Subsection 2.2.3.2.16	2.2-104	On-site Components and Infrastructure	Figure 2.2.3-43: Phased Mine Plan End of Year -1 Figure 2.2.3-44: Phased Mine Plan End of Year 1 Figure 2.2.3-45: Phased Mine Plan End of Year 3 Figure 2.2.3-46: Phased Mine Plan End of Year 5 Figure 2.2.3-47: Phased Mine Plan End of Year 10 Figure 2.2.3-48: Phased Mine Plan End of Year 17
49	A	2.2.3	6	On-site Components and Infrastructure	The Proponent has provided the following summary for inclusion in the AIR.	1	A	2.2.3	2.2-17	On-Site Components and Infrastructure	
50	A	2.2.3	6	On-site Components and Infrastructure	Table 2.2 1 presents a summary of the main project components and facilities with their approximate dimensions and capacities as described in the Application.	1	A	2.2.3	2.2-17	On-Site Components and Infrastructure	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity
51	A	2.2.3	6	On-site Components and Infrastructure	It is anticipated that materials required on-site will be transported along the Kluskus-Ootsa FSR will include the following: • Reagents for gold extraction (e.g. cyanide); • Reagents for laboratory analytical work; • Lime for pH control; • Flocculants and coagulants; • Grinding balls for rock crushing; • Mill liners; • Tires; • Fuel, oil, and lubricants for equipment maintenance; and • Explosives and blasting agents. Other materials may be added as the proposed Project evolves.	1	A	2.2.3, Subsection 2.2.3.8 and Subsection 2.2.3.3.7	2.2-235 2.2-141	On-Site Components and Infrastructure	Table 2.2.3-38: Inbound Volumes by Project Area Table 2.2.3-39: Inbound Volumes – Mining Equipment Figure 2.2.3-88: Inbound Volumes by Quarter Figure 2.2.3-89: Inbound Volumes – Mining Equipment Figure 2.2.3-91: Inbound Volumes of Fuel per Quarter
52	A	2.2.3	8	On-site Components and Infrastructure	An overview of information on the following proposed Project facilities will be presented in the Application with details present in an appendix. • Open pit: o Description of the open pit development plan including pit phases;	1	A	2.2.3, Subsection 2.2.3.2.3	2.2-78	On-site Components and Infrastructure	Figure 2.2.3-43: Phased Mine Plan End of Year -1 Figure 2.2.3-44: Phased Mine Plan End of Year 1 Figure 2.2.3-45: Phased Mine Plan End of Year 3 Figure 2.2.3-46: Phased Mine Plan End of Year 5 Figure 2.2.3-47: Phased Mine Plan End of Year 10 Figure 2.2.3-48: Phased Mine Plan End of Year 17 Appendix 2.2A-9: Feasibility Open Pit Slope Design (Knight Piésold Ltd.) (App Volume 2) Appendix 2.2A-10: Open Pit Water Management Plan (Knight Piésold Ltd.) (App Volume 3)
53	A	2.2.3	8	On-site Components and Infrastructure	o Pit designs including slopes, design standards and geotechnical and hydrogeological considerations;	1	A	2.2.3, Subsection 2.2.3.2.4	2.2-79	On-site Components and Infrastructure	Figure 2.2.3-39: Pit Slope Recommendations Appendix 2.2A-9: Feasibility Open Pit Slope Design (Knight Piésold Ltd.) (App Volume 2)
54	A	2.2.3	8	On-site Components and Infrastructure	o Description of proposed pit water management including inflow diversions and wall dewatering;	1	A	2.2.3, Subsection 2.2.3.5.2.6.3	2.2-204	On-site Components and Infrastructure	Appendix 2.2A-10: Open Pit Water Management Plan (Knight Piésold Ltd.) (App Volume 3) Figure 2.2.3-85: Pit Dewatering System
55	A	2.2.3	8	On-site Components and Infrastructure	o Description of conceptual instrumentation and monitoring of the pit during operations; and	1	A	2.2.3, Subsection 2.2.3.2.4.2.3	2.2-82	On-site Components and Infrastructure	Appendix 2.2A-9: Feasibility Open Pit Slope Design (Knight Piésold Ltd.) (App Volume 2) Appendix 2.2A-10: Open Pit Water Management Plan (Knight Piésold Ltd.) (App Volume 3)
56	A	2.2.3	8	On-site Components and Infrastructure	o Description of geohazards influences on the pit.	1	A	2.2.3, Subsection 2.2.3.4.7	2.2-171	On-site Components and Infrastructure	Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)
57	A	2.2.3	9	On-site Components and Infrastructure	• Waste rock dumps, low grade ore stockpile, and topsoil stockpile: o Feasibility level geotechnical investigation and design;	1	A	2.2.3, Subsection 2.2.3.2	2.2-64	On-site Components and Infrastructure	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd) (App Volume 1)

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58	A	2.2.3	9	On-site Components and Infrastructure	o Foundation conditions including foundation angle and soil properties;	1	A	2.2.3, Subsection 2.2.3.2.9 Subsection 2.2.3.2.11 Subsection 2.2.3.4.8	2.2-68	On-site Components and Infrastructure	Table 2.2.3-12: Waste Dump and LGO Stockpile Stability Rating Summary
59	A	2.2.3	9	On-site Components and Infrastructure	o Feasibility level geotechnical stability assessment including preliminary factors of safety;	1	A	2.2.3, Subsection 2.2.3.2.9	2.2-86	On-site Components and Infrastructure	Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)
60	A	2.2.3	9	On-site Components and Infrastructure	o Water management features including description of seepage control measures for the waste rock dumps and low grade stockpile;	1	A	2.2.3, Subsection 2.2.3.5.2.6	2.2-202	On-site Components and Infrastructure	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd) (App Volume 1)
61	A	2.2.3	9	On-site Components and Infrastructure	o Conceptual plan for any proposed instrumentation or monitoring;	1	A	2.2.3, Subsection 2.2.3.2.9	2.2-86	On-site Components and Infrastructure	
62	A	2.2.3	9	On-site Components and Infrastructure	o Failure modes effects assessment for each facility;	1	A	2.2.3, Subsection 2.2.3.2.9	2.2-86	On-site Components and Infrastructure	
63	A	2.2.3	9	On-site Components and Infrastructure	o Development sequence for each facility; and	1	A	2.2.3, Subsection 2.2.3.2.16	2.2-104	On-site Components and Infrastructure	
64	A	2.2.3	9	On-site Components and Infrastructure	o Reference to the interim Guidelines of the BC Mine Waste Rock Pile Research Committee.	1	A	2.2.3, Subsection 2.2.3.4.6	2.2-167	On-site Components and Infrastructure	
65	A	2.2.3	9	On-site Components and Infrastructure	• Tailings Storage Facility (TSF): o Feasibility level geotechnical investigation;	1	A	2.2.3, Subsection 2.2.3.4.8	2.2-172	On-site Components and Infrastructure	App 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (Volume 1) Appendix 2.2A-4 Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1)
66	A	2.2.3	9	On-site Components and Infrastructure	o Feasibility level embankment design including heights, slopes, and method of construction;	1	A	2.2.3, Subsection 2.2.3.4.8.4	2.2-180	On-site Components and Infrastructure	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1)
67	A	2.2.3	9	On-site Components and Infrastructure	o Foundation conditions including foundation angle and soil properties;	1	A	2.2.3, Subsection 2.2.3.4.8.4.1	2.2-180	On-site Components and Infrastructure	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1)
68	A	2.2.3	9	On-site Components and Infrastructure	o Description of embankment construction materials and borrow source locations;	1	A	2.2.3, Subsection 2.2.3.3.4.8 Subsection 2.2.3.4.8.4.1	2.2-150 2.2-180	On-site Components and Infrastructure	Figure 2.2.3-42: Identified Borrow Source Locations
69	A	2.2.3	9	On-site Components and Infrastructure	o Feasibility level geotechnical stability assessment including preliminary factors of safety;	1	A	2.2.3, Subsection 2.2.3.4.8.4	2.2-180	On-site Components and Infrastructure	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)

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70	A	2.2.3	9	On-site Components and Infrastructure	o Description of tailing properties;	1	A	2.2.3, Subsection 2.2.3.4.3	2.2-162	On-site Components and Infrastructure	
71	A	2.2.3	9	On-site Components and Infrastructure	o Conceptual plan for any proposed instrumentation or monitoring;	1	A	2.2.3, Subsection 2.2.3.2.9 Subsection 2.2.3.4.8.4.3.3	2.2-86 2.2-188	On-site Components and Infrastructure	Table 2.2.3-29: TSF Instrumentation Summary
72	A	2.2.3	9	On-site Components and Infrastructure	o Description of any water diversion structures and spillways, including design criteria;	1	A	2.2.3, Subsection 2.2.3.4.8.4	2.2-180	On-site Components and Infrastructure	
73	A	2.2.3	9	On-site Components and Infrastructure	o Description of seepage control and seepage management;	1	A	2.2.3, Subsection 2.2.3.4.8.6	2.2-191	On-site Components and Infrastructure	Figure 2.2.3 81: Environmental Control Dam and Interception Trenches Figure 2.2.3 82: Site C West Dam Seepage Control
74	A	2.2.3	9	On-site Components and Infrastructure	o Description of geohazards that could influence the TSF; and	1	A	2.2.3, Subsection 2.2.3.4.7	2.2-171	On-site Components and Infrastructure	Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)
75	A	2.2.3	9	On-site Components and Infrastructure	o Reference to the Canadian Dam Association, Dam Safety Guidelines including consequence classification, seismic design criteria, and inflow design flood criteria. The TSF will act as the main water storage facility for ore processing. In addition to the TSF, the construction of a freshwater reservoir is proposed, which will serve the double purpose of supplying make-up water to the plant and provide freshwater for fish habitat mitigation. The design of this facility will follow the Canadian Dam Association Dam Safety Guidelines and will be presented in the Application.	1	A	2.2.3, Subsection 2.2.3.4.7.3	2.2-172	On-site Components and Infrastructure	
76	A	2.2.3	10	On-site Components and Infrastructure	If sediment ponds are required during the construction phase, these will be clearly identified in the Application.	1	A	2.2.3, Subsection 2.2.3.4.8.2	2.2-178	On-site Components and Infrastructure	Table 2.2.3-30: Sediment Control Pond Locations and Discharge Strategies Figure 2.2.3-83: Project Catchment Area Boundaries
77	A	2.2.3	10	On-site Components and Infrastructure	Given the large size and the disseminated nature of mineralization within the proposed Project footprint, open pit mining is the only feasible option for economic extraction of the ore. The current reserve estimate indicates combined Proven and Probable total reserves of 8.17 million ounces (Moz) of gold and 60.8 Moz of silver at a 0.3 grams per tonne (g/t) gold equivalent cut-off grade (New Gold, 2014). Ore would be processed in a mill to be constructed north of the open pit. Tailings from the mill will be treated by a sulphur dioxide (SO2)/air treatment plant to destroy cyanide prior to disposal in the TSF. The Proponent has stated that cyanide management and treatment will follow International Cyanide Management Code (ICMC) for the Manufacture, Transport, and Use of Cyanide in the Production of Gold (International Cyanide Management Institute (ICMI), 2012). Geochemical characterization of the waste rock has been conducted and it is proposed that potentially acid generating (PAG) (PAG 1 and PAG 2) waste rock and high solid phase zinc concentration non–acid generating (NAG) (NAG 3) waste rock be disposed under water in the TSF or in the open pit. NAG waste rock with solid phase zinc concentrations less than 600 parts per million (ppm) (NAG 4 and NAG	1	A	2.2.3	2.2-17	On-site Components and Infrastructure	

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					5) would be deposited on land, covered with overburden, and re-vegetated at closure.						
78	A	2.2.3	10	On-site Components and Infrastructure	The Application will explain that the location of the mine waste storage facilities was primarily selected based on discussions with local Aboriginal groups and the Proponent's environmental analysis as per the Guidelines for the Assessment of Alternatives for Mine Waste Disposal (Environment Canada (EC), 2011). Specifically, the TSF avoids the Blackwater River drainage to the south, whitebark pine (listed on schedule 1 of the Species at Risk Act (SARA)) to the south, and the Ungulate Winter Range (UWR) to the west.	1	A	2.2.3	2.2-17	On-site Components and Infrastructure	Figure 2.2.3 1: Overall Site Layout of Open Pit and Waste Facilities
79	A	2.2.3	10	On-site Components and Infrastructure	The Application will explain that the location of the mine waste storage facilities was confirmed with condemnation drilling conducted within the proposed mine site. Figure 2.2 2 presents the location of the proposed mine site, transmission line corridor, and access roads. Figure 2.2 3 provides the general orientation of the plant facilities and layout within the entire mine footprint. Figure 2.2 4 provides the specific location details and relationships of the plant and on-site infrastructure.	1	A	2.2.3, Subsection 2.2.3.1.10.9	2.2-44	On-site Components and Infrastructure	Figure 2.2.3-16: Condemnation Drilling Locations Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure 2.2.3-64: Plant Site Location Figure 2.2.3-65: General Arrangement End of Year -2 Plan Figure 2.2.3-66: General Arrangement End of Year -1 Plan Figure 2.2.3-67: General Arrangement End of Year 1 Plan Figure 2.2.3-68: General Arrangement End of Year 3 Plan Figure 2.2.3-69: General Arrangement End of Year 8 Plan Figure 2.2.3-70: General Arrangement End of Year 17 Plan
80	A	2.2.4	14	Off-site Infrastructure	The Proponent has provided the following summary information for inclusion in the AIR. The Kluskus-Ootsa FSR is an existing road that will be used as the transportation route to access the proposed mine site. This FSR starts on Highway 16 at Engen and will connect to the proposed mine access road at km 124.5. The proposed mine access road will be approximately 15 km long (Figure 2.2 2). Goods to be transported on highways and FSRs will be checked against federal transportation of dangerous goods (TDG) classifications under the Canadian Transportation of Dangerous Goods Act (TDG Act) and Regulations. Each substance listed under TDG Act as dangerous will be listed in the Application together with transport volumes and on-hand volumes. A preliminary Hazardous Materials Management Plan will be developed and presented in the Application, which will include a description of management practices for the TDG. TDGs will be undertaken according to applicable international, federal, and provincial; guidelines, acts and regulations including, but not limited to, the ICMC (ICMI, 2012); EC's Environmental Code of Practice for Metal Mines (EC, 2009); Canadian TDG Act and Regulations, and BC TDG Act and Regulations. The manufacturing, transport, storage, and use of cyanide will adhere to the ICMC and follow EC's Environmental Code of Practice for Metal Mines.	1	A	2.2.4, Subsection 2.2.4.5	2.2-249	Off-site Infrastructure	Figure 2.2.4-1: Kluskus-Ootsa FSR Upgrade Table 2.2.4 4: On Hand and Transportation Volumes for Dangerous Goods
81	A	2.2.4	14	Off-site Infrastructure	A 133-km transmission line connecting the mine site with an existing substation south of the community of Endako will be required to provide power to the proposed Project. The transmission line alignment presented in Figure 2.2 2 was selected as the preferred	1	A	2.2.4, Subsection 2.2.4.4	2.2-263	Off-site Infrastructure	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) Figure 2.2.1-1: Proposed Mine Site Location with

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					alternative among six different options. The assessment of alternatives will be presented in Section 2.5 Alternative Means for Undertaking the Project of the Application. The preferred alignment was selected out of six alternatives based on the existence of a sub-station at Endako (which avoids the need for a new facility), and current land use (the existing corridor runs largely along Crown land and minimizes overprinting private parcels and Federal Lands). Where the transmission line will cross the Stellako River and at the Tatelkuz Lake Resort, alternative re-routes are considered for the assessment. The re-route at the Stellako River suggests an alignment closer to the existing BC Hydro transmission line. At the Tatelkuz Lake Resort the re-route option does not follow the Kluskus FSR to avoid potential effects on the existing Tatelkuz airstrip. Both re-routes will be included in the effects assessment in the Application.						Mine Access Road, Transmission Line, and Freshwater Supply Pipeline
82	A	2.2.4	14	Off-site Infrastructure	Freshwater requirements will be met by pumping water from Tatelkuz Lake via a 20 km long pipeline to a receiving area within the mine site. This water will be used for ore processing and flow maintenance in Davidson Creek.	1	A	2.2.4, Subsection 2.2.4.3	2.2-257	Off-site Infrastructure	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline
83	A	2.2.4	14	Off-site Infrastructure	An airstrip will be built in the proximity of the mine site, with location selected in consideration of existing land use, access, and environmental conditions.	1	A	2.2.4, Subsection 2.2.4.2.9	2.2-257	Off-site Infrastructure	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline
84	A	2.2.5	14	Environmental Management System and Adaptive Management Approach	The Application will include a summary of the Environmental Management System (EMS) and adaptive management approach for the proposed Project. An EMS will be used for the planning and implementation of project activities in accordance with applicable environmental regulations and those specific requirements identified in the project certificate of approval to operate. These plans and the adaptive management system will be developed to ensure consistent management of the following waste materials associated with the proposed Project and will be described in greater detail in the Application:	1	A	2.2.5	2.2-268	Environmental Management System and Adaptive Management Approach	
85	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	• Atmospheric emissions from point and fugitive sources from mining and ore processing activities and general vehicle movements;	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
86	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	• Mine site water, managed in the following ways during each phase of the proposed Project: o Mitigation measures for any expected exceedances of guidelines predicted by water quality modelling will be detailed in the Application document to a conceptual engineering level;	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
87	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	o During construction the mine site would be managed to ensure downstream water quality and aquatic values were protected;	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
88	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	o During operations, process water and mine site surface drainage would be managed to prevent surface water discharges. Water in contact with the mine facilities, including the NAG waste dumps, the open pit, and low-grade stockpile, would be collected and either conveyed to the TSF or the open pit; and	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
89	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	o During post-closure the mine site would discharge to local streams once water meets closure effluent permit discharge limits;	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	

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90	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	• Domestic solid and liquid waste from the accommodation camp;	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
91	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	• Solid mine waste consisting of overburden not suitable or required for construction and reclamation activities, waste rock, and tailings (mine waste management is described above); and	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
92	A	2.2.5	15	Environmental Management System and Adaptive Management Approach	• Hazardous wastes would be stored in appropriate temporary storage areas and removed from site for recycling or disposal as per applicable law.	1	A	2.2.5, Subsection 2.2.5.1	2.2-270	Environmental Management System and Adaptive Management Approach	
93	A	2.2.6	15	Project Schedule	The Application must provide a description of the capital construction phase and the length or lifetime of the proposed Project in years.	1	A	2.2.6	2.2-270	Project Schedule	Table 2.2.6-1: Project Schedule Table 2.2.6-2 : Project Activities by Phase Associated with the Mine Site Table 2.2.6-3: Project Activities by Phase Associated with Off-Site Facilities
94	A	2.2.6	15	Project Schedule	The Application will also describe how seasonal factors will be considered in the proposed Project schedule.	1	A	2.2.6	2.2-270	Project Schedule	
95	A	2.2.6	15	Project Schedule	The Proponent has provided the following information for inclusion in the AIR. The Proponent has completed a Feasibility Study in the fourth quarter of 2013 and the Application is expected to be submitted in the second quarter of 2014. Provincial and federal decisions are expected during 2015. The construction phase of the proposed Project is expected to take two years. With the current resource estimates, approximately 361 Mt of ore are to be mined and processed at a rate of 60,000 t/d (22 Mt/y). The operations phase is expected to continue for 17 years. The closure phase will start once the operations are finished and will end once the mine site starts discharging water back to the environment. The closure phase is expected to last 18 years. The post-closure phase will commence once the closure activities are completed.	1	A	2.2.6	2.2-270	Project Schedule	
96	A	2.3	16	Provincial Scope of Proposed Project	This section of the Application will include a description of the scope of the proposed Project to be assessed in the Application (pursuant to the section 11 Order). Based on the section 11 Order, as amended by an Order under section 13 (BC EAO, 2014), BC EAO defines the scope of the proposed Project as consisting of the following on-site and off-site components and activities in the area shown in Figure 2.2 2 [...].	1	A	2.3	2.3-1	Provincial Scope of the Proposed Project	Appendix 2.3B: Order Under Section 11 (App Volume 3)
97	A	2.3	16	Provincial Scope of Proposed Project	• Mine site; • Open pit; • Overburden and waste rock dumps; • Ore and low grade ore stockpile; • Topsoil stockpiles, borrow pits; • Construction laydown area; • TSF and associated structures; • Water management structures, including site runoff, ditches, diversion, and sediment and erosion control; • Plant site and facilities, including mill, conveyors, crushers; • Construction and operations camps; • Core logging area; • Explosives manufacturing and storage facilities; • Hazardous material storage and distribution; • On-site infrastructure, facilities and services including:	1	A	2.3	2.3-1	Provincial Scope of the Proposed Project	

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98	A	2.3	16	Provincial Scope of Proposed Project	o Electrical substation and distribution; o Mine haul and access roads; o Truck shop; o Equipment and fuel storage areas and facilities; o Communications network; o Laboratories; o Safety and environmental control; o Potable water distribution and treatment; o Sewage treatment and disposal facilities; o Waste disposal facilities; o Non-hazardous waste incinerator; o Backup power generation facilities; o Gravel washing; o Screening and cement batch plants; o Maintenance; o Administration and warehouse facilities; o Emergency response facilities; and o Fire water distribution; • Water supply intake, pump stations, pipeline, equipment and associated access roads; • Electric transmission line connecting the mine site with an existing substation and related access roads; • Potential upgrades to Kluskus and Ootsa FSRs; • Transportation of workers, materials, and equipment along the FSRs to the mine site; • On site roads, site access roads, and new road to connect mine site with the existing FSRs; and • Other transportation infrastructure to service the proposed Project including potential airstrip, helicopter pad, and related facilities.	1	A	2.3	2.3-1	Provincial Scope of the Proposed Project	
99	A	2.4	17	Federal Scope of Assessment of the Proposed Project	This section of the Application will include a description of the scope of the proposed Project to be assessed in the federal Environmental Impact Statement (EIS) as per the EIS Guidelines (Agency, 2013b). The scope of the proposed Project for the purposes of the EA includes the components, activities, and federal decisions in the Project Description accepted by BC EAO and approved by the Agency in November 2012 (AMEC, 2012). The Proponent will consider all the components, activities, and federal decisions identified within these sections and the Project Description document as part of the effects assessment.	1	A	2.4	2.4-1	Federal Scope of Assessment of the Proposed Project	Appendix 2.4A: Project Determination Letters (App Volume 3) Appendix 2.4B: Environmental Impact Statement Guidelines, 19 February 2013 (App Volume 3)
100	A	2.4	17	Federal Scope of Assessment of the Proposed Project	Based on the EIS Guidelines, the Agency defines the scope of the proposed Project to be assessed as the construction, operations, closure, and post-closure of the following project components [...]	1	A	2.4	2.4-1	Federal Scope of Assessment of the Proposed Project	Appendix 2.4B: Environmental Impact Statement Guidelines, 19 February 2013 (App Volume 3)
101	A	2.4	17	Federal Scope of Assessment of the Proposed Project	• An open-pit mine; • Waste rock and overburden dumps (NAG and PAG); • Low grade ore stockpile; • Sewage water management facilities; • Construction laydown area; • Truck shop; • Fuel storage facilities; • Storage of dangerous goods other than oils and gas; • TSF; • Processing plant facility; • Explosives manufacturing and storage facility; • Construction and operations camps;	1	A	2.4	2.4-1	Federal Scope of Assessment of the Proposed Project	Appendix 2.4B: Environmental Impact Statement Guidelines, 19 February 2013 (App Volume 3)

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					• Top soil stockpiles; • Core logging area; • Airstrip and air transportation service buildings; • Railway line/spur2; • Transload facility ; • Water supply intake, pump stations, pipeline, and associated access roads; • Temporary or permanent water diversions; • Waste storage and disposal (hazardous and non-hazardous); • Sedimentation/settling ponds; • Power generator; • Transmission line and right-of-way (ROW) and associated access roads; • Temporary access roads during construction; and • Mine access road.						
102	A	2.4	17	Federal Scope of Assessment of the Proposed Project	Based on the information provided in the Project Description, federal authorities may be required to exercise a power or perform a duty or function (other than under the CEA Act 2012). Section 2.9 of the Application will describe potential federal and provincial permits and licences and authorizations required for the proposed Project.	1	A	2.4	2.4-1	Federal Scope of Assessment of the Proposed Project	
103	A	2.5	18	Alternative Means of Undertaking the Proposed Project	The alternative means of undertaking the proposed Project corresponds to specific Project components, whose location or type were subject to an assessment of alternatives using technical, economic, environmental and social criteria, including how Aboriginal groups were considered. The Application will include the specific Project components subject to an assessment of alternatives, which are identified and briefly described in Table 2.5 1.	1	A	2.5, Subsection 2.5.1	2.5-1	Alternative Means of Undertaking the Proposed Project	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives
104	A	2.5	18	Alternative Means of Undertaking the Proposed Project	• Mine waste management; Mine waste would consist of overburden, waste rock, and tailings. Five potential locations for storage of mine waste were identified within 10 km of the deposit area.	1	A	2.5, Subsection 2.5.10	2.5-30	Alternative Means of Undertaking the Proposed Project	Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
105	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Main project access: The Proponent assessed different alternatives for road access to and from the proposed mine site from Highway 16 (between Prince George and Fraser Lake) and Highway 97 (between Prince George and Quesnel) (refer to Figure 2.2 2). The alternatives were assessed considering the presence of the existing FSRs versus the potential need for new roads or bridges where access was not available.	1	A	2.5, Subsection 2.5.15	2.5-46	Alternative Means of Undertaking the Proposed Project	Figure 2.5.15-1: Access Road Alternatives
106	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Mine site access: Two different options were considered: the utilization of the existing exploration road or the development of a new road. The new road option was selected as it reduces distance to the mine site and avoids the UWR.	1	A	2.5, Subsection 2.5.16	2.5-49	Alternative Means of Undertaking the Proposed Project	Figure 2.5.16-1: Mine Access Options
107	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Transmission Line: The proposed Project requires electrical power and interconnection to the BC Hydro grid through construction of a transmission line (refer to Figure 2.2 2). Six alternatives for the alignment were considered to link the proposed Mine Site with potential connection points along the BC Hydro power corridor running between Vanderhoof and Endako parallel to Highway 16.	1	A	2.5, Subsection 2.5.18	2.5-57	Alternative Means of Undertaking the Proposed Project	Figure 2.5.18-1: Transmission Line Routing Alternatives
108	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Freshwater Supply: Three lake options (Tatelkuz, Kuyakuz, and Top Lakes) were assessed for proposed Project water supply. Tatelkuz Lake was selected, as it is the most reliable source of freshwater.	1	A	2.5, Subsection 2.5.11	2.5-32	Alternative Means of Undertaking the Proposed Project	Figure 2.5.11-1: Freshwater Supply Pipeline

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109	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Airstrip: Twenty-eight potential sites were initially identified for the airstrip from local knowledge, previous work, and preliminary terrain analysis. Screening and field investigations were conducted to identify the selected location of the airstrip, which will be developed on an already logged area with limited additional direct disturbance to the environment.	1	A	2.5, Subsection 2.5.17	2.5-52	Alternative Means of Undertaking the Proposed Project	Figure 2.5.17-1: Airfield Candidate Locations
110	A	2.5	19	Alternative Means of Undertaking the Proposed Project	The methodology proposed for assessing the alternative means of undertaking the proposed Project considers the following: • Alternatives for mine waste management will be assessed consistently with EC's Guidelines for the Assessment of Alternatives for Mine Waste Disposal (EC, 2011); and	1	A	2.5, Subsection 2.5.1.2.8	2.5-8	Alternative Means of Undertaking the Proposed Project	Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
111	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Other project components identified in Table 2.5 1 will be assessed using a comparative approach that considers environmental performance objectives and that have been utilized for mining projects in Canada. Using this method, and with the knowledge that all performance objectives are essential to the decision making process, an alternative is rejected if it attains an unacceptable rating for any single performance objective.	1	A	2.5, Subsection 2.5.1.2	2.5-2	Alternative Means of Undertaking the Proposed Project	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives
112	A	2.5	19	Alternative Means of Undertaking the Proposed Project	Consistent with the information presented above, this section of the Application will: • Provide an assessment of the alternative means of carrying out the proposed Project that are technically and economically feasible; and	1	A	2.5, Subsection 2.5.1.2	2.5-2	Alternative Means of Undertaking the Proposed Project	
113	A	2.5	19	Alternative Means of Undertaking the Proposed Project	• Identify the rationale for selecting the preferred alternative.	1	A	2.5, Subsections 2.5.2.2.2, 2.5.3.2.2, 2.5.7.2.2, 2.5.8.3.2, 2.5.9.3.2, 2.5.10.4.2, 2.5.11.2.2, 2.5.12.3.2, 2.5.13.2.2, 2.5.14.3.2, 2.5.15.2.2, 2.5.16.1.7, 2.5.17.3.2, 2.5.18.3.2, 2.5.19.3.2, 2.5.20.3.2	2.5-9, 2.5-12, 2.5-14, 2.5-19, 2.5-24, 2.5-30, 2.5-32, 2.5-35, 2.5-38, 2.5-40, 2.5-46, 2.5-49, 2.5-50, 2.5-56, 2.5-63, 2.5-68, 2.5-70	Alternative Means of Undertaking the Proposed Project	
114	A	2.6	19	Reclamation and Closure	This section of the Application will include a description of the reclamation goals for the proposed Project and strategies proposed to achieve these goals. The scope of the reclamation and closure plan will include on-site and off-site infrastructure. Key Project objectives relevant to reclamation and closure include the design of the mine for closure and the practice of progressive rehabilitation of areas impacted by its activities.	1	A	2.6, Subsection 2.6.1	2.6-1	Reclamation and Closure Plan	
115	A	2.6	19	Reclamation and Closure	This section will also provide a detailed description of proposed land reclamation measures that address reclamation standards as outlined in section 10 of the Health, Safety, and Reclamation Code for Mines in BC. The reclamation objectives will conform to land and resource	1	A	2.6, Subsection 2.6.3	2.6-2	Reclamation and Closure Plan	Appendix 12.2.1E: Vanderhoof Land and Resource Management Plan/Background Document and Reference Information (App Volume 18)

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					management objectives and strategies presented in the Vanderhoof Land and Resource Management Plan (LRMP).						
116	A	2.6	19	Reclamation and Closure	During development of the reclamation and closure plan applicable legislation, criteria and guidelines will be considered. Methods to achieve these objectives will be provided, including: soil management and use, landform design, decommissioning and site preparation, revegetation prescriptions for specified ecotype targets, seeding and planting densities.	1	A	2.6, Subsection 2.6.3, Subsection 2.6.6, Subsection 2.6.7, Subsection 2.6.8	2.6-1, 2.6-2, 2.6-26, 2.6-54, 2.6-64	Reclamation and Closure Plan	Appendix 2.6C: Wetland Water Treatment (Clear Coast Consulting Inc.) (App Volume 3) Appendix 2.6F: Characteristics of Plant Species for Revegetation (AMEC E&I) (App Volume 3) Table 2.6-7: Preliminary Native Plant Species for Reclamation of Mine-Related Landforms Table 2.6-8: Preliminary Species Mix for Reclamation of Mine Components into Natural Landforms Table 2.6-9: Proposed Species Composition for Erosion Control Seed Mixes Table 2.6-10: Areas for Revegetation in Mine-Related Landforms Figure 2.6-13: Mine Site Revegetation – Year 35
117	A	2.6	19	Reclamation and Closure	The plan will include management and monitoring strategies to verify reclamation success, and a timeline for reclamation and monitoring activities.	1	A	2.6, Subsection 2.6.9	2.6-68	Reclamation and Closure Plan	
118	A	2.6	19	Reclamation and Closure	Opportunities for reclamation research will be described.	1	A	2.6, Subsection 2.6.7	2.6-54	Reclamation and Closure Plan	
119	A	2.6	19	Reclamation and Closure	The plan will also describe management strategies for temporary closure (including a description of the conditions under which temporary closure will occur).	1	A	2.6, Subsection 2.6.10	2.6-74	Reclamation and Closure Plan	
120	A	2.6	19	Reclamation and Closure	The plan will emphasize soil, vegetation and wildlife habitat reclamation, and will cross reference relevant management plans presented in Section 12.2 which addresses the topics of Mine Waste Management, Water Quality and Liquid Discharges Management; Construction Management; Landscape, Soils and Vegetation Management and Restoration; Erosion and Sediment Control; Fisheries Mitigation and Offsetting Plan (FMOP); Invasive Species Management; Wetland Management; and Wildlife Management.	1	A	2.6, Subsection 2.6.6	2.6-26	Reclamation and Closure Plan	Appendix 2.6F: Characteristics of Plant Species for Revegetation (AMEC E&I) (App Volume 3) Table 2.6-7: Preliminary Native Plant Species for Reclamation of Mine-Related Landforms Table 2.6-8: Preliminary Species Mix for Reclamation of Mine Components into Natural Landforms Table 2.6-9: Proposed Species Composition for Erosion Control Seed Mixes Table 2.6-10: Areas for Revegetation in Mine-Related Landforms Figure 2.6-13: Mine Site Revegetation – Year 35
121	A	2.6	19	Reclamation and Closure	A conceptual reclamation cost estimate will be included in the Application.	1	A	2.6, Subsection 2.6.11	2.6-76	Reclamation and Closure Plan	Table 2.6-13: Estimated Project Closure and Reclamation Cost Table 2.6-14: Salvage Value of Mining Equipment
122	A	2.7	20	Proposed Project Land Use	This section of the Application will: • Describe the land ownership and land use regime (e.g., fee simple, Crown land, Indian Reservation, description of zoning, Agricultural Land Reserve designation, applicable LRMPs and other land use designations as applicable) including tenures, licenses, permits or other authorizations that would be potentially affected by the proposed Project and report on the status of consultations with holders of such tenures and permits, and private land owners on resolving issues with tenure and permit holders;	1	A	2.7	2.7-1	Proposed Project Land Use	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17)
123	A	2.7	20	Proposed Project Land Use	• Identify the proposed Project's overlaps with First Nation Traditional Territories;	1	A	2.7	2.7-1	Proposed Project Land Use	

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124	A	2.7	20	Proposed Project Land Use	• Identify the LRMPs that the proposed Project overlaps and list the management objectives of the LRMPs;	1	A	2.7, Subsection 2.7.1	2.7-1	Proposed Project Land Use	
125	A	2.7	20	Proposed Project Land Use	• Identify existing and proposed management and monitoring programs or regional studies;	1	A	2.7, Subsection 2.7.1	2.7-1	Proposed Project Land Use	
126	A	2.7	20	Proposed Project Land Use	• Identify other developments (as defined in Section 4.3.5) even if not directly related to the proposed Project, that may result in overlapping impacts with the proposed Project; and	1	A	2.7, Subsection 2.7.4 to 2.7.11	2.7-3	Proposed Project Land Use	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4)
127	A	2.7	20	Proposed Project Land Use	• Identify future developments (as defined in Section 4.3.5) that are reasonably foreseeable and sufficiently certain to proceed.	1	A	2.7, Subsection 2.7.12	2.7-6	Proposed Project Land Use	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4)
128	A	2.8	21	Proposed Project Benefits	This section of the Application will provide the following information: • Initial capital construction cost estimates: o Breakdown of costs for the land, buildings, and equipment associated with the proposed Project; and	1	A	2.8	2.8-2	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
129	A	2.8	21	Proposed Project Benefits	o Indicate the potential for use of local facilities and indicate if these are currently under-utilized;	1	A	2.8	2.8-2	Proposed Project Benefits	
130	A	2.8	21	Proposed Project Benefits	• Estimated operating costs over the life of the proposed Project (for land, buildings, and equipment) including: o Estimated annual operating costs (excluding labour);	1	A	2.8	2.8-2	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
131	A	2.8	21	Proposed Project Benefits	o Indicate how the costs are measured (either in current dollar value or use of Net Present Value); and	1	A	2.8	2.8-2	Proposed Project Benefits	
132	A	2.8	21	Proposed Project Benefits	o Cost for closure and post-closure;	1	A	2.8	2.8-2	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
133	A	2.8	21	Proposed Project Benefits	• Employment estimates including: o Direct employment, stated in number of person-years (PY) to be created by major job category during construction and operations, distinguishing among full-time, part-time and seasonal workers;	1	A	2.8	2.8-3	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
134	A	2.8	21	Proposed Project Benefits	o Wage levels, by major job category, for the construction and operating periods;	1	A	2.8	2.8-3	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
135	A	2.8	21	Proposed Project Benefits	o Breakdown of the number of people that will be hired locally, provincially, nationally or internationally;	1	A	2.8	2.8-3	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
136	A	2.8	21	Proposed Project Benefits	o Potential for the Proponent to use local human resources currently under-utilized;	1	A	2.8	2.8-3	Proposed Project Benefits	
137	A	2.8	21	Proposed Project Benefits	o Indicate any relevant employment policies/practices including any proposed training and employment initiatives; and	1	A	2.8	2.8-3	Proposed Project Benefits	
138	A	2.8	21	Proposed Project Benefits	o Indirect employment for the construction and operation phases of the proposed Project. Include any assumptions relating to industry specific multipliers or other multipliers used;	1	A	2.8	2.8-3	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
139	A	2.8	21	Proposed Project Benefits	• Contractor supply services estimates, including: o List of the major types of businesses/contractors, broken down at the local, provincial and national levels that will benefit from the overall proposed Project;	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
140	A	2.8	21	Proposed Project Benefits	o Value of supply of service contracts expected for both the construction and operation phases of the proposed Project; and	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
141	A	2.8	21	Proposed Project Benefits	o Information about local purchasing strategy, if any;	1	A	2.8	2.8-4	Proposed Project Benefits	

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142	A	2.8	21	Proposed Project Benefits	• Annual government revenues for the construction and operations phases of the proposed Project including: o Local/municipal (property taxes, other);	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
143	A	2.8	21	Proposed Project Benefits	o Regional district (taxes, other);	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
144	A	2.8	21	Proposed Project Benefits	o Provincial (income tax, provincial sales tax (PST), lease, license and tenure, royalties, other); and	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
145	A	2.8	21	Proposed Project Benefits	o Federal (income tax, Goods and Services Tax (GST), payroll taxes, other);	1	A	2.8	2.8-4	Proposed Project Benefits	Table 2.8-1: Summary of Proposed Project Effects
146	A	2.8	22	Proposed Project Benefits	• All assumptions and reference information sources for the above information; and	1	A	2.8	2.8-1	Proposed Project Benefits	
147	A	2.8	22	Proposed Project Benefits	• Proposed Project contributions to community development;	1	A	2.8, Subsection 2.8.1	2.8-14	Proposed Project Benefits	
148	A	2.8	22	Proposed Project Benefits	The following is a list of references to be used in providing the above information: o BC Stats, Quarterly Regional Statistics (http://www.bcstats.gov.bc.ca/pubs/pr_qrs.asp); and o BC Stats, BC Input-Output Model (http://www.bcstats.gov.bc.ca/pubs/pr_pem.asp); • BC Stats, Current Labour Force Data (http://www.bcstats.gov.bc.ca/pubs/pr_lfs.asp); • BC Stats, Regional District Data (http://www.bcstats.gov.bc.ca/regions.asp); • BC Stats, Socio-economic Profiles (http://www.bcstats.gov.bc.ca/data/sep/index.asp); and • Statistics Canada – Community Profiles (http://www12.statcan.ca/census-recensement/2006/dp-pd/prof/92-591/index.cfm?Lang=E). The information presented will be consistent with the information presented in Section 2.2 of the Application.	1	A	2.8	2.8-1	Proposed Project Benefits	
149	A	2.9	22	Applicable Permits	This section of the Application will: • List applicable provincial and federal licenses, permits and/or approvals required for the construction, operations, closure, and post-closure of the proposed Project and the associated responsible regulatory agency; and	1	A	2.9	2.9-1	Applicable Permits	Table 2.9-1: Potential Federal Permits, Licences, and Authorizations Required for the Project Table 2.9-2: Potential Provincial Permits, Licences, and Authorizations Required for the Project
150	A	2.9	22	Applicable Permits	• Indicate if a request for concurrent permitting is being presented under the Concurrent Approval Regulation (Government of BC, 2002b). At this time, the Proponent does not intend to apply for concurrent permitting. Table 2.9 1 and Table 2.9 2 present a list of expected required permits, licenses, authorizations, and certificates under provincial and federal regulations. Other approvals may be required depending upon proposed Project design.	1	A	2.9, Subsection 2.9.4	2.9-3	Applicable Permits	Table 2.9-1: Potential Federal Permits, Licences, and Authorizations Required for the Project Table 2.9-2: Potential Provincial Permits, Licences, and Authorizations Required for the Project
151	**A**	**3**	**25**	**ASSESSMENT PROCESS**							
152	A	3.1	25	Provincial EA Process	This section of the Application will provide: • List of the federal and provincial agencies/departments/organizations likely to be involved in the EA and their anticipated or confirmed roles;	2	A	3.1, Subsection 3.1.1, 3.2	3-3 3-7	Provincial EA Process Federal Assessment	Table 3.1-1: Working Group Members Table 3.2-1: Federal Departments involved in the Environmental Assessment

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153	A	3.1	25	Provincial EA Process	• List of applicable milestones. Milestones must include, but are not limited to, issuance of section 10 and 11 Orders, Working Group meetings, and public comment periods; and	2	A	3.1, Subsection 3.1.3, Subsection 3.2.2	3-4 3-10	Provincial EA Process Federal Assessment	Figure 3-1: Coordinated Federal and Provincial Environmental Assessment Process Figure 3.1-1: Provincial Environmental Assessment Process Figure 3.2-1: Federal Environmental Assessment Process
154	A	3.1	25	Provincial EA Process	• The Issues Tracking Tables to document issues and concerns raised and the degree to which issues are considered resolved or addressed by the Proponent and other parties during the preparation of the AIR and Application. Issues tracking tables are required for each of the following groups: public, Aboriginal groups, and local, provincial, and federal government agencies.	2	A	3.1, Subsection 3.1.4	3-6	Provincial EA Process	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 3.3-4: Key Comments and Concerns Expressed by Aboriginal Groups and Responses Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses
155	A	3.2	25	Federal Assessment	This section of the Application will provide: • List of the federal agencies/departments/organizations likely to be involved in the review, and their anticipated or confirmed roles;	2	A	3.2, Subsection 3.2	3-7	Federal Assessment	Table 3.2-1: Federal Departments involved in the Environmental Assessment
156	A	3.2	25	Federal Assessment	• List of applicable federal milestones; and	2	A	3.2, Subsection 3.2.2	3-10	Federal Assessment	Figure 3-1: Coordinated Federal and Provincial Environmental Assessment Process Figure 3.2-1: Federal Environmental Assessment Process
157	A	3.2	25	Federal Assessment	• The Issues Tracking Table to document issues and concerns raised during the preparation of the AIR and the Application.	2	A	3.1, Subsection 3.1.4	3-6	Provincial EA Process	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses
158	A	3.2	25	Federal Assessment	The Agency confirmed that the proposed Project will not be referred to a review panel. The responsibility for conducting the EA rests with the Agency (Agency, 2013a).	2	A	3.2, Subsection 3.2.2	3-10	Federal Assessment	
159	A	3.3	25	Aboriginal Groups Information Distribution and Consultation	This section of the Application will: • Summarize consultation activities undertaken with the identified Aboriginal groups potentially affected by the proposed Project (as identified in the section 11 Order);	2	A	3.3	3-10	Aboriginal Groups Information Distribution and Consultation	Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4)
160	A	3.3	25	Aboriginal Groups Information Distribution and Consultation	• Describe the means of information distribution and consultation used; and	2	A	3.3, Subsection 3.3.1.3	3-15	Aboriginal Groups Information Distribution and Consultation	Table 3.3-3: Effects Assessment Meetings
161	A	3.3	25	Aboriginal Groups Information Distribution and Consultation	• Summarize issues, concerns, and interests identified during consultation, and how these matters were addressed, including reference to applicable mitigation and/or accommodation measures identified in Section 18 of the Application.	2	A	3.3, Subsection 3.3.1.5	3-22	Aboriginal Groups Information Distribution and Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18) Table 3.3-1: Summary of Feedback Received from Aboriginal Groups on the AGCP Table 3.3-2: Summary of Feedback Received from Aboriginal Groups on the Consultation

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											Reports Table 3.3-4: Key Comments and Concerns Expressed by Aboriginal Groups and Responses
162	A	3.3.1	25	Pre-Application Consultation	This section will provide an outline of consultations undertaken in the pre-Application stage, covering both the preparation of the AIR and the Application, specifically: • Summary of consultations with Aboriginal groups; and	2	A	3.3.1 Subsection 3.3.1.4	3-16	Pre-Application Consultation	Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4)
163	A	3.3.1	25	Pre-Application Consultation	• The Issues Tracking Tables to document issues and concerns raised by Aboriginal groups and the degree to which issues are considered resolved or addressed by the Proponent and other parties during the preparation of the AIR and the Application.	2	A	3.3.1, Subsection 3.3.1.5	3-22	Pre-Application Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Table 3.3-4: Key Comments and Concerns Expressed by Aboriginal Groups and Responses
164	A	3.3.2	26	Consultation Planned During Application Review	This section will provide the following: • Description of the Aboriginal groups consultation program proposed for the Application review stage of the EA process; and	2	A	3.3.2, Subsection 3.3.2.1	3-32	Consultation Planned During Application Review	Table 3.3-5: Schedule of Consultation Activities
165	A	3.3.2	26	Consultation Planned During Application Review	• Description of the proposed methods and process to resolve outstanding issues.	2	A	3.3.2, Subsection 3.3.2.2	3-32	Consultation Planned During Application Review	
166	A	3.4	26	Public and Agency Information Distribution and Consultation	This section of the Application will provide the following: • Summary of the consultations with public and other key stakeholders, federal, provincial, and local government agencies;	2	A	3.4, Subsection 3.4.1.1	3-35	Public and Agency Information Distribution and Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4) Table 3.4-1: Summary of Consultations with Tenure Holders Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses
167	A	3.4	26	Public and Agency Information Distribution and Consultation	• Description of the means of information distribution and consultation used including the following: o Public meetings and open houses;	2	A	3.4, Subsection 3.4.1.1.2.1, Subsection 3.4.1.1.2.2	3-56 3-57	Public and Agency Information Distribution and Consultation	Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
168	A	3.4	26	Public and Agency Information Distribution and Consultation	o One-on-one meetings with interested parties;	2	A	3.4, Subsection 3.4.1.1.2.4	3-60	Public and Agency Information Distribution and Consultation	Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
169	A	3.4	26	Public and Agency Information Distribution and Consultation	o Publication of articles in the media, enclosures and community newspapers;	2	A	3.4, Subsection 3.4.1.1.1	3-54	Public and Agency Information Distribution and Consultation	Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
170	A	3.4	26	Public and Agency Information Distribution and Consultation	o Interviews on local radio and television;	2	A	3.4, Subsection 3.4.1.1.1	3-54	Public and Agency Information Distribution and Consultation	Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
171	A	3.4	26	Public and Agency Information Distribution and Consultation	o Participation in community events; and	2	A	3.4, Subsection 3.4.1.1.2.8	3-62	Public and Agency Information Distribution and Consultation	Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
172	A	3.4	26	Public and Agency Information Distribution and Consultation	• Summary of issues, concerns, and interests identified during these consultations, and how these matters were addressed.	2	A	3.4, Subsection 3.4.1.1.3	3-64	Public and Agency Information Distribution and Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)

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											Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses
173	A	3.4.1	26	Pre-Application Consultation	This section will provide an outline of consultations undertaken in the pre-Application stage, covering both the preparation of the AIR and the Application, specifically: • Summary of consultations with public and other key stakeholders;	2	A	3.4.1, Subsection 3.4.1.1.1	3-54	Pre-Application Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4) Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4)
174	A	3.4.1	26	Pre-Application Consultation	• Summary of consultations with federal, provincial, and local government representatives; and	2	A	3.4.1, Subsection 3.4.1.2.2	3-71	Pre-Application Consultation	
175	A	3.4.1	26	Pre-Application Consultation	• The Issues Tracking Tables to document issues and concerns raised by the public and government agencies and the degree to which issues are considered resolved or addressed by the Proponent and other parties during the preparation of the AIR and the Application.	2	A	3.4.1, Subsection 3.4.1.1.3	3-64	Pre-Application Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses
176	A	3.4.2	27	Consultation Planned During Application Review	This section will provide the following: • Description of the public consultation program proposed for the Application review stage of the EA process;	2	A	3.4.2.1	3-72	Consultation Planned During Application Review	
177	A	3.4.2	27	Consultation Planned During Application Review	• Description of the proposed programs for consultation with government agencies; and.	2	A	3.4.2, Subsection 3.4.2.2	3-75	Consultation Planned During Application Review	
178	A	3.4.2	27	Consultation Planned During Application Review	• Description of the proposed methods and process to resolve outstanding issues	2	A	3.4.2, Subsection 3.4.2.1.2	3-75	Consultation Planned During Application Review	
179	**B**	**4**	**28**	**ASSESSMENT METHODOLOGY**							
180	B	4.1	28	General Approach	This general approach proposed to determine potential project effects, appropriate mitigation measures, anticipated residual effects and their significance is illustrated in Figure 4.1 1. The methodology in the Application will be consistent with the Guideline for Selection of Valued Components (VCs) and Assessment of Potential Effects (BC EAO, 2013b). The methodology in the Application will be consistent with the Guideline for Selection of Valued Components (VCs) and Assessment of Potential Effects (BC EAO, 2013b). Baseline characterization and the results of consultation and engagement activities provide the information to allow for the identification of the VC representative of the five pillars.	2	B	4.1	4-2	General Approach	Figure 4.1-1: Effects Assessment General Approach Flow Chart Figure 4.1-2: Effects Assessment Process Flow Chart
181	B	4.1	28	General Approach	The baseline characterization will provide information on the important features of each subject area and associated processes, their interrelationships and interactions, as well as the variability within and among resources, processes, and interactions over the temporal scale as identified in the Application. This information will be presented in sufficient detail to allow characterization of each component before any disturbance to the environment due to the proposed Project. In describing the environmental components, both scientific and available traditional knowledge will be included, as well as the indicators and measures of component health and integrity used for the analysis. The	2	B	4.1	4-2	General Approach	Appendix 4B: List of Candidate and Selected Valued Components Considered in the Environmental Assessment (AMEC E&I) (App Volume 4) Figure 4.2-1: Steps in the Selection of Valued Components Flow Chart Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and

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					baseline characterization will address the resilience of the subject area, and relevant historical information. Where little or no information is available, specific studies will be designed to gather further information. The background characterization will cover all relevant seasonal and temporal variations. Detailed information will be provided in appendices of the Application and summarized in the Application. The summary will be focused on representative surrogates and/or indicators of all of the five pillar components that may be affected by the proposed Project. Once the identification and selection of VCs is completed, the methodology continues with assessment of potential and residual effects of the proposed Project on the VCs. Mitigation measures will be proposed for each VC as required, taking into consideration the magnitude and duration of the potential effects of the proposed Project.						Rationale Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components
182	B	4.1	28	General Approach	The mitigation measures will be discussed in relation to their expected effectiveness and uncertainty. Following the assessment of the residual effects of the proposed Project, a Cumulative Effects Assessment is undertaken for each VC for which there is a residual effect, taking into consideration the past, present, certain (the physical activity will proceed or there is a high probability that the physical activity will proceed, e.g., the proponent has received the necessary authorizations or is in the process of obtaining those authorizations) and reasonably foreseeable (the physical activity is expected to proceed, e.g., the proponent has publicly disclosed its intention to seek the necessary EA or other authorizations to proceed) (Agency, 2013c) future projects and activities. The rationale for the selection of projects and activities (both included and excluded) will be presented in the Application. If potential cumulative effects are deemed unacceptable, additional mitigation measures will be proposed to generate acceptable residual cumulative effects. Uncertainties and assumptions used in the significance assessment of residual effects and cumulative effects will be presented under each VC in the Application. Under this approach, the potential effects are considered as pre-mitigation effects while the residual effects are the ones expected to occur subsequent to the application of mitigation measures. The residual effects are the basis for the determination of significance.	2	B	4.1	4-2	General Approach	
183	B	4.1	28	General Approach	This section of the Application will provide a clear description of the assessment methodology, specifically: • The scope of the EA;	2	B	4.1	4-2	General Approach	
184	B	4.1	28	General Approach	• A list of the agencies, Aboriginal groups, and stakeholders that reviewed and commented on the AIR;	2	B	4.1	4-2	General Approach	Appendix 4A: List of Agencies, Aboriginal Groups, and Stakeholders that Reviewed and Commented on the Draft AIR (AMEC E&I) (App Volume 4)
185	B	4.1	28	General Approach	• A list of the guidance documents provided by agencies used to develop the assessment methodology;	2	B	4.1, Subsection 4.1.1	4-6	General Approach	Table 4.1-1: Provincial and Federal Guidance Documents and BMPs
186	B	4.1	28	General Approach	• Description of applicable standards used for effects assessment;	2	B	4.3.5, Subsection 4.3.5.1	4-31	General Approach	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects
187	B	4.1	28	General Approach	• A list of applicable provincially/regionally developed Best Management Practices (BMPs) and guidance documents that will be implemented;	2	B	4.1, Subsection 4.1.1	4-6	General Approach	Table 4.1-1: Provincial and Federal Guidance Documents and BMPs

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188	B	4.1	28	General Approach	• Methods used for assessing the potential and residual effects of the proposed Project and cumulative effects (considering past, present, certain, and reasonably foreseeable future projects). The assessment will include the construction, operations, closure, and post-closure phases of the proposed Project;	2	B	4.1	4-2	General Approach	
189	B	4.1	28	General Approach	• How the significance of the residual effects of the proposed Project will be determined, considering the following categories:	2	B	4.1	4-2	General Approach	
190	B	4.1	28	General Approach	o Context;	2	B	4.1	4-2	General Approach	
191	B	4.1	28	General Approach	o Magnitude;	2	B	4.1	4-2	General Approach	
192	B	4.1	28	General Approach	o Geographic extent;	2	B	4.1	4-2	General Approach	
193	B	4.1	28	General Approach	o Duration;	2	B	4.1	4-2	General Approach	
194	B	4.1	28	General Approach	o Reversibility; and	2	B	4.1	4-2	General Approach	
195	B	4.1	28	General Approach	o Frequency.	2	B	4.1	4-2	General Approach	
196	B	4.1	28	General Approach	• The criteria and rationale for each of the above listed categories as it applies to each VC;	2	B	4.1	4-2	General Approach	
197	B	4.1	28	General Approach	• How likelihood will be applied as a category to describe the residual effect for each VC; and	2	B	4.1	4-2	General Approach	
198	B	4.1	28	General Approach	• How confidence will be applied as a category to characterize the level of uncertainty associated with both, the significance and likelihood determinations.	2	B	4.1	4-2	General Approach	
199	B	4.2	30	Identification and Selection of Valued Components	VCs are defined as any part of the environment (natural or human) that is considered important by the Proponent, Aboriginal groups, public, scientists, and governments involved in the assessment process. Importance may be determined on the basis of values as identified by Aboriginal groups' interests, scientific literature, and regulatory standards or requirements, biodiversity, and sensitivity to project effects. Indicators are metrics used to measure and report on the condition and trend of a VC and will be identified to further focus and facilitate the analysis of interactions between the project and the selected VC (BC EAO, 2013b).	2	B	4.2, Subsection 4.2.1	4-11	Identification and Selection of Valued Components	Appendix 4B: List of Candidate and Selected Valued Components Considered in the Environmental Assessment (AMEC E&I) (App Volume 4) Figure 4.2-1: Steps in the Selection of Valued Components Flow Chart Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components
200	B	4.2	30	Identification and Selection of Valued Components	This subsection of the Application will provide the following information for each of the five types of impacts (environmental, economic, social, heritage and health): • Identification of the VCs to be considered in the EA; and.	2	B	4.2, Subsection 4.2.1	4-11	Identification and Selection of Valued Components	Appendix 4B: List of Candidate and Selected Valued Components Considered in the Environmental Assessment (AMEC E&I) (App Volume 4) Figure 4.2-1: Steps in the Selection of Valued Components Flow Chart Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Table 4.3-3: Quantitative and Qualitative Methods

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											for Assessing the Effects on Selected Valued Components
201	B	4.2	30	Identification and Selection of Valued Components	• Description of the general methodology used to identify VCs.	2	B	4.2, Subsection 4.2.1	4-11	Identification and Selection of Valued Components	
202	B	4.2	30	Identification and Selection of Valued Components	Candidate VCs and proposed indicators and other factors for the assessment of residual and cumulative effects are presented in Table 4.2 1. The Application will provide the rationale for choosing the VCs and indicators/factors listed in this table. It will also discuss the rationale for VCs considered or suggested but not selected. The list of VC candidates is subject to review and discussion and may be further refined in light of further comments received from the Working Group, Aboriginal groups, and the public, and to be consistent with EAO Guidelines on Valued Components (BC EAO, 2013b).	2	B	4.2, Subsection 4.2.1	4-11	Identification and Selection of Valued Components	Appendix 4B: List of Candidate and Selected Valued Components Considered in the Environmental Assessment (AMEC E&I) (App Volume 4) Figure 4.2-1: Steps in the Selection of Valued Components Flow Chart Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
203	B	4.3	34	Assessment of Potential Effects on Selected Valued Components	This subsection of the Application will present a description of the assessment methodology used to determine whether the proposed Project would have significant adverse environmental, social, economic, heritage and health effects, taking into account the mitigation measures proposed in the Application.	2	B	4.3	4-16	Assessment of Potential Effects on Selected Valued Components	Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components
204	B	4.3	34	Assessment of Potential Effects on Selected Valued Components	The Application will present specific assessment methods for each VC identified in Section 4.2.	2	B	4.3, Subsection 4.3.3	4-26	Assessment of Potential Effects on Selected Valued Components	Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components
205	B	4.3.1	34	Assessment Boundaries	Assessment boundaries serve to define the scope of limits of the assessment. The following sections describe the four types of assessment boundaries required for each selected VC.	2	B	4.3.1	4-16	Assessment Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
206	B	4.3.1.1	34	Spatial Boundaries	This subsection of the Application will identify and present in each VC section the local and regional spatial boundaries for each VC and the rationale for selecting these boundaries.	2	B	4.3.1.1	4-16	Spatial Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
207	B	4.3.1.1	34	Spatial Boundaries	Maps for each VC will display the spatial extent of the Local Study Area (LSA) and Regional Study Area (RSA). The LSA is defined as an area within which all (or most) potential project effects are expected to occur (BC EAO, 2013b). The RSA is defined as a larger area (relative to the LSA) and used to provide context for the assessment of potential project effects. (BC EAO, 2013b) Spatial boundaries will reflect the range of geographic areas within which specific effects may occur, and will be based on applicable guidance documents, reasonable expectations for the specific VC, and professional judgment. Spatial boundary identification will consider the following criteria. This consideration will be discussed in the Application for each VC: • Physical extent (terrestrial, freshwater aquatic, and airshed) of the proposed Project footprint, including mine site, mine access road, transmission line and freshwater supply pipeline as described in Section 2.2;	2	B	4.3.1.1	4-16	Spatial Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Figure 4.3-1: Boundaries for the Linear Components of the Project
208	B	4.3.1.1	34	Spatial Boundaries	• Extent of terrestrial, freshwater, aquatic, and applicable resources potentially affected by the proposed Project;	2	B	4.3.1.1	4-16	Spatial Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Figure 4.3-1: Boundaries for the Linear Components of the Project

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209	B	4.3.1.1	34	Spatial Boundaries	• Extent of social, economic, heritage, and health effects including those of Aboriginal groups potentially occurring from the proposed Project; and	2	B	4.3.1.1	4-16	Spatial Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Figure 4.3-1: Boundaries for the Linear Components of the Project
210	B	4.3.1.1	34	Spatial Boundaries	• Results from consultation with Aboriginal groups, the public, and government agencies on the scoping of issues to be addressed in the Application.	2	B	4.3.1.1	4-16	Spatial Boundaries	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
211	B	4.3.1.1	34	Spatial Boundaries	Table 4.3 1 presents the spatial boundaries proposed for each VC for the proposed Project. When proposed Project components are in close proximity, there is a possibility that study areas would overlap, and if this is the case, the study areas will be merged to avoid duplication.	2	B	4.3.1.1	4-16	Spatial Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
212	B	4.3.1.2	51	Temporal Boundaries	This subsection of the Application will present the rationale for the proposed temporal boundaries to be used for the EA including an assessment of the effects for each phase of the proposed Project, including site preparation, construction, operations and maintenance, closure, and post-closure.	2	B	4.3.1.2	4-23	Temporal Boundaries	
213	B	4.3.1.2	51	Temporal Boundaries	In addition, consideration will be given to the possibility of social and economic effects occurring before construction (i.e., during procurement and or recruitment). The description of the temporal extent of the EA (entire life of the proposed Project) will be relative to the VCs.	2	B	4.3.1.2	4-23	Temporal Boundaries	
214	B	4.3.1.2	51	Temporal Boundaries	Any annual or seasonal variation related to VCs and biophysical constraints for all phases of the proposed Project will be described.	2	B	4.3.1.2	4-23	Temporal Boundaries	
215	B	4.3.1.2	51	Temporal Boundaries	Preliminary temporal boundaries of the proposed Project, which are contingent on permitting, include four primary phases. • Construction phase: the construction phase of the proposed Project will occur over two years; • Operations phase: the operations phase of the proposed Project will extend for approximately 17 years and will start once the plant site has been built and commissioned and is ready for ore processing; • Closure phase: the closure phase is estimated to occur for approximately 18 years (ending in Year 35). This phase considers initial two years following the cessation of ore processing activities as the period during which the buildings and infrastructure that will no longer be needed will be removed and mine facilities reclaimed. An additional 16 years will be required for the open pit to flood and start discharging towards the TSF, and for the TSF to start overflowing and discharging water back to Davidson Creek; and • Post-closure phase: the post-closure phase starts once the proposed Mine Site starts discharging water back to Davidson Creek (starting in Year 35). At this stage, it is expected that the Mine Site would have reached an equilibrium and only maintenance and monitoring activities will be required.	2	B	4.3.1.2	4-23	Temporal Boundaries	
216	B	4.3.1.3	51	Administrative Boundaries	Administrative boundaries refer to the limitations imposed on an environmental assessment by political, economic, or social constraints (BC EAO, 2013). For each VC the administrative boundaries will be described and rationale will be provided in the Application.	2	B	4.3.1.3	4-24	Administrative Boundaries	

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217	B	4.3.1.4	51	Technical Boundaries	Technical boundaries refer to the constraints imposed on an environmental assessment by limitations in the ability to predict the effects of a project (BCEAO, 2013) For each VC the technical boundaries will be described and rationale will be provided in the Application.	2	B	4.3.1.4	4-24	Technical Boundaries	
218	B	4.3.2	51	Existing Conditions	For each VC, the existing conditions within the study areas should be described in sufficient detail to enable potential interactions between the Project and the VCs to be identified, understood and assessed (BC EAO, 2013). Primary and secondary information will be used to characterize existing conditions.	2	B	4.3.2	4-24	Existing Conditions	
219	B	4.3.2	51	Existing Conditions	In addition to the description relative to the VC, the scope of the description of existing conditions should include: • Natural and/or human trends that may alter the existing conditions irrespective of the changes that may be caused by the proposed Project or other projects and activities in the study area; and	2	B	4.3.2	4-24	Existing Conditions	
220	B	4.3.2	51	Existing Conditions	• Description of how other past and present projects and activities in the study area have affected or are affecting each VC.	2	B	4.3.2	4-24	Existing Conditions	
221	B	4.3.3	52	Potential Project Effects	Interactions between all project components and activities listed in Section 2.2, and each VC will be identified and described. Key interactions revealed as part of this process will constitute the focus of the assessment.	2	B	4.3.3	4-26	Potential Project Effects	Table 4.3-2: Project Component and Activity Interaction Matrix for Selected VCs
222	B	4.3.3	52	Potential Project Effects	Potential project effects can be assessed qualitatively or quantitatively depending on the nature of the indicator selected for the VC. Limitations and assumptions for models used to quantitatively estimate Project effects will be clearly stated for each VC.	2	B	4.3.3	4-26	Potential Project Effects	Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components
223	B	4.3.4	52	Mitigation of Project Effects	Technically and economically feasible mitigation measures will be described for each VC aimed to reduce the potential adverse effects to acceptable levels. Mitigation measures will include the following actions: • Avoidance; • Minimization; • Treatment; • Restoration; • Compensation; and • Off-Setting. Mitigation will be proposed to bring potential adverse effects of the proposed Project down to residual effects that will be acceptable.	2	B	4.3.4	4-30	Mitigation of Project Effects	
224	B	4.3.5	52	Evaluating Residual Project Effects	Adverse residual effects of the Project will be characterized and their significance will be determined as described in the following sections.	2	B	4.3.5	4-31	Evaluating Residual Project Effects	
225	B	4.3.5.1	52	Characterization of Residual Effects	This subsection of the Application will present the rationale for describing residual effects and assessing their significance on VCs. The following attributes will be considered for the characterization of residual effects and the assessment of their significance: • Context: this refers to the ability of the VC to accept change. For example, the effect of a project may have an impact if it occurs in areas that are ecologically sensitive, with little resilience to imposed stresses;	2	B	4.3.5.1	4-31	Characterization of Residual Effects	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects
226	B	4.3.5.1	52	Characterization of Residual Effects	• Magnitude: this refers to the severity of the impact.	2	B	4.3.5.1	4-31	Characterization of Residual Effects	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects

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227	B	4.3.5.1	52	Characterization of Residual Effects	• Geographical extent: this refers to the area over which the predicted impact is expected to occur.	2	B	4.3.5.1	4-31	Characterization of Residual Effects	Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects
228	B	4.3.5.1	52	Characterization of Residual Effects	• Duration: this refers to the length of time the effect lasts.	2	B	4.3.5.1	4-31	Characterization of Residual Effects	
229	B	4.3.5.1	52	Characterization of Residual Effects	• Reversibility: this refers to the ability of the VC to return to its original state once the stressor is removed; and	2	B	4.3.5.1	4-31	Characterization of Residual Effects	
230	B	4.3.5.1	52	Characterization of Residual Effects	• Frequency: this refers to how often an effect is expected to occur.	2	B	4.3.5.1	4-31	Characterization of Residual Effects	
231	B	4.3.5.1	52	Characterization of Residual Effects	This section of the Application will present the rationale for the rating criteria applied to each of the categories listed above. For those VCs with standards established by legislation or regulations (such as noise, air quality, surface water quality, and sediment quality), the predicted effect in relation to the standard will serve as the basis for the determination of the magnitude of the effect. For other VCs, the assessment of magnitude will be conducted by analyzing other factors, which will be VC-specific.	2	B	4.3.5.1	4-31	Characterization of Residual Effects	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects
232	B	4.3.5.2	53	Likelihood	Likelihood refers to whether or not a residual effect is likely to occur. The likelihood of each residual Project effect will be stated for each VC. The likelihood will be classified as high, moderate or low.	2	B	4.3.5.2	4-37	Likelihood	
233	B	4.3.5.3	53	Significance	The significance of residual Project effects will be determined for each VC considering the attributes described in Section 4.3.5.	2	B	4.3.5.3	4-37	Significance	Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects
234	B	4.3.5.4	53	Confidence and Risk	Once the residual effects predictions has been described in terms of significance and likelihood, the level of confidence on the assessment of residual Project effects will be stated for each VC. The level of confidence will be classified as high, moderate or low. For cases when a low level of confidence is determined, a risk analysis will be conducted to more fully characterize the potential risk associated with uncertain outcomes.	2	B	4.3.5.4	4-39	Confidence and Risk	Table 4.3-10: Confidence
235	B	4.3.5.5	54	Determining the Need for Cumulative Effects Assessment	The need for a cumulative effects assessment on a VC will be determined according to the following: • The occurrence of a residual adverse Project effect has been determined, but this residual effect is not expected to be negligible; and	2	B	4.3.5.5	4-39	Determining the Need for Cumulative Effects Assessment	
236	B	4.3.5.5	54	Determining the Need for Cumulative Effects Assessment	• The residual Project effects must be demonstrated to interact with the cumulative effect of other past, present or future projects or activities.	2	B	4.3.5.5	4-39	Determining the Need for Cumulative Effects Assessment	
237	B	4.3.5.5	54	Determining the Need for Cumulative Effects Assessment	The Application will include a rationale for selection of other projects/activities, including consideration of Agency guidance (Agency, 2013c), as well as other factors that may inform whether a future development is sufficiently certain to proceed. The following major projects are initially identified as possible candidates for inclusion in the assessment of cumulative effects: • Nulki Hills Wind Project (Project Description submitted November 2012; section 10, Order, issued 26 November 2012); • Coastal Gas Link Pipeline; and • Pacific Northern Gas Looping Project.	2	B	4.3.5.5	4-39	Determining the Need for Cumulative Effects Assessment	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4) Table 4.3-11: Summary Project Inclusion List Table 4.3-12: Projects Not Included in Cumulative Effects Assessment

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238	B	4.3.5.5	54	Determining the Need for Cumulative Effects Assessment	The following general land uses will also be reviewed to determine the potential contribution to cumulative effects: • Protected areas and parks; • Recreation/tourism use (e.g., all terrain vehicle use); • Mining, exploration, and mineral tenures; • Forestry and timber resource use; • Hunting/trapping/guide outfitting; • Fishing and aquaculture; • Agriculture and grazing; • Range use; • Land ownership and tenures; • Recreational and commercial use of waterways; • Groundwater resource use; and • Surface water resource use.	2	B	4.3.5.5	4-39	Determining the Need for Cumulative Effects Assessment	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4) Table 4.3-11: Summary Project Inclusion List Table 4.3-12: Projects Not Included in Cumulative Effects Assessment
239	B	4.3.6	54	Assessment of Cumulative Effects	The assessment of cumulative effects will identify the residual effects of the proposed Project with the potential to interact with the residual effects of other projects or activities within the RSA and assess whether this interaction is likely to result in a greater impact to the identified VC. As for the assessment of Project Effects, the assessment of cumulative effects will consider the following steps: • Potential cumulative effects; • Mitigation of cumulative effects; and • Evaluation of residual cumulative effects.	2	B	4.3.6	4-40	Assessment of Cumulative Effects	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4)
240	B	4.3.6	54	Assessment of Cumulative Effects	The significance of cumulative effects will be determined considering the same categories used as for the assessment of residual effects.	2	B	4.3.6, Subsection 4.3.6.4	4-46	Assessment of Cumulative Effects	
241	**B**	**5**	**56**	**ASSESSMENT OF POTENTIAL ENVIRONMENTAL EFFECTS**							
242	B	5.1	56	Environmental Baseline	This section of the Application will present the assessment of effects for the biophysical environment. Section 5.1 will describe the biophysical baseline conditions of the proposed Project. Sections 5.2 to Section 5.4 will present the scoping and rationale conducted to select VC for the atmospheric, acoustic, aquatic and terrestrial environments, the results of effects assessment on each VC and the proposed monitoring and follow-up activities. The VCs proposed for each environmental discipline is based on the list of VCs presented in Table 4.2 1 in Section 4. Section 5.5 will present a summary of the environmental effects assessment results.	2	B	5.1	5.1.1-1	Environmental Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19) Table 5-1: Summary of Significance Determination for Residual and Cumulative Effects
243	B	5.1	56	Environmental Baseline	This section of the Application will present an overview of the methodology for determining baseline conditions for the atmospheric, acoustic, aquatic, and terrestrial environmental components.	2	B	5.1	5.1.1-1	Environmental Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
244	B	5.1.1	56	Atmospheric and Acoustic Environment							
245	B	5.1.1.1	56	Climate	This subsection will present a climate baseline study, which includes the following: • Methods used to collect site climatology information, including description of the meteorological stations installed on-site and public sector climate data for the region;	2	B	5.1.1.1, Subsection 5.1.1.1.1	5.1.1-3	Climate	Figure 5.1.1.1-1: Air Quality and Climate Study Areas Figure 5.1.1.1-2: Project Monitoring Stations Figure 5.1.1.1-3: Regional Streamflow and Climate Stations Table 5.1.1.1-1: Regional Weather Stations

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246	B	5.1.1.1	56	Climate	• Presentation and analysis of the data collected from the site climate stations;	2	B	5.1.1.1, Subsection 5.1.1.1.2	5.1.1-8	Climate	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.1.1-2: Project and Regional Weather Station Precipitation Distributions Table 5.1.1.1-3: Regional and Project Snow Course Data
247	B	5.1.1.1	56	Climate	• Characterization of regional meteorological conditions and comparison with site-specific conditions; and	2	B	5.1.1.1, Subsection 5.1.1.1.2	5.1.1-8	Climate	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.1.1-2: Project and Regional Weather Station Precipitation Distributions Table 5.1.1.1-3: Regional and Project Snow Course Data Table 5.1.1.1-4: Estimated Average Precipitation, Rainfall, and Snow Water Equivalent for the Project Table 5.1.1.1-5: Estimated 24-Hour Extreme Precipitation for the Project Table 5.1.1.1-6: Estimated Wet and Dry Annual Precipitation for the Project Table 5.1.1.1-7: Estimated Potential Evapotranspiration for the Project
248	B	5.1.1.1	56	Climate	• Provincial and sector specific greenhouse gas (GHG) release information.	2	B	5.1.1.1, Subsection 5.1.1.1.3	5.1.1-11	Climate	Table 5.1.1.1-8: British Columbia and Canada GHG Emissions
249	B	5.1.1.1	56	Climate	Regional climatologic conditions within the proposed Project area will be used to describe climate. The local climatologic conditions will be summarized based on data obtained from the two on-site meteorological stations. If on-site data are insufficient to characterize the site-specific conditions, data from nearby EC stations will be analyzed to describe the local conditions (EC, 2012).	2	B	5.1.1.1, Subsection 5.1.1.1.2	5.1.1-8	Climate	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.1.1-1: Regional Weather Stations Table 5.1.1.1-2: Project and Regional Weather Station Precipitation Distributions Table 5.1.1.1-3: Regional and Project Snow Course Data Table 5.1.1.1-4: Estimated Average Precipitation, Rainfall, and Snow Water Equivalent for the Project Table 5.1.1.1-5: Estimated 24-Hour Extreme Precipitation for the Project Table 5.1.1.1-6: Estimated Wet and Dry Annual Precipitation for the Project Table 5.1.1.1-7: Estimated Potential Evapotranspiration for the Project
250	B	5.1.1.2	56	Air Quality	This subsection will present an air quality baseline study, which includes continuous on-site monitoring of particulates concentration including respirable fraction of 2.5 micrometres (µm) in diameter (PM2.5) and thoracic fraction of 10 µm in diameter (PM10) carried out by the Proponent since October 2012. A protocol of the gravimetric sampling agreed with BC Ministry of Environment (BC MOE) involves a Partisol instrument, three-day sampling cycles, and a gravimetric analysis of respirable and thoracic samples by a certified laboratory. Consequently, baseline concentration of PM2.5 and PM10 are completed using on-site real-time data. Because dust is the most common and significant contaminant generated during open pit mining, the real time monitoring of baseline and proposed Project dust concentrations is essential in the assessment of air contaminants	2	B	5.1.1.2	5.1.1-11	Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Figure 5.1.1.1-1: Air Quality and Climate Study Areas

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					impact on critical receptors, including people, wildlife and wildlife habitat, vegetation, and surface water. Secondary data will be reviewed if available for Total Particulate Matter (TPM) and dust deposition. If data are available it will be added to the air quality baseline.						
251	B	5.1.1.2	56	Air Quality	Baseline concentration of other Criteria Air Contaminants expected at the mine airshed such as nitrogen oxides, SO2, and atmospheric ozone are developed during a desktop study based on data available for similar remote locations operated by EC and the private sector (e.g., mining companies).	2	B	5.1.1.2	5.1.1-11	Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4)
252	B	5.1.1.2	56	Air Quality	Air quality along the road and transmission corridors is evaluated using secondary information. The secondary information may be information collected from projects with similar activities and/or from projects in similar climatic regimes as found in the proposed Project's region or published data from previous studies.	2	B	5.1.1.2	5.1.1-11	Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4)
253	B	5.1.1.3	57	Noise and Vibration	This subsection will present a noise baseline study, which includes baseline monitoring at identified critical noise receptors as one of the fundamental components associated with the assessment of noise.	2	B	5.1.1.3	5.1.1-13	Noise and Vibration	Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4)
254	B	5.1.1.3	57	Noise and Vibration	Human dwellings are considered as noise receptors if they are continuously occupied at least six weeks per year. Active trappers' cabins and cottages usually meet this requirement.	2	B	5.1.1.3	5.1.1-13	Noise and Vibration	Figure 5.1.1.3-1: Noise and Vibration Study Areas Figure 5.1.1.3-2: Noise Baseline Monitoring Stations Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4)
255	B	5.1.1.3	57	Noise and Vibration	Wildlife receptors such as species of conservation concern and mating areas are considered.	2	B	5.1.1.3	5.1.1-13	Noise and Vibration	
256	B	5.1.1.3	57	Noise and Vibration	IRs located in the vicinity of the proposed Project will be considered as potential noise receptors. The nearest permanent dwellings are located at the IR Tatelkus Lake 28 and Tatelkuz Lake Resort (Figure 2.2 2).	2	B	5.1.1.3	5.1.1-13	Noise and Vibration	Figure 5.1.1.3-2: Noise Baseline Monitoring Stations Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4)
257	B	5.1.1.3	57	Noise and Vibration	A baseline noise survey representing 24-hour noise levels is required to describe the aerial sound features within the LSA. All fieldwork is conducted with Type 1 noise monitoring instrument. Along with noise monitoring, the weather parameters at the monitoring point such as wind speed, direction, temperature, pressure, and cloud cover are recorded because of their potential impact interaction with noise propagation. No vibrations baseline study will be undertaken. Effects of expected vibrations to be generated during operations, in particular from mine blasting activities will be described, assessed and presented in Section 5.2.2 of the Application.	2	B	5.1.1.3, Subsections 5.1.1.3.1, 5.1.1.3.2	5.1.1-14	Noise and Vibration	Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4) Figure 5.1.1.3-1: Noise and Vibration Study Areas Figure 5.1.1.3-2: Noise Baseline Monitoring Stations Table 5.1.1.3-1: Baseline Sound Parameters for Blackwater Gold Project (Estimated) and Reference Projects (Monitored) Table 5.1.1.3-2: Summary of Long-Term (37 hours) Noise Survey Results at the Proposed Mine Site Table 5.1.1.3-3: Summary of Short-Term (8 hours) Noise Survey Results at the Proposed Airstrip and Near Tatelkuz Lake Ranch

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258	B	5.1.2	57	Aquatic Environment							
259	B	5.1.2.1	57	Hydrology	This subsection will present the hydrological baseline condition of watercourses in the LSA.	2	B	5.1.2.1, Subsection 5.1.2.1.1	5.1.2-1	Hydrology	Figure 5.1.2.1-1: Surface Water Flow Study Areas
260	B	5.1.2.1	57	Hydrology	It will describe the general hydrologic setting of the area, summarize archived and historic data obtained from regional Water Survey of Canada (WSC) hydrometric stations, and the methods used to collect site flow data.	2	B	5.1.2.1, Subsections 5.1.2.1.1, 5.1.2.1.2	5.1.2-1	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Figure 5.1.2.1-1: Surface Water Flow Study Areas Figure 5.1.2.1-2: Baseline Watershed Model Discretization Figure 5.1.2.1-3: Proposed Mine Site Facilities (Year 17) with Watershed Boundaries
261	B	5.1.2.1	57	Hydrology	This subsection will include a description of watersheds affected by the mine, transmission line, access roads, and existing water use. Surface hydrology will be described along with water quality and quantity, including potential reference areas for Environmental Effects Monitoring (EEM). The surface hydrology baseline will include a description of: • Methods used;	2	B	5.1.2.1, Subsections 5.1.2.1.1, 5.1.2.1.2	5.1.2-1	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Figure 5.1.2.1-1: Surface Water Flow Study Areas Figure 5.1.2.1-2: Baseline Watershed Model Discretization Figure 5.1.2.1-3: Proposed Mine Site Facilities (Year 17) with Watershed Boundaries
262	B	5.1.2.1	58	Hydrology	• Watersheds affected by the mine, access roads, and infrastructure including local wetlands, ponds and lakes;	2	B	5.1.2.1, Subsection 5.1.2.1.1	5.1.2-1	Hydrology	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Figure 5.1.2.1-1: Surface Water Flow Study Areas Figure 5.1.2.1-2: Baseline Watershed Model Discretization Figure 5.1.2.1-3: Proposed Mine Site Facilities (Year 17) with Watershed Boundaries
263	B	5.1.2.1	58	Hydrology	• Flow data from regional hydrometric stations;	2	B	5.1.2.1, Subsections 5.1.2.1.2, 5.1.2.1.3	5.1.2-7	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1A: Tables (App Volume 5) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Table 5.1.2.1-1: Project Hydrometric Stations Table 5.1.2.1-2: Regional Hydrometric Stations Table 5.1.2.1-4: Estimated Instantaneous Peak Flows for the Project Figure 5.1.2.1-4: Regional Streamflow and Climate Stations
264	B	5.1.2.1	58	Hydrology	• Site flow monitoring data;	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1A: Tables (App Volume 5) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Figure 5.1.2.1-4: Regional Streamflow and Climate Stations Figure 5.1.2.1-5: Project Monitoring Stations
265	B	5.1.2.1	58	Hydrology	• Mean monthly and annual flows;	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1A: Tables (App Volume 5)

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											Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Table 5.1.2.1-5:Estimated Average Precipitation, rainfall, and Snow Water Equivalent for the Project
266	B	5.1.2.1	58	Hydrology	• 10-year seven-day low flow;	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Appendix 5.1.2.1A: Tables (App Volume 5) Table 5.1.2.1-6: Estimated 24-hour Extreme Precipitation for the Project
267	B	5.1.2.1	58	Hydrology	• 20 years of simulated daily flows; and	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Appendix 5.1.2.1A: Tables (App Volume 5) Table 5.1.2.1-6: Estimated 24-hour Extreme Precipitation for the Project
268	B	5.1.2.1	58	Hydrology	• Peak flood events (e.g., 1 in 200-year flood event).	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Table 5.1.2.1-4: Estimated Instantaneous Peak Flows for the Project Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.2.1-6: Estimated 24-hour Extreme Precipitation for the Project Table 5.1.2.1-7: Estimated Wet and Dry Annual Precipitation for the Project
269	B	5.1.2.1	58	Hydrology	Where potential effects on fish values and proposed fish habitat mitigation and compensation measures are presented and discussed, the information listed above are used as part of the basis for analysis of potential effects from the proposed Project.	2	B	5.1.2.1, Subsections 5.1.2.1.1, 5.1.2.1.2	5.1.2-1	Hydrology	
270	B	5.1.2.1	58	Hydrology	The hydrological program includes the following: • Establishing continuous water level recorders; • Measuring stream discharges;• Downloading continuous water level recorders and check data whenever streams are gauged;• Establishing rating curves; and • Determining the flow hydrographs.	2	B	5.1.2.1, Subsection 5.1.2.1.2.1	5.1.2-7	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Figure 5.2.1.2-2: Baseline Watershed Model Discretization Table 5.1.2.1-1: Project Hydrometric Stations Table 5.1.2.1-2: Regional Hydrometric Stations
271	B	5.1.2.1	58	Hydrology	Analyses required include flood and low flow calculations and determination of the effects of water withdrawal or discharge by the proposed Project development on flows. Analysis of the site-specific meteorological precipitation data, together with available EC data will be required to provide a measure of data representation and flow verification.	2	B	5.1.2.1, Subsection 5.1.2.1.3	5.1.2-15	Hydrology	Table 5.1.2.1-4: Estimated Instantaneous Peak Flows for the Project Table 5.1.2.1-5: Estimated Average Precipitation, Rainfall, and Snow Water Equivalent for the Project Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1A: Tables (App Volume 5) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) App 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5)
272	B	5.1.2.1	58	Hydrology	Streams in the area are generally characterized by high flows in late spring and early summer due to rain and snowmelt, and low flows in the winter. Flow data are collected from 16 hydrometric stations that were installed in the proposed Project area. These stations include 10 full hydrometric stations being used for rating curve development and six lake stations being used to record seasonal fluctuations in water levels. Instrumentation used in these studies includes Unidata dataloggers and KPSI™ temperature/pressure transducers, with surveyed water level (gauge height) obtained from bench marks installed at the stations during every site visit. Data collection activities	2	B	5.1.2.1, Subsections 5.1.2.1.2.1.1, 5.1.2.1.2.1.3	5.1.2-7	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.2.1-1: Project Hydrometric Stations Table 5.1.2.1-2: Regional Hydrometric Stations Figure 5.1.2.1-4: Regional Streamflow and Climate Stations Figure 5.1.2.1-5: Project Monitoring Stations

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					are undertaken according to guidelines given in the Manual of British Columbia Hydrometric Standards (BC MOE, 2009).						
273	B	5.1.2.1	58	Hydrology	Hydrometric stations are operated on a continuous basis throughout the open water season from April to November, as mid-winter snow and ice conditions typically interfere with the stage discharge relationship. In order to develop a reliable stage discharge curve, approximately ten flow measurements at different creek stages are required. Instantaneous flow measurements are also collected during mid-winter conditions to determine the magnitude of minimum winter stream flows, and where feasible, selected stations are operated continuously during the winter too. Additional long-term continuous hydrological data are available from local WSC hydrometric stations to support the analysis.	2	B	5.1.2.1, Subsections 5.1.2.1.2.1.1	5.1.2-7	Hydrology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.2.1-1: Project Hydrometric Stations Table 5.1.2.1-2: Regional Hydrometric Stations Figure 5.1.2.1-4: Regional Streamflow and Climate Stations Figure 5.1.2.1-5: Project Monitoring Stations
274	B	5.1.2.1	59	Hydrology	Regression analysis is carried out to develop a long-term flow series at each of the 10 hydrometric stations. This information is used to estimate return period runoff scenarios and low flows.	2	B	5.1.2.1, Subsections 5.1.2.1.2.2.1	5.1.2-13	Hydrology	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5)
275	B	5.1.2.1	59	Hydrology	Two years of data are currently available from three of the hydrometric monitoring stations. The remaining baseline monitoring network of stations was commissioned in early 2012.	2	B	5.1.2.1, Subsections 5.1.2.1.2.1.1	5.1.2-7	Hydrology	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5)
276	B	5.1.2.2	59	Surface Water and Sediment Quality	This subsection will present the methods and results for baseline characterization for surface water and sediment quality. This subsection will present an overview of the surface water quality baseline condition of watercourses within the LSA and RSA. It will describe the general water chemistry of streams in watersheds within the LSA and RSA. Sampling, laboratory analysis and reporting methodology conform to that contained in the latest BC MOE monitoring guide for mine operators and Proponents (BC MOE, 2012). Monthly water quality monitoring began in early spring 2011 and was conducted until Q3 2013. Quarterly monitoring started in Q4 in 2013 and is ongoing. Weekly freshet monitoring is conducted three times: in 2011, 2012, and 2013. A standard list of parameters including physical parameters, nutrients, major ions, and trace metals is being assayed.	2	B	5.1.2.2	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6) Figure 5.1.2.2-1: Surface Water Quality Monitoring Sites
277	B	5.1.2.2	59	Surface Water and Sediment Quality	The Application will present a figure showing each monitoring station (refer to Figure 4.3 3), as well as a summary table showing mean and 95th percentile of water quality results along with protection of aquatic life guidelines.	2	B	5.1.2.2, Subsections 5.1.2.2.1, 5.1.2.2.1.3	5.1.2-19	Surface Water and Sediment Quality	Figure 5.1.2.2-1: Surface Water Quality Monitoring Sites Table 5.1.2.2-1: Mean Stream Surface Water Quality Summary for the Project Table 5.1.2.2-2: 95th Percentile Surface Water Quality Summary Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
278	B	5.1.2.2	59	Surface Water and Sediment Quality	The water quality baseline report will be presented as an appendix to this section of the Application including data collected to the middle of June 2013. Figure 5.1 1 shows the location of the hydrology station/watershed model nodes.	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6) Figure 5.1.2.2-1: Surface Water Quality Monitoring Sites

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279	B	5.1.2.2	59	Surface Water and Sediment Quality	Streams in the area are generally low in nutrients and dilute (low Total Dissolved Solids, low hardness). Some trace metals are somewhat elevated, as might be expected in a mineralized area.	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-24	Surface Water and Sediment Quality	Table 5.1.2.2-1: Mean Stream Surface Water Quality Summary for the Project Table 5.1.2.2-2: 95th Percentile Surface Water Quality Summary Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
280	B	5.1.2.2	59	Surface Water and Sediment Quality	Contents of surface water quality baseline report include: • Proposed Project setting;	2	B	5.1.2.2, Subsection 5.1.2.2.1	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
281	B	5.1.2.2	59	Surface Water and Sediment Quality	• General characterization of proposed Project area streams;	2	B	5.1.2.2	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
282	B	5.1.2.2	59	Surface Water and Sediment Quality	• Rationale for including surface water quality as a VC;	2	B	5.1.2.2	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
283	B	5.1.2.2	59	Surface Water and Sediment Quality	• Sampling methodology;	2	B	5.1.2.2, Subsection 5.1.2.2.1.2.3	5.1.2-23	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
284	B	5.1.2.2	59	Surface Water and Sediment Quality	• Analysis methodology;	2	B	5.1.2.2, Subsection 5.1.2.2.1.2.5	5.1.2-24	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
285	B	5.1.2.2	59	Surface Water and Sediment Quality	• Reporting methodology;	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-24	Surface Water and Sediment Quality 2011 - 2013 Baseline Report	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
286	B	5.1.2.2	59	Surface Water and Sediment Quality	• Major parameter results and discussion;	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-24	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)

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											Table 5.1.2.2-1: Mean Stream Water Quality Summary for the Project Table 5.1.2.2-2: 95th Percentile Surface Water Quality Summary Table 5.1.2.2-3: Steam Mean Concentration Exceedances Table 5.1.2.2-4: Exceedance Count for Provincial and Federal Protection of Aquatic Life Guidelines Table 5.1.2.2-5: Lake Water Quality Summary Means
287	B	5.1.2.2	59	Surface Water and Sediment Quality	• Minor parameter results and discussion; and	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-24	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6) Table 5.1.2.2-1: Mean Stream Water Quality Summary for the Project Table 5.1.2.2-2: 95th Percentile Surface Water Quality Summary Table 5.1.2.2-3: Steam Mean Concentration Exceedances Table 5.1.2.2-4: Exceedance Count for Provincial and Federal Protection of Aquatic Life Guidelines Table 5.1.2.2-5: Lake Water Quality Summary Means
288	B	5.1.2.2	59	Surface Water and Sediment Quality	• Conclusions.	2	B	5.1.2.2, Subsection 5.1.2.2.1.3	5.1.2-24	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)
289	B	5.1.2.2	61	Surface Water and Sediment Quality	Sediment Quality This subsection will present the sediment quality baseline condition. Sediment chemistry is sampled at all surface water monitoring sites during summer low flows in 2011 and 2012; two stream stations added in late 2012 were sampled in 2013 (WQ15 and WQ16) along with Tatelkuz and Snake Lakes and Lakes 6182, 4123, and 1538. The methodology is compliant with BC MOE guidelines (BC MOE, 2012). Results using the BC MOE Strong Acid Leach Method indicate a number of exceedances of guidelines, which is expected since the method imposes a very harsh leaching condition using strong acid and results are not representative of natural leaching rates in water bodies.	2	B	5.1.2.2, Subsection 5.1.2.2.2	5.1.2-38	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6) Table 5.1.2.2-6: Sediment Sampling Program Table 5.1.2.2-7: Exceedances of CCME and BC MOE Sediment Guidelines in Project Area Streams Table 5.1.2.2-8: Blackwater Stream Sediment Summary Table 5.1.2.2-9: Lake Sediment Mean Concentrations
290	B	5.1.2.2	61	Surface Water and Sediment Quality	Sediment quality baseline reporting will be included in the surface water quality report and will follow the same general format.	2	B	5.1.2.2	5.1.2-19	Surface Water and Sediment Quality	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6)

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291	B	5.1.2.3	61	Hydrogeology	This subsection will present the methods and results for baseline characterization for hydrogeology in the LSA. Baseline characterization consists of the review of available data and on-site field investigations. The review of available data includes: • Current groundwater use in the area;	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
292	B	5.1.2.3	61	Hydrogeology	• Published geology and hydrogeology reports;	2	B	5.1.2.3	5.1.2-44	Hydrogeology	
293	B	5.1.2.3	61	Hydrogeology	• Geological maps, watershed maps, and aerial photography;	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5)
294	B	5.1.2.3	61	Hydrogeology	• Geological conditions based on drill hole and test pit data; and	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1)
295	B	5.1.2.3	61	Hydrogeology	• Climate and hydrometeorology data.	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4)
296	B	5.1.2.3	61	Hydrogeology	Hydrogeology on-site field investigations include: • Installation of groundwater monitoring wells and water flow and quality sampling;	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
297	B	5.1.2.3	61	Hydrogeology	• Determination of groundwater levels and seasonal variation; and	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
298	B	5.1.2.3	61	Hydrogeology	• Completion of hydraulic testing.	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
299	B	5.1.2.3	61	Hydrogeology	Using the results of the field investigations, a conceptual groundwater flow model is prepared considering the following: • A watershed model is prepared to simulate monthly stream flows in the areas of the proposed mine. It uses climate records, streamflow records, and the conceptual groundwater model to develop monthly stream flows over a period of record. The model includes groundwater recharge, groundwater storage, and groundwater discharge. The watershed model includes an evaluation of the precipitation, snow melt, evapotranspiration, infiltration, and runoff conditions; and	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
300	B	5.1.2.3	61	Hydrogeology	• A numerical groundwater flow model will be used to simulate baseline groundwater flow conditions. The numerical model includes the assumptions developed as part of the conceptual model and the parameters and outputs of the watershed model, and is calibrated to on-site measurements.	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
301	B	5.1.2.3	62	Hydrogeology	The hydrogeology baseline report will present the following results: • General description of the geographic setting, landforms, topography, drainage, climate, soil types, geomorphologic conditions;	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
302	B	5.1.2.3	62	Hydrogeology	• General description of geologic setting, type and nature of geologic materials, vertical and lateral extent of geologic units, stratigraphy, and structural features;	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
303	B	5.1.2.3	62	Hydrogeology	• Locations and descriptions of hydrogeologic units, areal extent and thickness, properties (hydraulic conductivity, etc.);	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Table 5.1.2.3-1: In Situ Hydraulic Conductivity Test Results Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
304	B	5.1.2.3	62	Hydrogeology	• Assessment of groundwater use, including amount and source(s) of groundwater recharge and discharge, quantity of groundwater storage, current amount of groundwater extraction, potential amount available for future groundwater extraction;	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.3.5A: Numerical Groundwater Modelling Report (App Volume 16)

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305	B	5.1.2.3	62	Hydrogeology	• Description of local and regional groundwater levels, flow regime, and rates of movement;	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
306	B	5.1.2.3	62	Hydrogeology	• Evaluation of surface water/groundwater quantity interaction; and	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Table 5.1.2.3-1: In Situ Hydraulic Conductivity Test Results Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
307	B	5.1.2.3	62	Hydrogeology	• Evaluation of groundwater level data and hydraulic testing data.	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Table 5.1.2.3-1: In Situ Hydraulic Conductivity Test Results Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
308	B	5.1.2.3	62	Hydrogeology	Hydrogeologic maps and cross-sections outlining the extent of hydrogeologic units, locations of water wells, drill holes and instrumentation (e.g., piezometers, monitoring wells) springs, (potentiometric) water level contours, directions and rates of groundwater flow and locations of surface water courses will be provided in the Application. Technical guidance for the design of the hydrogeology program and data collection methods considers BC MOE (2012) and direction provided by provincial and federal agency staff.	2	B	5.1.2.3, Subsection 5.1.2.3.2	5.1.2-45	Hydrogeology	Table 5.1.2.3-1: In Situ Hydraulic Conductivity Test Results Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
309	B	5.1.2.4	62	Groundwater Quality	This subsection will present the methods and results for groundwater quality characterization. The groundwater quality-sampling program is developed on the basis of the piezometers installed as part of the hydrogeology baseline characterization described in Section 5.1.2.3 and in accordance with the Water and Air Baseline Monitoring Guidance Document for Mine Proponents and Operators (BC MOE, 2012).	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	Appendix 5.1.2.4A: Blackwater Gold Project – 2012 Groundwater Quality Data Collection Summary (Knight Piésold Ltd.) (App Volume 8) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Figure 5.1.2.4-1: Groundwater Quantity and Groundwater Quality Study Areas
310	B	5.1.2.4	62	Groundwater Quality	The proposed scope of work includes the following: • Review of methods for geological interpretation, well design and well installation;	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	Figure 5.1.2.4-2: Groundwater Monitoring Wells
311	B	5.1.2.4	62	Groundwater Quality	• Confirmation of sampling protocols for the list of elements analyzed;	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	
312	B	5.1.2.4	62	Groundwater Quality	• Review of data obtained from other sources;	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	
313	B	5.1.2.4	62	Groundwater Quality	• Collation of groundwater quality sampling results;	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	
314	B	5.1.2.4	62	Groundwater Quality	• Interpretation and analysis of groundwater quality results; and	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	Table 5.1.2.4-1: Summary of Average Groundwater Chemistry
315	B	5.1.2.4	62	Groundwater Quality	• Production of groundwater quality baseline report. Figure 5.1 2 shows the locations of the groundwater monitoring wells.	2	B	5.1.2.4	5.1.2-55	Groundwater Quality	Appendix 5.1.2.4A: Blackwater Gold Project – 2012 Groundwater Quality Data Collection Summary (Knight Piésold Ltd.) (App Volume 8) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Figure 5.1.2.4-2: Groundwater Monitoring Wells
316	B	5.1.2.5	64	Wetlands	This subsection will describe the baseline condition of wetlands. The wetland baseline program is designed to classify and describe (including primary wetland functions) wetlands within the LSA. Wetlands are classified in accordance with the provincial wetland	2	B	5.1.2.5,	5.1.2-63	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Table 5.1.2.5-1: Description of Wetland Study

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					guide, Wetlands of British Columbia: A Guide to Identification (MacKenzie and Moran, 2004). Once classified, three primary wetland functions (i.e., hydrological, biochemical, and ecological/habitat) are described.			Subsections 5.1.2.5.2.1, 5.1.2.5.4			Areas Figure 5.1.2.5-1: Map of Wetland Study Areas Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
317	B	5.1.2.5	64	Wetlands	Hydrological Function Wetland hydrogeomorphological studies are conducted at representative wetlands in the proposed Project area. These studies provide hydrological characteristic of the area that could be used to infer the hydrology of wetlands throughout the baseline study areas.	2	B	5.1.2.5, Subsections 5.1.2.5.2.2, 5.1.2.5.3.2	5.1.2-63	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
318	B	5.1.2.5	64	Wetlands	Biochemical Wetland Function In-situ field measurements are collected within a pre-selected wetland system to identify pH, conductivity, dissolved oxygen, and temperature. Composite surface water samples are also collected and analyzed for routine indicators, major ions, chlorophyll a, nutrients, total and dissolved metals, and dissolved organic carbon. Sampling protocols were adhered to in accordance with provincial standards (Clark, 2003).	2	B	5.1.2.5, Subsections 5.1.2.5.2.2, 5.1.2.5.4	5.1.2-63	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
319	B	5.1.2.5	64	Wetlands	Ecological Wetland Function Ecological wetland function is described using the following techniques (MacKenzie and Moran, 2004): • Wetlands are mapped to the wetland class or site association level communities based on Terrestrial Ecosystem Mapping (TEM) field data collections;	2	B	5.1.2.5, Subsections 5.1.2.5.2.2	5.1.2-64	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Table 5.1.2.5-2: Wetland Classes and Distribution in Mine Site, LSA, and RSA Table 5.1.2.5-3: Area of Wetland Classes in Linear Features Study Areas Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
320	B	5.1.2.5	64	Wetlands	• Rare and sensitive wetland ecosystems were identified by biogeoclimatic (BGC) subzone and compared against a list generated by the BC Conservation Data Centre (BC CDC, 2012) of wetland associations within the regional forest district. Wetlands are identified via species abundance, composition, and site characteristics within the wetland communities and native wetland species supported by the wetland (BC CDC, 2012); and	2	B	5.1.2.5, Subsection 5.1.2.5.5	5.1.2-69	Wetlands	Table 5.1.2.5-5: Confirmed At-Risk Wetland Ecosystems in the Wetland Study Area Table 5.1.2.5-6: At-Risk Wetland Plant Species Found in the Blackwater Project Area Figure 5.1.2.5-3: Verified At-Risk Plant Species and Wetland Ecosystems in the Vicinity of the Mine Site Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
321	B	5.1.2.5	64	Wetlands	• Provincially at risk wetlands (Red- and Blue-listed) are also identified and mapped (BC CDC, 2012).	2	B	5.1.2.5, Subsection 5.1.2.5.5	5.1.2-69	Wetlands	Table 5.1.2.5-5: Confirmed At-Risk Wetland Ecosystems in the Wetland Study Area Figure 5.1.2.5-3: Verified At-Risk Plant Species and Wetland Ecosystems in the Vicinity of the Mine Site Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
322	B	5.1.2.5	64	Wetlands	Habitat Wetland Function A list of potentially occurring wildlife species (amphibians, birds, mammals, and odonates) is developed for each wetland classification. Once identified, a habitat function value is determined based on biological productivity and biodiversity support (Hanson et al., 2008).	2	B	5.1.2.5, Subsection 5.1.2.5.6	5.1.2-71	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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323	B	5.1.2.5	64	Wetlands	The main results of the wetland baseline characterization program include the following information: • A wetland map that identifies wetlands within the LSA; and	2	B	5.1.2.5, Subsection 5.1.2.5.5	5.1.2-69	Wetlands	Figure 5.1.2.5-3: Verified At-Risk Species and Wetland Ecosystems in the Vicinity of the Mine Site Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
324	B	5.1.2.5	64	Wetlands	• Wetland functional values (hydrological, biochemical, and ecological/habitat).	2	B	5.1.2.5, Subsection 5.1.2.5.6	5.1.2-71	Wetlands	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Figure 5.1.2.5-2: Distribution of Hydrogeomorphic Classes for 157 Select Wetlands in and around the Mine Site Study Area Table 5.1.2.5-4: Number of Elemental Chemistry Exceedances by Wetland Type
325	B	5.1.2.6	65	Fish and Fish Habitat	This subsection will present the methods and expected results of the baseline characterization for fish and fish habitat. Fish The methods to conduct baseline characterization of fish include the following: • Review of historical fishing effort and catch data from provincial databases, available consultants reports and from private forestry inventory records;	2	B	5.1.2.6, Subsections 5.1.2.6.1, 5.1.2.6.2.1	5.1.2.6-73	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
326	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of spring spawning migrations of rainbow trout using upstream and downstream hoop nets over a three-week period at eight locations in streams potentially affected by the proposed Project;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
327	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of fall mountain whitefish migrations using short set upstream hoop nets at four locations in streams potentially affected by the proposed Project;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
328	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of species composition and relative abundance in four lakes near to the proposed Project site using provincial standard (Resource Inventory Committee (RIC), 2001) floating and sinking gillnets set for short periods to reduce mortality;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Figure 5.1.2.6-14: Fish Sample Sites, Tatelkuz Lake, 2013 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
329	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of the absolute number of kokanee and rainbow trout in Tatelkuz Lake using hydroacoustic methods, and estimation of absolute number of rainbow trout in the three headwater lakes by	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11)

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					extrapolation of rainbow trout density (i.e., number/hectare (ha) lake surface area) measured in Tatelkuz Lake to headwater lakes;						Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
330	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of streambank counts and aerial surveys to understand the distribution and relative abundance of kokanee spawning in streams potentially affected by the proposed Project and in regional streams potentially used by kokanee;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-12: Kokanee Survey Sites, Regional Study Area, 2012 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
331	B	5.1.2.6	65	Fish and Fish Habitat	• Assessment of species composition, relative abundance, length and age structure, growth and health of different fish populations in streams potentially affected by the proposed Project using catches from electrofishing, minnow traps and angling;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-7: Fish Sampling Sites, Davidson Creek Watershed, 2011-2012 Figure 5.1.2.6-8: Fish Sampling Sites, Turtle Creek Watershed, 2011-2012 Figure 5.1.2.6-9: Fish Sampling Sites, Creek 661 Watershed, 2011-2012 Figure 5.1.2.6-10: Fish Sampling Sites, Creek 705 Watershed, 2011-2012 Figure 5.1.2.6-11: Fish Sampling Sites, Tatelkuz Lake Tributaries Watershed, 2012 Figure 5.1.2.6-13: Overwintering Fish Habitat Survey, March 2012 and March 2013 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
332	B	5.1.2.6	65	Fish and Fish Habitat	• Collection and analysis of samples of rainbow trout muscle, liver and whole-body tissue in streams and lakes of the LSA, and collection analysis of mountain whitefish muscle, liver and whole-body tissue in Tatelkuz Lake to establish baseline total metal concentrations for potentially affected streams and lakes; and	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
333	B	5.1.2.6	65	Fish and Fish Habitat	• Collection of DNA samples from rainbow trout and kokanee in streams potentially affected by the proposed Project and collection of kokanee samples in regional streams.	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
334	B	5.1.2.6	65	Fish and Fish Habitat	The fish baseline characterization program will provide the following results: • Results of historical and present surveys will be summarized with	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.2	5.1.2-164	Fish and Fish Habitat	Table 5.1.2.6-25: Fish Species Captured in the LSA Table 5.1.2.6-26: Fish Species Present in the LSA and RSA Appendix 5.1.2.6A: Fish and Aquatic Resources

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					respect to the species composition, distribution and relative abundance of species captured;						2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
335	B	5.1.2.6	65	Fish and Fish Habitat	• Estimates of run size, run timing, upstream distribution, and habitat use will be presented for rainbow trout, the spring spawning species captured;	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5	5.1.2-191	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
336	B	5.1.2.6	65	Fish and Fish Habitat	• Mean length, weight, age, and condition factor will be calculated for rainbow trout, the only species captured in sufficient numbers to support analyses;	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5.11	5.1.2-210	Fish and Fish Habitat	Table 5.1.2.6-42: Mean Length, Weight, Condition Factor, and Age of Rainbow Trout, Blackwater Study Area, 2011-2013 Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
337	B	5.1.2.6	65	Fish and Fish Habitat	• Length and age frequency distributions and length-weight relationships, mean length at age, mean age, and mean length and age at maturity will be presented for rainbow trout;	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5.11	5.1.2-210	Fish and Fish Habitat	Figure 5.1.2.6-70: Growth in Length of Rainbow Trout Populations of the LSA, 2011-2013 Figure 5.1.2.6-71: Plot of Percent Maturity on Length of Rainbow Trout, Blackwater Study Area, 2011 and 2012 Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
338	B	5.1.2.6	65	Fish and Fish Habitat	• Diet data will be presented for rainbow trout;	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5.13	5.1.2-214	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9)

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339	B	5.1.2.6	65	Fish and Fish Habitat	• Where captures will be sufficient, summer habitat use will be presented by species and life stages;	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5.2	5.1.2-191	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
340	B	5.1.2.6	65	Fish and Fish Habitat	• Mean tissue metals concentrations will be summarized for representative fish species (e.g., rainbow trout and mountain whitefish). Results will be compared to provincial fish tissue guidelines for the protection of piscivorous wildlife; and	2	B	5.1.2.6, Subsection 5.1.2.6.3.2.5.14	5.1.2-215	Fish and Fish Habitat	Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
341	B	5.1.2.6	65	Fish and Fish Habitat	• Genetic similarity of rainbow trout and kokanee populations will be compared to other BC populations for which genetic data exist. Genetic similarity between fish captured in different locations within the study area will be compared where appropriate. The number and spatial distribution of breeding populations of both species in the LSA will be identified.	2	B	5.1.2.6, Subsections 5.1.2.6.3.2.4.3, 5.1.2.6.3.2.5.3	5.1.2-172 & 5.1.2-192	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
342	B	5.1.2.6	66	Fish and Fish Habitat	Fish Habitat The methods to conduct baseline characterization of fish habitat include the following: • Review of historical fish habitat inventory information obtained from provincial databases, available consultants reports and from private forestry inventory records;	2	B	5.1.2.6, Subsection 5.1.2.6.2.1	5.1.2-80	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
343	B	5.1.2.6	66	Fish and Fish Habitat	• Characterization of fish habitat in study streams is characterized two standard methods: Fish Habitat Assessment Procedure (FHAP) (Johnston and Slaney, 1996) and the Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures (RIC, 2001): o Continuous FHAP sampling is conducted for Davidson Creek within the proposed TSF site;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Figure 5.1.2.6-5: FHAP 2011, 2012 and 2013 Figure 5.1.2.6-6: Fish Habitat Inventory 2011, 2012 and 2013

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
344	B	5.1.2.6	66	Fish and Fish Habitat	o Modified FHAP sampling is conducted for 250 m sections around fish sampling sites in selected streams; and	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
345	B	5.1.2.6	66	Fish and Fish Habitat	o Reconnaissance 1:20,000 site cards were completed for smaller streams within the proposed Project area and at stream crossings along the proposed access road and transmission line alignment;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
346	B	5.1.2.6	66	Fish and Fish Habitat	• Collection of continuous water temperature data at selected sites within streams potentially affected by the proposed Project;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Figure 5.1.2.6-3: Locations of Stream Temperature Data Loggers in the LSA, 2011-2012 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
347	B	5.1.2.6	66	Fish and Fish Habitat	• Collection of winter dissolved oxygen measurements at selected sites within streams potentially affected by the proposed Project;	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
348	B	5.1.2.6	66	Fish and Fish Habitat	• Installation of instream flow transects in run, riffle and pool habitats in Davidson Creek, Creek 661 and Chedakuz Creek to establish relationships between stream discharge and depth, water velocity, and useable habitat area (Lewis et al., 2004);	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
349	B	5.1.2.6	66	Fish and Fish Habitat	• Surveys of lake habitat in three lakes using a modified primary lake survey (RIC, 2001);	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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350	B	5.1.2.6	66	Fish and Fish Habitat	• Assessment of benthic macroinvertebrate (BMI) communities in proposed Project area streams using Canadian Aquatic Biomonitoring Network (CABIN) and modified CABIN protocols;	2	B	5.1.2.6, Subsection 5.1.2.6.2.3	5.1.2-82	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
351	B	5.1.2.6	66	Fish and Fish Habitat	• Benthic macroinvertebrate and phytoplankton communities in proposed Project area lakes were assessed using standardized protocols (Jones et al., 2007; Clark, 2003); and	2	B	5.1.2.6, Subsections 5.1.2.6.2.3, 5.1.2.6.2.4	5.1.2-82	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-4: Locations of Periphyton and Benthic Macroinvertebrate Sampling Sites, Blackwater LSA, 2011-2012 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
352	B	5.1.2.6	66	Fish and Fish Habitat	• Collection and analysis of benthic macroinvertebrates to characterize tissue metal concentrations in streams where rainbow trout were the dominant fish species.	2	B	5.1.2.6, Subsection 5.1.2.6.2.4	5.1.2-83	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
353	B	5.1.2.6	66	Fish and Fish Habitat	The fish habitat baseline characterization program will provide the following results:	2	B	5.1.2.6, Subsection 5.1.2.6.3	5.1.2-108	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
354	B	5.1.2.6	66	Fish and Fish Habitat	• Results of historical and present habitat surveys will be summarized and mapped with respect to the distribution and quality of habitat present for different fish species;	2	B	5.1.2.6, Subsection 5.1.2.6.3.1.1.4	5.1.2-111	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-16: Mean Monthly Flows of the

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											Five Streams of the LSA Figure 5.1.2.6-17: Mean Monthly Flows at Hydrometric Stations along Davidson Creek Figure 5.1.2.6-18: Mean Monthly Flows of Davidson Creek for Wet and Dry Years Figure 5.1.2.6-19: Fish Habitat Quality Figure 5.1.2.6-20: Riparian Areas in the Fish and Fish Habitat LSA Figure 5.1.2.6-21: Characteristics of Riparian Areas in the Fish and Fish Habitat LSA Figure 5.1.2.6-22: Mean Monthly Stream Temperature in Watersheds of the LSA, 2011 – 2012 Figure 5.1.2.6-23: Mean Daily Stream Temperature in Lower Davidson Creek (Site H4), 2011 – 2013 Figure 5.1.2.6-24: Mean Daily Stream Temperature in Middle Davidson Creek (Site H2), 2011 – 2013 Figure 5.1.2.6-25: Mean Daily Stream Temperature in Upper Davidson Creek (Site H10), 2011 – 2013 Figure 5.1.2.6-26: Water Temperature Envelope of Lower and Middle Davidson Creek (blue) Compared to BC Guidelines for Rainbow Trout Spawning (Green), Incubation (Purple), and Rearing (Orange) Figure 5.1.2.6-27: Observed Water Temperature Envelope of Lower and Middle Davidson Creek (blue) Compared to BC Guidelines for Kokanee Migration (red), Spawning (green), and Incubation (purple) Table 5.1.2.6-6: Habitat Parameters for All Streams Surveyed in the LSA, 2011-2013 Table 5.1.2.6-7: Fish Habitat Area in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-8: Fish Habitat Units in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-9: Quality of Overwintering Habitat in Streams, Blackwater LSA, March 2012 and March 2013 Table 5.1.2.6-10: Surface Area of Shallow Open-Water Wetlands in the Aquatics LSA in Relation to Rainbow Trout Stream Habitat Table 5.1.2.6-11: Riparian Areas of Fish-Bearing Streams and Lakes within the Aquatics LSA Derived from GIS Mapping Table 5.1.2.6-12: Riparian Areas of Streams and Lakes in the Mine Site Footprint Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
355	B	5.1.2.6	66	Fish and Fish Habitat	• Relationships between discharge and fish habitat will be modelled to support prediction of potential project effects on flow and fish habitat;	2	B	5.1.2.6, Subsection 5.1.2.6.3.1.1.2	5.1.2-110	Fish and Fish Habitat	Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Appendix 5.1.2.6E: Blackwater Gold Project Effects Assessment of Davidson Creek Flow Augmentation on Homing of Salmonid Fish

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											(AMEC E&I) (App Volume 12) Appendix 5.3.2C: Blackwater Gold Project Tatelkuz Lake IFN Withdrawal Model Letter (Knight Piésold Ltd.) (App Volume 15) Figure 5.1.2.6-15: Instream Flow Overview Table 5.1.2.6-5: Stream Habitat Quality Ranking Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
356	B	5.1.2.6	66	Fish and Fish Habitat	• Benthic macroinvertebrate communities in study area streams and lakes will be characterized by dominance structure, taxa richness, and diversity and evenness indices; and	2	B	5.1.2.6, Subsection 5.1.2.6.3.1.1.9	5.1.2-133	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Table 5.1.2.6-14: Habitat Characteristics Associated with Stream BMI Groups Figure 5.1.2.6-29: Metric Comparisons of Project Benthic Invertebrate Site Groupings (A – E) Figure 5.1.2.6-30: An MDS Ordination Comparing Project BMI Communities to those of the Skeena and Fraser Reference Condition Models Figure 5.1.2.6-31: RIVPACS Analysis of BMI Communities using the Skeena 2010 Reference Model Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
357	B	5.1.2.6	66	Fish and Fish Habitat	• Mean metal concentrations in benthic macroinvertebrate tissues will be summarized in tables.	2	B	5.1.2.6, Subsection 5.1.2.6.3.1.1.9.2	5.1.2-137	Fish and Fish Habitat	Table 5.1.2.6-15: Mean Metal Concentrations in Lake and Stream BMI Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
358	B	5.1.3	67	Terrestrial Environment							
359	B	5.1.3.1	67	Geology and Geochemistry	This subsection will present the methods of the baseline characterization for geology and geochemistry. Geology and geochemistry baseline characterization is conducted during 2011, 2012 and 2013 with the dual purpose of supporting the design of mine waste and mine water management facilities and the assessment of potential effects on surface and groundwater quality. The methods used for baseline characterization are described below. Data Review and Gap Analysis Data review and gap analysis involves the data review of deposit	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Figure 5.1.3.1-1: Blackwater Project Location and Tectono-stratigraphic Setting

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					geology and exploration multi-element Inductively Coupled Plasma – Mass Spectroscopy (ICP-MS) database.						
360	B	5.1.3.1	68	Geology and Geochemistry	Site Investigation, Sampling, and Analysis The focus of additional geochemical evaluations is on anticipated future production of mine waste (rock and tailings) and open pit walls. Geochemical investigations include the following: • Detailed assessment of future waste production by lithology and alteration, as well as sulphur and carbonate content (acid rock drainage (ARD) block model); • Sampling and analysis of these waste units with appropriate spatial and volumetric coverage; • Sampling and analysis of material representing anticipated final pit wall exposure; • Analysis of metallurgical test products (i.e., tailings); • Prediction of chemical loading from anticipated facilities using laboratory data; • Chemical analysis will be completed by a qualified commercial laboratory in BC.	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Figure 5.1.3.1-2: Rate of Lithospheric Uplift Figure 5.1.3.1-3: Top of Bedrock Geology in Vicinity of Blackwater Deposit Table 5.1.3.1-2: Measured, Indicated, and Inferred Resources Table 5.1.3.1-3: Geochemistry Testwork Summary Table 5.1.3.1-4: Acid Rock Drainage Classification of Project Samples Table 5.1.3.1-5: Waste Rock and Overburden Tonnages
361	B	5.1.3.1	68	Geology and Geochemistry	The analysis will include the following: o Mineralogy (optical and Quantitative X-Ray Diffraction);	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
362	B	5.1.3.1	68	Geology and Geochemistry	o Multi-element geochemistry by ICP-MS (including low detection limit arsenic, mercury, selenium, and cadmium, if required);	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
363	B	5.1.3.1	68	Geology and Geochemistry	o Acid-base accounting (ABA) with modified Sobek NP and sulphur speciation;	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
364	B	5.1.3.1	68	Geology and Geochemistry	o Shake flask extraction (SFE) test for leachable metals; and	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
365	B	5.1.3.1	68	Geology and Geochemistry	o Humidity cell and other kinetic tests, as appropriate. All samples will be submitted for ABA and ICP-MS, whereas a sub-set will be submitted for mineralogy and SFE. The static testing results are used to guide the selection of representative and worst-case samples for laboratory based kinetic testing. Both humidity cell and column tests will be used to investigate mineral reaction and metal leaching rates. Procedures follow those recommended in Price (1997) and Price (2009).	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
366	B	5.1.3.1	68	Geology and Geochemistry	The results of the geology and geochemistry characterization program are documented in a baseline report. The report will present the mineralogy and metal leaching / acid rock drainage (ML/ARD) characteristics for overburden, ore, waste rock, and tailings.	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
367	B	5.1.3.1	68	Geology and Geochemistry	Data from the kinetic testing program will also be presented together with the prediction of chemical loading from anticipated facilities using laboratory data.	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8 5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.1.3.1-3 Geochemistry Testwork Summary Table 5.1.3.1-4: Acid Rock Drainage Classification of Project Samples

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368	B	5.1.3.1	68	Geology and Geochemistry	Both static and kinetic test results guide waste management practices to prevent or minimize ML/ARD. These practices will be described with greater detail in the surface water quality and groundwater quality effects assessment. The goal of the ML/ARD prevention plan is to ensure that mine site discharge water quality does not exceed the BC water quality guideline values. The ML/ARD characterization is robust program that uses industry best practices to understand the geochemical behaviour of the waste rock, ore, and tailings. The testing program followed the recommendations in Price (1997) and Price (2009).	2	B	5.1.3.1, Subsection 5.1.3.1.8	5.1.3-8	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
369	B	5.1.3.2	69	Soils and Terrain	This subsection will present the methods and results of the baseline characterization for the soils, terrain, and surficial geology. The methods proposed to conduct baseline characterization include the following: • The baseline information is compiled using the results of field sampling programs, literature reviews, interpretation of aerial photography and Light Detecting and Ranging (LiDAR) and existing provincial mapping information;	2	B	5.1.3.2, Subsection 5.1.3.2.2	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Figure 5.1.3.2-1: Soils Local and Regional Study Areas Blackwater Gold Project Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
370	B	5.1.3.2	69	Soils and Terrain	• The methods for conducting terrain mapping follows the provincial mapping conventions outlined in Howes and Kenk (1997) and RIC (1998). The combination of both the LiDAR hillshade and the high resolution ortho-photography is utilized during the baseline assessment;	2	B	5.1.3.2, Subsection 5.1.3.2.2	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
371	B	5.1.3.2	69	Soils and Terrain	• An integrated approach with ecosystem mapping will be completed based on the guidelines presented in Standards for TEM in British Columbia (RIC, 1998);	2	B	5.1.3.2, Subsection 5.1.3.2.2.2	5.1.3-15	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
372	B	5.1.3.2	69	Soils and Terrain	• On-site field surveys for soil and terrain are completed to support the baseline mapping. A stratified Survey Intensity Level (SIL) approach for field data collection is applied based on the RSA, LSA, and the proposed Project footprint. The SIL for each project area is based on the on-site investigation of a required percentage of defined polygons;	2	B	5.1.3.2, Subsection 5.1.3.2.2.2	5.1.3-15	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
373	B	5.1.3.2	69	Soils and Terrain	• Soil samples for laboratory analysis are collected at selected sites in order to verify the field identification of soil great group, to provide data for land use interpretations and provide the baseline levels of trace metals;	2	B	5.1.3.2, Subsection 5.1.3.2.2.2	5.1.3-15	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
374	B	5.1.3.2	69	Soils and Terrain	• The baseline metal levels will be compared against the BC Contaminated Sites Regulation (Government of BC, 1996a) soil standards for urban park and industrial use, and against the Canadian Council of Ministers of the Environment (CCME) (2007) soil quality guidelines for residential/parkland and industrial use. The rationale for use of these standards will be presented in the Application;	2	B	5.1.3.2, Subsection 5.1.3.2.2.2	5.1.3.2-15	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
375	B	5.1.3.2	69	Soils and Terrain	• Based on the terrain and surficial geology map developed for the RSA and LSA, a soil map is developed by assigning a soil attribute to each decile of the terrain. This combination of multiple soil attributes within a single terrain polygon is termed a Soil Map Unit (SMU);	2	B	5.1.3.2, Subsection 5.1.3.2.2.4	5.1.3-17	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.1.3.2-1: Soil Depth and Soil Horizons Table 5.1.3.2-2: Summary of Soil Associations in the Project Study Area

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
376	B	5.1.3.2	69	Soils and Terrain	• Terrain stability ratings are assigned to each terrain polygon through aerial photograph and LiDAR interpretation based on the criteria outlined in Mapping and Assessing Terrain Stability Guidebook (BC Ministry of Forests (BC MOF) and BC MOE, 1999);	2	B	5.1.3.2, Subsection 5.1.3.2.2.6	5.1.3-17	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
377	B	5.1.3.2	69	Soils and Terrain	• The suitability of soils for reclamation purposes is derived by applying the criteria recommended by the BC Ministry of Energy (1998). These criteria are adapted from Soil Quality Relative to Disturbance and Reclamation (Alberta Soils Advisory Committee, 1987); and	2	B	5.1.3.2, Subsection 5.1.3.2.2.5	5.1.3-17	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
378	B	5.1.3.2	69	Soils and Terrain	• Spatial statistics for the RSA and LSA are generated using digital map files and ArcMAP® Geographic Information System (GIS) software.	2	B	5.1.3.2, Subsection 5.1.3.2.2.1	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
379	B	5.1.3.2	70	Soils and Terrain	The baseline report submitted for the Application will include figures and detailed descriptive text outlining the baseline conditions of the study area.	2	B	5.1.3.2, Subsection 5.1.3.2.3	5.1.3-18	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
380	B	5.1.3.2	70	Soils and Terrain	The reporting of baseline soil conditions includes an interpretation of terrain and surficial geology, development of SMUs, identification of suitability of reclamation material, assessment of terrain stability, and the presentation of baseline metal analysis for the soils of the study areas.	2	B	5.1.3.2, Subsection 5.1.3.2.3	5.1.3-18	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
381	B	5.1.3.2	70	Soils and Terrain	The figures presented in the baseline report will include: • A terrain map for the proposed Project for the RSA and LSA for the mine footprint as well as the transmission line, access road, and freshwater supply pipeline;	2	B	5.1.3.2, Subsection 5.1.3.2.1	5.1.3-14	Soils and Terrain	Figure 5.1.3.2-1: Soils Local and Regional Study Areas Blackwater Gold Project Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
382	B	5.1.3.2	70	Soils and Terrain	• A soils map identifying SMUs for the entire study area;	2	B	5.1.3.2, Subsection 5.1.3.2.1	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
383	B	5.1.3.2	70	Soils and Terrain	• A reclamation suitability map indicating suitability of reclamation material for the presented polygons; and	2	B	5.1.3.2, Subsection 5.1.3.2.1	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
384	B	5.1.3.2	70	Soils and Terrain	• A terrain stability map indicating areas of potential slope instability.	2	B	5.1.3.2, Subsection 5.1.3.2.1	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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385	B	5.1.3.3	70	Vegetation	This subsection will present the baseline conditions for vegetation. The vegetation baseline program includes classification of each ecosystem following the provincial site classification of Biogeoclimatic Ecosystem Classification system (British Columbia Ministry of Forests, Lands and Natural Resource Operations (BC MFLNRO), 2013) and mapping the distribution of ecosystems within the LSA and RSA including sensitive ecosystems, such as old growth, sparsely vegetated, and riparian.	2	B	5.1.3.3, Subsection 5.1.3.3.1	5.1.3-26	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Figure 5.1.3.3-1: Vegetation Local and Regional Study Areas Blackwater Gold Project Table 5.1.3.3-1: Relationship between BGC Unit and Old Growth Forest Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
386	B	5.1.3.3	70	Vegetation	An assessment of plant species at risk, ecological communities at risk and invasive plants will be completed for the baseline case of the LSA and RSA. Baseline wetland conditions in the proposed Project area will be presented in Section 5.1.2.5 of the Application.	2	B	5.1.3.3, Subsection 5.1.3.3.3.5	5.1.3-33	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Figure 5.1.3.3-2: Terrestrial Ecosystem Mapping and Plant Species at Risk Survey Locations Section 5.1.2.5: Wetlands (Volume 2) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
387	B	5.1.3.3	70	Vegetation	The analysis of plant tissue for metal uptake will be presented in Section 9.2, Human Health, of the Application.	2	B	5.1.3.3, Subsection 5.1.3.3.1	5.1.3-26	Vegetation	Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
388	B	5.1.3.3	70	Vegetation	Invasive plant baseline conditions and management strategies will be presented in Section 12.2, Environmental Management Plans.	2	B	5.1.3.3, Subsection 5.1.3.3.1	5.1.3-26	Vegetation	Section 12.2: Environmental Management Plans (Volume 6) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
389	B	5.1.3.3	70	Vegetation	Ecosystem Mapping Ecosystem mapping method for the mine site, water pipeline, airstrip, airstrip access road, and the proposed mine access road will be based on aerial photography; the transmission line will be based on satellite imagery; and the existing road access route will be based on a combination of Predictive Ecosystem Mapping (PEM) and aerial photography. The LSA and RSA of the mine site, water pipeline, airstrip, airstrip access road and proposed mine access road will be mapped using a standard TEM approach based on bioterrain and three-dimensional (3D) aerial photograph interpretation at a scale of 1:5000 following provincial guidelines for TEM (RIC, 1998). The proposed transmission line and existing road access route will be mapped using a modified TEM approach incorporating existing PEM. Detailed methods will be provided in the baseline report as an appendix to this section of the Application.	2	B	5.1.3.3, Subsection 5.1.3.3.3.3	5.1.3-31	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Figure 5.1.3.3-3: Distribution of Ecoregions and Ecosections in the LSA Figure 5.1.3.3-4: Distribution of Biogeoclimatic Subzones and Variants Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
390	B	5.1.3.3	70	Vegetation	Potential sampling sites will be selected to provide a cross section of the BGC units/ecosystems, structural stages and topographic relief present within the landscape unit. The target survey level intensity for the mine site LSA is survey level 3 (percentage of polygon inspections is 26% to 50%) and for the linear project components (transmission line, freshwater supply pipeline, airstrip, airstrip access road, and proposed mine access road) it will be survey level 5 (percentage of polygon inspections is 5% to 10%) (RIC, 1998). The survey level intensity for the RSA and existing road access route will be a reconnaissance level (percentage of polygon inspections is 0% to 5%).	2	B	5.1.3.3, Subsection 5.1.3.3.3.2	5.1.3-30	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.1.3.3-2: Number of Plots and Percent Polygons Inspected by Project Component within the LSA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
391	B	5.1.3.3	70	Vegetation	Provincial standards (RIC, 1998) distinguish three types of field inspections depending on the level of detail: full plots, ground inspection, and visual checks. For the purposes of this assessment a	2	B	5.1.3.3, Subsection 5.1.3.3.3.2	5.1.3-30	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14)

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					combination of full plots, ground inspection and visual checks are conducted. The structure of the plant community is evaluated by estimating the percent cover of each species within various layers (e.g., moss/lichen/seedling, herb, low shrub, tall shrub, subcanopy, and main canopy). Vascular and non-vascular plant species will be documented at both full plots and ground inspections. Mapping requires evaluation of polygons on the photos including terrain information and examination of field data and other sources (e.g., Vegetation Resource Inventory). Each polygon will be attributed with up to three ecosystem components and the percentage (or decile) of the polygon occupied by each component will be estimated. The attribute database contains all the data required to produce the final ecosystem map and interpretations.						Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
392	B	5.1.3.3	71	Vegetation	Plant Species at Risk Survey: Plant species and ecosystems at risk (Red and Blue lists) include those listed on the BC CDC (2013) website and those listed on Schedule 1 of SARA (Government of Canada, 2002b). An online search is conducted for a list of plant species and ecological communities at risk that potentially occur in the proposed Project area. The BC CDC maps known locations of Red- and Blue- listed species and ecosystems known as Occurrences. Using geographic mapping software, a second spatial search is conducted for Occurrence records possibly occurring in the proposed Project area.	2	B	5.1.3.3, Subsection 5.1.3.3.3.8	5.1.3-35	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.1.3.3-3: Ecosystems at Risk Potentially Occurring Within the Project Area Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
393	B	5.1.3.3	70	Vegetation	Plant species at risk surveys will be performed using a “focused” approach (California Natural Resources Agency (CNRA), 2009). Emphasis is placed on ecosystems with a high potential for plant species at risks. Plant species at risk are usually associated with unique ecosystems or landscapes such as wetlands, rocky outcrops, steep shallow slopes, or seepage areas.	2	B	5.1.3.3, Subsection 5.1.3.3.3.8	5.1.3-35	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
394	B	5.1.3.3	70	Vegetation	Invasive Species Invasive plant is used to include all species listed as noxious, invasive, or alien invasive in federal, provincial, or local regulations. The term noxious weed is a legislative designation reserved for those species listed under the provincial Weed Control Act and Regulations (1996c). Invasive plant is a legislative designation for those species listed under the Forest and Range Practices Act (2002) Invasive Plants Regulation. The term alien invasive species is a legislative designation for those species listed in a Schedule to the Community Charter’s Spheres of Concurrent Jurisdiction – Environment and Wildlife Regulation (2008).	2	B	5.1.3.3, Subsection 5.1.3.3.3.9	5.1.3-35	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
395	B	5.1.3.3	70	Vegetation	The presence/absence of invasive plants will be documented for the proposed Project area and an Invasive Species Management Plan will be completed to identify strategies to prevent the introduction and of invasive plants.	2	B	5.1.3.3, Subsection 5.1.3.3.3.9	5.1.3-35	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
396	B	5.1.3.3	70	Vegetation	The results of the application of the overview methods described above will result in a vegetation baseline report, which includes the following: • An ecosystem map that identifies and quantifies forested (e.g., upland and riparian) and non-forested ecosystems (e.g., grassland and wetlands);	2	B	5.1.3.3, Subsection 5.1.3.3.1	5.1.3-27	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
397	B	5.1.3.3	70	Vegetation	• Presence/absence of plant species and ecological communities at risk;	2	B	5.1.3.3, Subsection 5.1.3.3.5	5.1.3-33,	Vegetation	Figure 5.1.3.3-5: Distribution of Whitebark Pine (*Pinus albicaulis*) Table 5.1.3.3-3: Ecosystems at Risk Potentially

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											Occurring Within the Project Area Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
398	B	5.1.3.3	70	Vegetation	• Identifies the distribution and abundance of sensitive ecosystems, such as sparsely vegetated, and grassland; and	2	B	5.1.3.3, Subsection 5.1.3.3.4.2.1	5.1.3-45	Vegetation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
399	B	5.1.3.3	70	Vegetation	• Documents the presence/absence of invasive plant species.	2	B	5.1.3.3, Subsection 5.1.3.3.4.4	5.1.3-46	Vegetation	Figure 5.1.3.3-6: Invasive Plants Documented by IAPP Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
400	B	5.1.3.4	72	Wildlife and Wildlife Habitat	This subsection will include a description of the local and regional wildlife in the LSA and RSA, including, but not limited to: • Habitat: documentation of: (a) terrestrial habitat within the zone of influence for the proposed Project;	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Figure 5.1.3.4-1: Wildlife and Wildlife Habitat Study Areas Figure 5.1.3.4-2: Caribou Study Areas Figure 5.1.3.4-3: Grizzly Bear Study Areas Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
401	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(b) known and potential critical habitats of identified wildlife species VCs;	2	B	5.1.3.4, Subsection 5.1.3.4.2	5.1.3-60	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
402	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(c) potential for proposed Project activities to cause loss in quantity or quality of habitat; and	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
403	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(d) documentation of inventories and chosen wildlife VC suitability ratings based on vegetation/habitat mapping as related to land capability closure objectives;	2	B	5.1.3.4, Subsection 5.1.3.4.2	5.1.3-60	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
404	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Amphibians and reptiles: documentation of: (a) amphibian and reptilian wildlife such as frogs, toads, snakes, turtles, sensitive species, traditional use species (species composition, distribution, life history characteristics, habitat utilization, and possible seasonal movements); and	2	B	5.1.3.4, Subsection 5.1.3.4.3	5.1.3-61	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
405	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(b) potential for proposed Project activities to affect amphibian and reptilian wildlife and their habitat;	2	B	5.1.3.4, Subsection 5.1.3.4.3	5.1.3-61	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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406	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Birds: documentation of: (a) forest and water avian wildlife such as forest and grassland songbirds, waterfowl and shorebirds, raptors, sensitive species, traditional use species and possible breeding locations, impacts from proposed site activities would be assessed for impacts to select species of conservation concern; and	2	B	5.1.3.4, Subsections 5.1.3.4.4 & 5.1.3.4.5	5.1.3-61	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
407	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(b) potential for proposed activities to affect avian wildlife and their habitat;	2	B	5.1.3.4, Subsections 5.1.3.4.4 & 5.1.3.4.5	5.1.3-61,	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
408	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Mammals: documentation of: (a) mammalian wildlife including caribou, moose, grizzly, bats and furbearers such as marten, sensitive species, and traditional use species; and	2	B	5.1.3.4, Subsection 5.1.3.4.6	5.1.3-63	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
409	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(b) potential for proposed activities to affect mammalian wildlife (e.g., disruption of seasonal and daily movements) and impacts to their habitat or potential predator – prey communities (e.g., wolf numbers vs. moose and deer due to habitat changes);	2	B	5.1.3.4, Subsection 5.1.3.4.6	5.1.3-63	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
410	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Invertebrates: documentation of: (a) invertebrate wildlife such as dragonflies, damselflies and butterflies; and	2	B	5.1.3.4, Subsection 5.1.3.4.7	5.1.3-65	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
411	B	5.1.3.4	72	Wildlife and Wildlife Habitat	(b) potential activities to affect invertebrates and their habitat;	2	B	5.1.3.4, Subsection 5.1.3.4.7	5.1.3-65	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
412	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Rare and listed species: documentation of wildlife species covered by SARA; Committee on the Status of Endangered Wildlife in Canada (COSEWIC); BC provincial Red and Blue lists (BC CDC, 2012) and how they may be affected by the proposed Project; and	2	B	5.1.3.4, Subsection 5.1.3.4.8	5.1.3-65	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
413	B	5.1.3.4	72	Wildlife and Wildlife Habitat	• Species of importance to humans: documentation of wildlife species that are of importance to the local economy, local communities, First Nations and how they may be affected by the proposed Project.	2	B	5.1.3.4, Subsection 5.1.3.4.9	5.1.3-65	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
414	B	5.1.3.4	73	Wildlife and Wildlife Habitat	The methods considered for baseline characterization include a combination of secondary information research and review, field surveys and local knowledge when available. Specific methods for field surveys include the following: • Amphibians and reptiles: field surveys are aimed at identifying the presence/not-detected status of all common or rare species. Suitable survey habitat for amphibians is selected based on the review of aerial photographic information, including the water body size and breeding habitat potential. Visual encounter surveys and road surveys for amphibians and reptiles follow modified Resource Inventory Standards Committee (RISC) protocols of transect searches (RISC, 1998a).	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Table 5.1.3.4-1: Wildlife RISC Survey Methodology Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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					Surveys are conducted to identify wetlands that appear suitable for amphibian breeding. During the ground surveys, the shorelines of wetlands are surveyed systematically for tadpoles and adult amphibians;						
415	B	5.1.3.4	73	Wildlife and Wildlife Habitat	• Birds: for the baseline surveys, birds are separated out into terrestrial birds, water birds, and raptors based on their individual RISC methodology protocols. Terrestrial birds are surveyed using modified variable point count stations following the RISC standards for forest and grassland birds (RISC, 1999a). Water birds are surveyed using aerial transect survey methodology during the breeding season following RISC protocols for waterfowl and allied species (RISC, 1999b). Raptors presence and distribution will be surveyed by conducting call-playback surveys and stand watches following RISC protocols and by searches for stick nests during other flights (RISC, 2001 and RISC, 2006);	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Table 5.1.3.4-1: Wildlife RISC Survey Methodology Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
416	B	5.1.3.4	73	Wildlife and Wildlife Habitat	• Mammals: field surveys for mammals are separated into winter mammal presence/absence surveys, incidental observations of mammals and bat surveys. Winter mammal surveys involve aerial and ground based transects recording wildlife and wildlife sign following RISC protocols. Bat inventory methods adhere to modified RISC standards that use the analysis of sound recordings (RISC, 1998b). Limiting seasons/habitats that require specific surveys will also be discussed; and	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Table 5.1.3.4-1: Wildlife RISC Survey Methodology Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
417	B	5.1.3.4	73	Wildlife and Wildlife Habitat	• Invertebrates: invertebrate sampling methodology follow netting and chasing methods described in RISC inventory methods for terrestrial arthropods (RISC, 1998c) to obtain a list of butterfly and dragonfly/damselfly species present.	2	B	5.1.3.4, Subsection 5.1.3.4.1	5.1.3-54	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 -2013 Baseline Report (AMEC E&I) (App Volume 15) Table 5.1.3.4-1: Wildlife RISC Survey Methodology Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
418	**B**	**5.2**	**74**	**Atmospheric and Acoustic Environment Effects Assessment**							
419	B	5.2	74	Atmospheric and Acoustic Environment Effects Assessment	This section of the Application will present the identification and selection of valued components of the Atmospheric and Acoustic Environment following the methods described in Section 4.2.	2	B	5.2	5.2-1	Atmospheric and Acoustic Environment Effects Assessment	
420	B	5.2	74	Atmospheric and Acoustic Environment Effects Assessment	This section will also present the assessment of effects for the proposed valued components following the methods described in Section 4.3.	2	B	5.2	5.2-1	Atmospheric and Acoustic Environment Effects Assessment	
421	B	5.2.1	74	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for the Atmospheric and Acoustic Environment.	2	B	5.2.1	5.2.1-1	Identification and Selection of Valued Components	Table 5.2.1-1: Candidate Valued Component Rationale Table 5.2.1-2: Evaluation of Candidate Valued Components Table 5.2.1-3: Selected Valued Components and Rationale of Indicators and/or Factor
422	B	5.2.2	74	Noise and Vibration		2	B	5.2.2	5.2.2-1	Noise and Vibration	
423	B	5.2.2.1	74	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	2	B	5.2.2.1	5.2.2-1	Introduction	

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424	B	5.2.2.2	74	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	2	B	5.2.2.2, Subsection 5.2.2.2.1	5.2.2-3	Valued Component Baseline	Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4) Table 5.2.2-1: Baseline Sound Parameters for Reference Projects in Northern BC Table 5.2.2-2: Summary of Long-Term Noise Survey Results at the Blackwater Pit Mining Area Table 5.2.2-3: Summary of Short-Term Baseline Noise Survey Results at the Airstrip and Tatelkuz Lake Areas
425	B	5.2.2.2	74	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	2	B	5.2.2.2, Subsection 5.2.2.2.3	5.2.2-5	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
426	B	5.2.2.2	74	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	2	B	5.2.2.2, Subsection 5.2.2.2.4	5.2.2-5	Valued Component Baseline	Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)
427	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	2	B	5.2.2.3	5.2.2-6	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.2.2A: Noise Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.2-4: Propagation Rate of Construction Noise Table 5.2.2-5: Sound Pressure Level at Tatelkuz Lake Recreation Reserve in Frequency Spectrum (dB) and Overall (dBA) Table 5.2.2-6: Predicted Blasting Noise Levels Figure 5.2.2-1: Noise Contours from Mine Site Figure 5.2.2-2: Noise Contours from Pump Station Figure 5.2.2-3: Noise Modelling for Airstrip with Sensitive Receptors Boeing 737 Takeoff to the Northeast Figure 5.2.2-4: Noise Modelling for Airstrip with Sensitive Receptors Boeing 737 Takeoff to the Southwest
428	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	2	B	5.2.2.3, Subsection 5.2.2.3.3	5.2.2-20	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.2-7: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities
429	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	2	B	5.2.2.3, Subsection 5.2.2.3.4	5.2.2-21	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.2-8: Construction Phase Mitigation Measures Table 5.2.2-8: Construction Phase Mitigation Measures
430	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment of residual noise effects of the proposed Project involves the determination of permissible sound levels (PSLs), noise source characterization, and noise modelling to estimate future noise levels. Determination of Permissible Sound Levels PSLs are likely undefined in the proposed Project area and it will be necessary to review existing PSLs related to commercial operations in remote areas or the mining industry. In consultation with provincial and federal regulators, most suitable noise criteria are adopted, and anthropogenic noise are compared to the permissible sound level.	2	B	5.2.2.3, Subsection 5.2.2.3.2	5.2.2-7	Residual Effects and their Significance	

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431	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	Noise Source Characterization Each significant noise source that will be a part of the proposed Project must be described in terms of its sound power, location, size, and housing (i.e., whether or not it is enclosed). Source characterization work cannot be finished until a complete equipment list is identified. If there is uncertainty regarding equipment, options, and alternatives are reviewed. Other sources of information include review of published sound power information, equipment manufacturer's specifications, and estimates produced by recognized methods of calculation.	2	B	5.2.2.3, Subsection 5.2.2.3.2	5.2.2-7	Potential Effects of the Proposed Project and Proposed Mitigation	
432	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	Noise Modelling Environmental noise model SPM9613 is used as part of the modelling. The model is based on International Organization for Standardization (ISO) Standard 9613 Parts 1 and 2 that specifically address effects observed during outdoor noise propagation. Significant noise sources present during construction and operations phases are included as inputs to the model, and specific noise predictions in the LSA and RSA are shown as 3D noise contours. If necessary, additional modelling of noise barriers is conducted. Noise contours generated will be overlaid with available mapped locations of each permanent and seasonal human receptor, to enable an understanding of the proposed Project's related noise levels that may be experienced at individual receptor locations. Results will be presented and discussed in Section 9.2.2.	2	B	5.2.2.1, Subsection 5.2.2.3.2.2.1	5.2.2-1	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.2.2-1: Noise Contours from Mine Site Figure 5.2.2-2: Noise Contours from Pump Station Figure 5.2.2-3: Noise Modeling for Airstrip with Sensitive Receptors Boeing 737 Takeoff to the Northeast Figure 5.2.2-4: Noise Modeling for Airstrip with Sensitive Receptors Boeing 737 Takeoff to the Southwest Appendix 5.2.2A: Noise Modelling Report (AMEC E&I) (App Volume 15)
433	B	5.2.2.3	74	Potential Effects of the Proposed Project and Proposed Mitigation	Vibration Assessment Prediction of vibration effects due blasting and heavy equipment operation is conducted using empirical equations. Vibration mitigation methods are identified if considered necessary to protect existing or proposed infrastructure. The Application will describe proposed measures available to manage the effects identified above.	2	B	5.2.2.3, Subsection 5.2.2.3.2.2.4	5.2.2-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.2-6: Predicted Blasting Noise Levels
434	B	5.2.2.4	75	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	2	B	5.2.2.4	5.2.2-25	Residual Effects and their Significance	
435	B	5.2.2.4	75	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	2	B	5.2.2.4	5.2.2-25	Residual Effects and their Significance	Table 5.2.2-11: Residual Effects Assessment by Project Development Phase for the Mine Site Table 5.2.2-12: Residual Effects Assessment by Project Development Phase for the Off-site Infrastructure
436	B	5.2.2.5	76	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	2	B	5.2.2.5	5.2.2-28	Cumulative Effects	
437	B	5.2.2.5	76	Cumulative Effects	• Assess potential cumulative effects; and	2	B	5.2.2.5	5.2.2-28	Cumulative Effects	
438	B	5.2.2.5	76	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.2.2.4 above.	2	B	5.2.2.5	5.2.2-28	Cumulative Effects	
439	B	5.2.2.6	76	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	2	B	5.2.2.6	5.2.2-28	Limitations	
440	B	5.2.2.7	76	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	2	B	5.2.2.7	5.2.2-28	Conclusion	

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441	B	5.2.3	76	Climate Change		2	B	5.2.3	5.2.3-1	Climate Change	
442	B	5.2.3.1	76	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	2	B	5.2.3.1, Subsection 5.2.3.1.1	5.2.3-1	Introduction	
443	B	5.2.3.2	76	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	2	B	5.2.3.2	5.2.3-2	Valued Component Baseline	
444	B	5.2.3.2	76	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	2	B	5.2.3.2	5.2.3-2	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
445	B	5.2.3.2	76	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	2	B	5.2.3.2	5.2.3-2	Valued Component Baseline	
446	B	5.2.3.3	76	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	2	B	5.2.3.4	5.2.3-3	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.3-1: GHG Emissions from On-Road Vehicles Table 5.2.3-2: GHG Emissions from the Mine Fleet Table 5.2.3-3: GHG Emissions from Aviation Table 5.2.3-4: GHG Emissions from the Incinerators Table 5.2.3-5: GHG Emissions from the Project Table 5.2.3-6: Comparison of Project GHG Emissions
447	B	5.2.3.3	76	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	2	B	5.2.3.4	5.2.3-3	Potential Effects of the Proposed Project and Proposed Mitigation	
448	B	5.2.3.3	76	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above. The assessment of residual effects for climate change involves the preparation of an emission inventory and dispersion modelling.	2	B	5.2.3.4, Subsection 5.2.3.4.1	5.2.3-7	Residual Effects and their Significance	Table 5.2.3-7: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Climate Change during Mine Site Development
449	B	5.2.3.4	77	Residual Effects and their Significance	This subsection will:	2	B	5.2.3.5	5.2.3-8	Residual Effects and their Significance	
450	B	5.2.3.4	77	Residual Effects and their Significance	• Identify and describe any residual effects after mitigation;	2	B	5.2.3.5	5.2.3-8	Potential Effects of the Proposed Project and Proposed Mitigation	
451	B	5.2.3.4	77	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	2	B	5.2.3.5	5.2.3-8	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.3-8: Determination of Significance of Residual Project Effects on Climate Change
452	B	5.2.3.5	77	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	2	B	5.2.3.6	5.2.3-9	Cumulative Effects	
453	B	5.2.3.5	77	Cumulative Effects	• Assess potential cumulative effects; and	2	B	5.2.3.6	5.2.3-9	Cumulative Effects	
454	B	5.2.3.5	77	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.2.3.4 above.	2	B	5.2.3.6	5.2.3-9	Cumulative Effects	

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455	B	5.2.3.6	77	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	2	B	5.2.3.7	5.2.3-9	Limitations	
456	B	5.2.3.7	77	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	2	B	5.2.3.8	5.2.3-9	Conclusion	
457	B	5.2.4	77	Air Quality		2	B	5.2.4	5.2.4-1	Air Quality	
458	B	5.2.4.1	77	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	2	B	5.2.4.1	5.2.4-1	Introduction	
459	B	5.2.4.2	78	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	2	B	5.2.4.2	5.2.4-1	Valued Component Baseline	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Table 5.2.4-1: Background Concentrations
460	B	5.2.4.2	78	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	2	B	5.2.4.2 Subsection 5.2.4.2.2	5.2.4-4	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
461	B	5.2.4.2	78	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	2	B	5.2.4.2	5.2.4-1	Valued Component Baseline	
462	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	2	B	5.2.4.3	5.2.4-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.4-2: Emissions Summary Table 5.2.4-3: Maximum Predicted Ground-Level Concentrations of SO_2 Table 5.2.4-4: Maximum Predicted Ground-Level Concentrations of NO_2 Table 5.2.4-5: Maximum Predicted Ground-Level Concentrations of CO Table 5.2.4-6: Maximum Predicted Ground-Level Concentrations of PM Table 5.2.4-7: Frequency of Exceedances of PM Figure 5.2.4-1: Maximum Predicted 24-hour Average Ground-level TSP Concentrations (ug/m^3) Associated with the Project with Background Concentration Figure 5.2.4-2: Maximum Predicted Annual Average Ground-level TSP Concentrations (ug/m^3) Associated with the Project with Background Concentration Figure 5.2.4-3: Maximum Predicted 24-hour Average Ground-level PM_{10} Concentrations (ug/m^3) Associated with the Project with Background Concentration Figure 5.2.4-4: Maximum Predicted Annual Average Ground-level $PM_{2.5}$ Concentrations (ug/m^3) Associated with the Project with Background Concentration
463	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	2	B	5.2.4.3, Subsection 5.2.4.3.4	5.2.4-13	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.4-8: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities
464	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	2	B	5.2.4.3, Subsection 5.2.4.3.5	5.2.4-14	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.4-9: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce

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					The assessment of residual effects for air quality involves the preparation of an emission inventory and dispersion modelling.						Potential Effects on Air Quality during Mine Site Development
465	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	Emission Inventory An emission inventory for the proposed Project is established based on design data, construction plans, and operational scenarios. The activities that will be considered for the emissions inventory include but are not limited to ore and waste rock transportation within the mine site, as well as the transportation of materials and products outside the mine site (whether by air or road). Wherever possible, engineering data and manufacturer's specifications are used to estimate emission rates. Where necessary, this information is supplemented by emission factors from the United States Environmental Protection Agency (US EPA) AP-42. Emissions from mobile sources during construction and operations are estimated using the US EPA models MOVES2010b and NONROAD.	2	B	5.2.4.3, Subsection 5.2.4.3.1	5.2.4-6	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.2.4-2: Emissions Summary
466	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	Dispersion Modelling Dispersion modelling is performed with the program CALPUFF, which is a Lagrangian dispersion model that simulates pollutant releases as a continuous series of puffs. The CALPUFF model has been the preferred model for regions with complex, non-steady-state meteorological conditions such as those found in mountainous terrain like the proposed Project property. The model can predict both concentration and deposition patterns of air contaminants. This model is applied in the more refined CALMET mode to incorporate mesoscale meteorological data MM5.	2	B	5.2.4.3, Subsection 5.2.4.3.2	5.2.4-6	Potential Effects of the Proposed Project and Proposed Mitigation	
467	B	5.2.4.3	78	Potential Effects of the Proposed Project and Proposed Mitigation	The results of the dispersion modelling are predicted ground level concentrations for particulate matter and combustion gases, and dust deposition rates at the proposed mine site boundary and beyond at sensitive receptors are assessed with reference to ambient air quality objectives and health effects.	2	B	5.2.4.3, Subsection 5.2.4.3.3	5.2.4-7	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.2.4-1: Maximum Predicted 24-hour Average Ground-level TSP Concentrations (ug/m3) Associated with the Project with Background Concentration Figure 5.2.4-2: Maximum Predicted Annual Average Ground-level TSP Concentrations (ug/m3) Associated with the Project with Background Concentration Figure 5.2.4-3: Maximum Predicted 24-hour Average Ground-level PM10 Concentrations (ug/m3) Associated with the Project with Background Concentration Figure 5.2.4-4: Maximum Predicted Annual Average Ground-level PM2.5 Concentrations (ug/m3) Associated with the Project with Background Concentration
468	B	5.2.4.4	79	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	2	B	5.2.4.4	5.2.4-15	Residual Effects and their Significance	
469	B	5.2.4.4	79	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	2	B	5.2.4.4	5.2.4-15	Residual Effects and their Significance	Table 5.2.4-10: Determination of Significance of Residual Effects for Air Quality

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470	B	5.2.4.5	79	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	2	B	5.2.4.5	5.2.4-16	Cumulative Effects	
471	B	5.2.4.5	79	Cumulative Effects	• Assess potential cumulative effects; and	2	B	5.2.4.5	5.2.4-16	Cumulative Effects	
472	B	5.2.4.5	79	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.2.4.4 above.	2	B	5.2.4.5	5.2.4-16	Cumulative Effects	Table 5.2.4-11: Determination of Significance of Cumulative Effects for Air Quality
473	B	5.2.4.6	79	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	2	B	5.2.4.6	5.2.4-18	Limitations	Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15)
474	B	5.2.4.7	79	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	2	B	5.2.4.7	5.2.4-18	Conclusion	
475	**B**	**5.3**	**79**	**Aquatic Environment Effects Assessment**							
476	B	5.3	79	Aquatic Environment Effects Assessment	This section of the Application will present the identification and selection of valued components of the Aquatic Environment following the methods described in Section 4.2.	3	B	5.3	5.3.1-1	Aquatic Environment Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
477	B	5.3	79	Aquatic Environment Effects Assessment	This section will also present the assessment of effects for the proposed VCs following the methods described in Section 4.3.	3	B	5.3	5.3.1-1	Aquatic Environment Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
478	B	5.3.1	80	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for the Aquatic Environment.	3	B	5.3.1	5.3.1-1	Identification and Selection of Valued Components	Table 5.3.1-1: Candidate Valued Component Rationale Table 5.3.1-2: Evaluation of Candidate Valued Components Table 5.3.1-3: Candidate Valued Components Not Selected Table 5.3.1-4: Selected Valued Components and Rationale of Indicators and/or Factor Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
479	B	5.3.2	80	Surface Water Flow		3	B	5.3.2	5.3.2-1	Surface Water Flow	
480	B	5.3.2.1	80	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.2.1	5.3.2-1	Introduction	
481	B	5.3.2.2	80	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.2.2	5.3.2-5	Valued Component Baseline	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 2.2A-6: Updated Water Balance Letter Report (23 December 2013) (Knight Piésold Ltd.) (App Volume 1) Appendix 5.3.2C: Blackwater Gold Project Tatelkuz Lake IFN Withdrawal Model Letter (Knight Piésold Ltd.) (App Volume 15) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Figure 5.3.2-1: Surface Water Flow Study Areas Figure 5.3.2-2: Proposed Mine Site Facilities (Year 17) with Watershed Boundaries Figure 5.3.2-3: Regional Streamflow and Climate Stations Figure 5.3.2-4: Baseline Watershed Model Discretization Figure 5.3.2-5: General Arrangement Construction (End of Year -2) Plan

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											Figure 5.3.2-6: Discretization of Sub-catchments for Construction (End of Year -2) Plan Figure 5.3.2-7: General Arrangement Operations (End of Year 17) Plan Figure 5.3.2-8: Discretization of Sub-catchments for Operations (End of Year 17) Plan Figure 5.3.2-9: General Arrangement Closure (End of Year 20) Plan Figure 5.3.2-10: Closure and Post-Closure Watershed Model Discretization Figure 5.3.2-11: General Arrangement Post Closure Plan Table 5.3.2-1: Estimated Baseline Mean Wet and Dry Monthly and Annual Surface Water Flows for the Project Table 5.3.2-2: Estimated Instantaneous Peak Flows for the Project Table 5.3.2-3: Estimated Baseline for 7Q10 and 7Q20 Low Flows Table 5.3.2-4: Estimated Mean Precipitation, Rainfall, and Snow Water Equivalent for the Project Table 5.3.2-5: Estimated 24-hour Extreme Precipitation for the Project Table 5.3.2-6: Estimated Wet and Dry Annual Precipitation for the Project Table 5.3.2-7: Estimated Potential Evapotranspiration for the Project
482	B	5.3.2.2	80	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.2.2	5.3.2-5	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
483	B	5.3.2.2	80	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.2.2	5.3.2-5	Valued Component Baseline	
484	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.2.3	5.3.2-23	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.3.2A: Potential Project Effects "Unmitigated" Dry and Wet Monthly and Annual Surface Water Flow Summary Tables (AMEC E&I) (App Volume 15) Table 5.3.2-8: Estimated Mean Monthly and Annual Surface Water Flow Changes in Turtle Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-9: Estimated Instantaneous Peak Surface Water Flow Changes at the Mouth of Turtle Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-10: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Turtle Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-11: Estimated Mean Monthly and Annual Surface Water Flow Changes in Davidson

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											Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-12: Estimated Instantaneous Peak Surface Water Flow Changes at the Mouth of Davidson Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-13: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Davidson Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-14: Estimated Mean Monthly and Annual Surface Water Flow Changes in Creek 661 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-15: Estimated Instantaneous Peak Surface Water Flow Changes at the Mouth of Creek 661 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-16: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Creek 661 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-17: Estimated Mean Monthly and Annual Surface Water Flow Changes in Creek 705 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-18: Estimated Instantaneous Peak Surface Water Flow Changes at the Mouth of Creek 705 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-19: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Creek 705 from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-20: Estimated Mean Monthly and Annual Surface Water Flow Changes in Chedakuz Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-21: Estimated Instantaneous Peak Surface Water Flow Changes on Chedakuz Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-22: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Chedakuz Creek from the Project for Construction (Year -2),

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											Operations (Year 17), Closure (Year 20), and Post-closure Phases
485	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.2.3, Subsections 5.3.2.3.1, 5.3.2.5	5.3.2-23	Potential Effects of the Proposed Project and Proposed Mitigation	
486	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.2.3, Subsection 5.3.2.3.4	5.3.2-62	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.2-23: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Surface Water Flow during Mine Site Development
487	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	A water balance model is developed to assess changes in streamflows as a result of mine construction, operations, closure, and post-closure under a range of climatic conditions. Consideration of extreme events and years, both wet and dry, is included.	3	B	5.3.2.3, Subsection 5.3.2.3.2	5.3.2-26	Potential Effects of the Proposed Project and Proposed Mitigation	
488	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	The Application will identify potential effects on surface water quantity and flow. Effect conclusions are based on predicted water volumes in and from the proposed Project area, including mine water, seepage, surface runoff, and collection ponds. The assessment considers the potential effects on water quantity and catchment areas in relation to: • Water withdrawals and discharge related to the proposed Project, including points of withdrawal and discharge;	3	B	5.3.2.3, Subsection 5.3.2.3.2	5.3.2-26	Potential Effects of the Proposed Project and Proposed Mitigation	
489	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Quantity of runoff, groundwater, and seepage from mine workings. This includes: a description of predicted inflows; water handling procedures; water balance predictions and contingencies for potential inflows that are higher than expected; and the effects of discharges on the hydrology of the area;	3	B	5.3.2.3, Subsection 5.3.2.3.2	5.3.2-26	Potential Effects of the Proposed Project and Proposed Mitigation	
490	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Consideration of flood and drought conditions (wet and dry);	3	B	5.3.2.3, Subsection 5.3.2.3.3	5.3.2-38	Potential Effects of the Proposed Project and Proposed Mitigation	
491	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Climate change scenarios, considered in the form of sensitivity analysis of key hydrological parameters such as precipitation, are applied to water balance; and	3	B	5.3.2.3, Subsection 5.3.2.3.2.5	5.3.2-36	Potential Effects of the Proposed Project and Proposed Mitigation	
492	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	• Receiving water quantity, including changes in timing, volume, and deviation of peak and minimum flows resulting from the proposed Project.	3	B	5.3.2.3, Subsection 5.3.2.3.3	5.3.2-38	Potential Effects of the Proposed Project and Proposed Mitigation	
493	B	5.3.2.3	80	Potential Effects of the Proposed Project and Proposed Mitigation	Potential effects of the proposed Project on water quantity will also be incorporated into other sections of the Application (e.g., surface water and sediment quality, fisheries and aquatic resources, etc.). All parameter estimates (e.g., water balance) reported in the Application will include sources of information (either estimates or empirical) and assumptions built into the data.	3	B	5.3.2.3, Subsection 5.3.2.3.3	5.3.2-38	Potential Effects of the Proposed Project and Proposed Mitigation	
494	B	5.3.2.4	81	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.2.4	5.3.2-63	Residual Effects and their Significance	Table 5.3.2-24: Summary of Potential Project Effects to be Carried Forward into Residual Effects Evaluation Table 5.3.2-25: Estimated Mean Monthly and Annual Surface Water Flow Changes in Davidson Creek from the Project with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-26: Estimated Instantaneous Peak

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											Surface Water Flow Changes at the Mouth of Davidson Creek from the Project with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-27: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Davidson Creek from the Project with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-28: Estimated Mean Monthly and Annual Surface Water Flow Changes in Chedakuz Creek from the Project with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-29: Estimated Instantaneous Peak Surface Water Flow Changes on Chedakuz Creek from the Project for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-Closure Phases Table 5.3.2-30: Estimated 7Q10 and 7Q20 Surface Water Flow Changes in Chedakuz Creek from the Project with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-31: Estimated Mean Monthly and Annual Tatelkuz Lake Levels with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases Table 5.3.2-32: Estimated 1:50–year Dry Monthly and Annual Tatelkuz Lake Levels with Mitigation Measures for Construction (Year -2), Operations (Year 17), Closure (Year 20), and Post-closure Phases
495	B	5.3.2.4	81	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.2.4, Subsection 5.3.2.4.2	5.3.2-78	Residual Effects and their Significance	Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.2-34: Significance of Adverse Residual Project Effects on Surface Water Flow
496	B	5.3.2.5	81	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.2.5	5.3.2-85	Cumulative Effects	Table 5.3.2-35: Surface Water Flow Project-Related Residual Effects; Rationale for Carrying Forward into the CEA
497	B	5.3.2.5	81	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.2.5	5.3.2-85	Cumulative Effects	Table 5.3.2-36: Major Watershed Components of the Aquatics RSA Figure 5.3.2-12: Cumulative Effects Assessment Surface Water Flow Figure 5.3.2-13: Projects and Human Activities Included in the Cumulative Effects Assessment (Activities)

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498	B	5.3.2.5	81	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.2.4 above.	3	B	5.3.2.5	5.3.2-85	Cumulative Effects	Table 5.3.2-37: Residual Cumulative Effects Assessment for Surface Water Flow in the Upper Eutsuk Lake Watershed Table 5.3.2-38: Residual Cumulative Effects Assessment for Surface Water Flow in the Lower Nechako Watershed
499	B	5.3.2.6	81	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.2.6	5.3.2-91	Limitations	
500	B	5.3.2.7	81	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.2.7	5.3.2-91	Conclusions	
501	B	5.3.3	82	Surface Water Quality		3	B	5.3.3	5.3.3-1	Surface Water Quality	
502	B	5.3.3.1	82	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.3.1	5.3.3-1	Introduction	Figure 5.3.3-1: Water Resources LSA and RSA
503	B	5.3.3.2	82	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.3.2	5.3.3-5	Valued Component Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report(AMEC E&I) (Part 2) (App Volume 6) Table 5.3.3-1: Water Quality Monitoring Sites and Choice Rationale Table 5.3.3-2: Mean Stream Surface Water Quality Summary for the Project Table 5.3.3-3: Mean Background Concentration Exceedances Figure 5.3.3-2: Surface Water Quality Monitoring Sites
504	B	5.3.3.2	82	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.3.2, Subsection 5.3.3.2.2	5.3.3-12	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
505	B	5.3.3.2	82	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.3.2, Subsection 5.3.3.2.1	5.3.3-11	Valued Component Baseline	
506	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.3.3	5.3.3-12	Potential Effects of the Proposed Project and Mitigation	Table 5.3.3-4: Lake Water Quality Summary Means Table 5.3.3-5: Potential Direct Effects on Surface Water Quality by Mine Phase Table 5.3.3-6: Mean and 95th Percentile Background Concentrations of Dissolved Aluminum in the Project Area Streams Table 5.3.3-8: 95th Percentile Concentrations of Background Total Iron in Blackwater Streams and Mean Concentrations of Total Iron in Lakes
507	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.3.3	5.3.3-12	Potential Effects of the Proposed Project and Mitigation	

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508	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.3.3, Subsection 5.3.3.3.10	5.3.3-123	Potential Effects of the Proposed Project and Mitigation	Figure 5.3.3-16: Construction Sediment Control Pond 1 Figure 5.3.3-17: Construction Sediment Control Pond 2 Table 5.3.3-55: Additional Contingency Mitigation Measures
509	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	During construction, BMPs will be applied (including Fisheries and Oceans Canada (DFO) Operational Statements with respect to overhead powerlines, clear span bridges and culvert maintenance will be followed as well as relevant DFO BMPs and guidelines). A key objective of the proposed Project design is to prevent surface water discharges from the proposed mine site to adjacent streams during operations. The Proponent has stated that the current proposed Project design has been developed with intent to comply with this key objective. All contact water reports to the TSF. Seepage is captured and pumped back to the TSF. The TSF will be sized to contain storm events while maintaining the required freeboard. Seepage will be intercepted by a downstream environmental control dam. Since seepage capture is not expected to be 100%, an assessment is carried out of the potential effects of loss of some seepage to proposed Project area drainages. The TSF will be permitted as a zero discharge facility. Should discharge be necessary at any time after commissioning, the Environmental Management Act permit issued by BC MOE and required for operation of the facility, will need to be amended or a new permit applied for prior to any discharge from the TSF. Discharge water quality and quantity will be set in the permit and will be protective of the receiving environment as well as, at a minimum, meet Metal Mining Effluent Regulations (MMER) discharge standards.	3	B	5.3.3.1, Subsection 5.3.3.1.1, 5.3.3.3, Subsection 5.3.3.3.10	5.3.3-1	Potential Effects of the Proposed Project and Mitigation	
510	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	After closure and once the open pit fills, water is discharged from a reclaimed TSF to Davidson Creek. Quantitative modelling is conducted to predict the effects. Goldsim™ will be used in deterministic mode (i.e., using set values for input parameters, with a number of scenarios to provide sensitivity analyses). Average and dry (seven-day, 10 year return period (7dQ10)) flows in Davidson Creek and Stream 705 (tributary of Fawnie Creek potentially influenced by TSF seepage) are modelled. Average and 95th percentile background water quality and source chemistry (where available) are also modelled. These scenarios produce a base case (expected) and a number of reasonable worse case results.	3	B	5.3.3.3, Subsection 5.3.3.3.4	5.3.3-23	Potential Effects of the Proposed Project and Mitigation	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15) Table 5.3.3-10: Water Quality Parameters Modelled in Goldsim™ Table 5.3.3-11: Modelled Scenarios Table 5.3.3-12: Assessed Nodes Table 5.3.3-13: Goldsim™ Model Input Sources Summary
511	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	Two receiving streams, Davidson Creek and Creek 705 – an unnamed tributary of Fawnie Creek flowing to the west from near the proposed Project site – are modelled. Sources modelled include the open pit, waste rock and ore storage piles, overburden stockpile, landfill, sewage treatment plant, site runoff, TSF, TSF dams; both runoff and seepage are included.	3	B	5.3.3.3, Subsection 5.3.3.3.4	5.3.3-23	Potential Effects of the Proposed Project and Mitigation	Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15)
512	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	Predicted results are compared to CCME guidelines for the protection of aquatic life, BC MOE water quality maximum and 30-day guidelines, and site-specific objectives proposed for the surface water quality. Guidelines will be hardness adjusted.	3	B	5.3.3.3, Subsection 5.3.3.3.2	5.3.3-18	Potential Effects of the Proposed Project and Mitigation	Table 5.3.3-7: Comparison of Lorax, BC FWG, and CCME (2012) Total Cadmium Guidelines Figure 5.3.3-3: Range in Total Copper Background Concentrations in Project Area Streams

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											Figure 5.3.3-4: Range in Total Zinc Concentrations in Project Area Streams
513	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	Operations, closure and post-closure are modelled. Construction will be modelled if there is to be a discharge from a sediment control pond (possibly not required if winter construction of starter dam).	3	B	5.3.3.3, Subsection 5.3.3.3.3 and 5.3.3.3.	5.3.3-22	Potential Effects of the Proposed Project and Mitigation	Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15) Table 5.3.3-9: Construction Sediment Control Table 5.3.3-14: TSF Summary Annual Average Water Quality Predictions: Best Estimate Table 5.3.3-15: TSF Summary Annual Average Water Quality Predictions: Worst Case Table 5.3.3-16: Modelled Pit Lake Results Table 5.3.3-17: Predicted Long-Term Post Closure Effects of Seepage on Creek 661 Table 5.3.3-18: Measured and Estimate Average Monthly Temperature in Tatelkuz Lake at 8 m, 10 m, and 12 m Depths Table 5.3.3-19: Measured and Regression Equation-Derived Temperature Differences among WQ10, WQ26, and WQ7 Table 5.3.3-20: Davidson Creek Monthly Average Flows (L/s) Table 5.3.3-21: Baseline Temperatures in Davidson Creek and Predicted Changes with Tatelkuz Lake Water Addition – Operations and Closure (°C) Table 5.3.3-22: Predicted Differences between Background and Operations-Closure Temperatures in Davidson Creek Table 5.3.3-24: Monthly Best Estimate pH for Modelled Sites: Construction, Operations/Closure, Post-Closure Table 5.3.3-25: Monthly Worst-Case pH for Modelled Sites: Construction, Operations/Closure, Post-Closure Table 5.3.3-26: Monthly Best Estimate Hardness (mg $CaCO_3$/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-27: Monthly Worst Case Estimate Hardness (mg $CaCO_3$/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-28: Monthly Best Estimate Ammonia (mg N/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-29: Monthly Worst Case Ammonia (mg N/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-30: Monthly Best Estimate Sulphate (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-31: Monthly Worst-Case Sulphate (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-32: Monthly Best Estimate Total Aluminum (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-33: Monthly Worst-Case Total Aluminum (mg/L) for Modelled Sites –

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											Construction, Operations/Closure, Post-Closure Table 5.3.3-34: Monthly Best Estimate Dissolved Aluminum (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-35: Monthly Worst-Case Dissolved Aluminum (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-36: Monthly Best Estimate Total Arsenic (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-37: Monthly Worst-Case Total Arsenic (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-39: Monthly Best Estimate Total Cadmium (mg/L) for Modelled Sites – Construction, Operations/Closure, Post Closure Table 5.3.3-40: Monthly Worst Case Total Cadmium (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-41: Monthly Best Estimate Total Cobalt (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-42: Monthly Worst-Case Total Cobalt (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-43: Monthly Best Estimate Total Copper (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-44: Monthly Worst-Case Total Copper (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-45: Monthly Best Estimate Total Iron (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-46: Monthly Worst Case Total Iron (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-47: Monthly Best Estimate Total Selenium (mg/L) for Modelled Sites – Construction, Operations/Closure, Post Closure Table 5.3.3-48: Monthly Worst Case Total Selenium (mg/L) for Modelled Sites – Construction, Operations/Closure, Post Closure Table 5.3.3-49: Monthly Best Estimate Total Zinc (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-50: Monthly Worst Case Total Zinc (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-51: Monthly Best Estimate Total Cyanide (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-52: Monthly Worst Case Total Cyanide (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-53: Monthly Best Estimate Weak Acid

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											Dissociable Cyanide (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Table 5.3.3-54: Monthly Worst Case Weak Acid Dissociable Cyanide (mg/L) for Modelled Sites – Construction, Operations/Closure, Post-Closure Figure 5.3.3-5: Operations/Closure Model Input and Output Schematic Figure 5.3.3-7: Monthly Temperatures in Tatelkuz Lake at 8 m, 10 m, and 12 m Depths Figure 5.3.3-8: Measured Temperatures at Three Locations on Davidson Creek Figure 5.3.3-9: Monthly Temperature Differences between WQ10, WQ26, and WQ7 Figure 5.3.3-10: Predicted Monthly Temperature Comparisons in Davidson Creek with 8 m, 10 m and 12 m Water Intakes in Tatelkuz Lake Figure 5.3.3-11: Measured and Estimated Snake Lake Surface Water Temperature Figure 5.3.3-12: Measured and Estimated Groundwater Temperature at Project Site
514	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	For closure, an additional model is employed to predict closed pit water chemistry. Predictions from this model feed into the Goldsim model as one of the source terms.	3	B	5.3.3.3, Subsection 5.3.3.3.4.1 Subsection 5.3.3.3.8	5.3.3-28 5.3.3-38	Potential Effects of the Proposed Project and Mitigation	Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15) Figure 5.3.3-6: Post-Closure Model Input and Output Schematic
515	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	Contents of surface water quality effects assessment section will include: • Summary of baseline results and reference to baseline report appendix;	3	B	5.3.3.2	5.3.3-5	Valued Component Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 2) (App Volume 6)
516	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Effects assessment methodology including discussion of modelling;	3	B	5.3.3.3, Subsection 5.3.3.3.4	5.3.3-23	Potential Effects of the Proposed Project and Mitigation	Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15)
517	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• LSA/RSA assumed and rationale;	3	B	5.3.3.2	5.3.3-5	Valued Component Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 2) (App Volume 6)
518	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Results discussion by drainage basin and by modelled parameter;	3	B	5.3.3.3, Subsection 5.3.3.3.6	5.3.3-35	Potential Effects of the Proposed Project and Mitigation	Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15)
519	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Rating of effects;	3	B	5.3.3.3, Subsection 5.3.3.3.1	5.3.3-13	Potential Effects of the Proposed Project and Mitigation	
520	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Mitigation and management to limit potential effects;	3	B	5.3.3.3, Subsection 5.3.3.3.10	5.3.3-123	Potential Effects of the Proposed Project and Mitigation	

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521	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Quantification of residual effects;	3	B	5.3.3.4	5.3.3-133	Residual Project Effects and their Significance	Table 5.3.3-57: Potential Exceedances of Guidelines Due to High Background at Operations and Closure Table 5.3.3-58: Potential Exceedances of Guidelines Due to High Background at Post-Closure
522	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Significance of residual effects; and	3	B	5.3.3.4, Subsection 5.3.3.4.2	5.3.3-136	Residual Project Effects and their Significance	Table 5.3.3-59: Significance of Residual Project Effects on Water Quality
523	B	5.3.3.3	82	Potential Effects of the Proposed Project and Proposed Mitigation	• Discussion of potential cumulative effects and significance.	3	B	5.3.3.5	5.3.3-137	Cumulative Effects	
524	B	5.3.3.4	83	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.3.4	5.3.3-133	Residual Project Effects and their Significance	
525	B	5.3.3.4	83	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.3.4, Subsection 5.3.3.4.2	5.3.3-136	Residual Project Effects and their Significance	
526	B	5.3.3.5	84	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.3.5	5.3.3-137	Cumulative Effects	
527	B	5.3.3.5	84	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.3.5	5.3.3-137	Cumulative Effects	
528	B	5.3.3.5	84	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.3.4 above.	3	B	5.3.3.5	5.3.3-137	Cumulative Effects	Table 5.3.3-60: Significance of Cumulative Project Effects on Water Quality
529	B	5.3.3.6	84	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.3.6	5.3.3-139	Limitations	
530	B	5.3.3.7	84	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.3.7	5.3.3-139	Conclusions	
531	B	5.3.4	84	Sediment Quality		3	B	5.3.4	5.3.4-1	Sediment Quality	
532	B	5.3.4.1	84	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.4.1	5.3.4-1	Introduction	Table 5.3.4-1: Sediment Sampling Program Figure 5.3.4-1: Hydrology, Surface and Sediment Quality, Wetlands, Fish and Fish Habitat Study Areas Regional Map
533	B	5.3.4.2	84	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.4.2	5.3.4-5	Valued Component Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (Part 2) (App Volume 6) Table 5.3.4-1: Sediment Sampling Program Table 5.3.4-2: Exceedances of CCME and BC MOE Sediment Guidelines in Project Area Streams Table 5.3.4-3: Blackwater Stream Sediment

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											Summary Table 5.3.4-4: Lake Sediment Mean Concentrations Figure 5.3.4-1: Hydrology, Surface and Sediment Quality, Wetlands, Fish and Fish Habitat Study Areas Regional Map Figure 5.3.4-2: Surface Water Quality Monitoring Sites
534	B	5.3.4.2	84	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.4.2, Subsection 5.3.4.2.2	5.3.4-11	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
535	B	5.3.4.2	84	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.4.2, Subsection 5.3.4.2.1	5.3.4-11	Valued Component Baseline	
536	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.4.3	5.3.4-11	Potential Effects of the Proposed Project and Proposed Mitigation	
537	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.4.3	5.3.4-11	Potential Effects of the Proposed Project and Proposed Mitigation	
538	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.4.3, Subsection 5.3.4.3.2	5.3.4-14	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.4-5: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Sediment Quality of Mine Site Development
539	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	During construction, sediments from disturbed areas are captured in sedimentation ponds or the TSF. A comprehensive erosion and sedimentation management plan developed prior to commencement of construction proactively limits erosion to the extent practical. During operations contact water sediments are captured in the TSF.	3	B	5.3.4.3, Subsection 5.3.4.3.1.1.1	5.3.4-11	Potential Effects of the Proposed Project and Proposed Mitigation	
540	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	Some increase in trace metal levels in sediments in streams immediately contiguous with the proposed Project may occur from the limited seepage that is expected to report to these streams from the TSF. Seepage from the main dam is captured by the Environmental Control Dam downstream of the main dam. Some deep seepage is expected to bypass the seepage recovery dam and is estimated for the EA.	3	B	5.3.4.3, Subsection 5.3.4.3.1.1.2	5.3.4-12	Potential Effects of the Proposed Project and Proposed Mitigation	
541	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	Some seepage is generated by the dam on the west side of the tailing impoundment, because topography is expected to flow back toward the dam rather than to the west. Capture and pump back of seepage is the proposed mitigation to limit metals uptake by stream sediments.	3	B	5.3.4.3, Subsection 5.3.4.3.1.1.2	5.3.4-12	Potential Effects of the Proposed Project and Proposed Mitigation	
542	B	5.3.4.3	81	Potential Effects of the Proposed Project and Proposed Mitigation	There is essentially no correlation between background water and sediment quality, principally because the method of assessing sediment metals levels is a strong acid leach, which will never occur in a natural stream not subject to acid drainage. Therefore, (1) the only source of sediment metals is precipitation/adsorption from surface water; and (2) the lack of correlation between water and sediment metals, a qualitative effects assessment is carried out for the EA.	3	B	5.3.4.3, Subsection 5.3.4.3.1.1.2	5.3.4-12	Potential Effects of the Proposed Project and Proposed Mitigation	

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					Sediment quality effects assessment will be included in the surface water quality section, although no quantitative modelling is proposed.						
543	B	5.3.4.4	85	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.4.4	5.3.4-15	Residual Effects and their Significance	
544	B	5.3.4.4	85	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.4.4, Subsection 5.3.4.4.2	5.3.4-15	Residual Effects and their Significance	Table 5.3.4-6: Significance of Residual Project Effects
545	B	5.3.4.5	85	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.4.5	5.3.4-16	Cumulative Effects	
546	B	5.3.4.5	85	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.4.5	5.3.4-16	Cumulative Effects	
547	B	5.3.4.5	85	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.4.4 above.	3	B	5.3.4.5	5.3.4-16	Cumulative Effects	
548	B	5.3.4.6	86	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.4.6	5.3.4-16	Limitations	
549	B	5.3.4.7	86	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.4.7	5.3.4-16	Conclusion	
550	B	5.3.5	86	Groundwater Quantity		3	B	5.3.5	5.3.5-1	Groundwater Quantity	
551	B	5.3.5.1	86	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.5.1	5.3.5-1	Introduction	
552	B	5.3.5.2	86	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.5.2, Subsection 5.3.5.2.1	5.3.5-2	Valued Component Baseline	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Appendix 5.3.6A: Stage 1 – Environmental Impact Study: Rapid Filtration Basin Wastewater Disposal for the New Gold Inc. Blackwater Mine Construction Camp near Vanderhoof, BC (Western Water Associates Ltd.) (App Volume 16) Appendix 11A: Blackwater Project – Reconnaissance Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)
553	B	5.3.5.2	86	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.5.2, Subsection 5.3.5.2.3	5.3.5-7	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)

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554	B	5.3.5.2	86	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.5.2, Subsection 5.3.5.2.4	5.3.5-7	Valued Component Baseline	
555	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.5.3	5.3.5-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Appendix 5.3.5B: Tailings Storage Facility Seepage Sensitivity Analysis (Knight Piésold Ltd.) (App Volume 16) Table 5.3.5-1: Potential Direct Effects on Groundwater Quantity by Mine Phase Table 5.3.5-2: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Times Table 5.3.5-3: Groundwater Extraction Well Details Table 5.3.5-4: Material Parameters Used in the Base Case Seepage Estimate Table 5.3.5-5: Upper and Lower Bound Material Parameters used in Sensitivity Analyses Table 5.3.5-6: Upper and Lower Bound and Base Case Seepage Estimates Figure 5.3.5-3: Baseline Calibrated Groundwater Elevation Map Figure 5.3.5-4: Tailings Storage Facility TSF Site D Main Dam Figure 5.3.5-5: Predicted Open Pit Drawdown Figure 5.3.5-6: Groundwater Elevation Map at the End of Production Figure 5.3.5-7: Predicted Pit Inflow Rates: Numerical Model and Analytical Calculation Figure 5.3.5-8: Post-Closure Model Groundwater Elevation Map Figure 5.3.5-9: Post-Closure Pit Lake Model Particle Track Analysis Figure 5.3.5-10: West Dump MODFLOW MODPATH Particle Analysis Figure 5.3.5-11: East Dump MODFLOW MODPATH Particle Analysis Figure 5.3.5-12: Plant Site MODFLOW MODPATH Particle Analysis Figure 5.3.5-13: Tailings Storage Facility Seepage Analysis Arrangement
556	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area;	3	B	5.3.5.3	5.3.5-10	Potential Effects of the Proposed Project and Proposed Mitigation	
557	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	• Quantify the proportion of the flow in the receiving environment that corresponds to seepage from the TSF;	3	B	5.3.5.3, Subsection 5.3.5.3.2.2	5.3.5-13	Potential Effects of the Proposed Project and Proposed Mitigation	

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558	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	• Assess the sensitivity for seepage estimates for the TSF; and	3	B	5.3.5.3, Subsection 5.3.5.3.2.4	5.3.5-28	Potential Effects of the Proposed Project and Proposed Mitigation	
559	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.5.3, Subsection 5.3.5.3.4	5.3.5-37	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.5-7: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Groundwater Quantity during Mine Site Development
560	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	The watershed model will be updated to include proposed mine site elements and proposed water management plans. The updated watershed model assesses potential reductions in stream flows as a result of mine site construction, operations, and closure. Potential effects on groundwater flow during short-term closures will be discussed. Analytical and/or numerical models are used to estimate potential groundwater seepage from waste piles and/or tailings facilities and the potential effects of mine dewatering on the surrounding area.	3	B	5.3.5.3, Subsection 5.3.5.3.2.1	5.3.5-13	Potential Effects of the Proposed Project and Proposed Mitigation	
561	B	5.3.5.3	86	Potential Effects of the Proposed Project and Proposed Mitigation	The effects assessment report will include a discussion of the potential impacts of mine development on the groundwater resource quantity and interrelated surface water resource.	3	B	5.3.5.3, Subsection 5.3.5.3.2.1	5.3.5-13	Potential Effects of the Proposed Project and Proposed Mitigation	
562	B	5.3.5.4	87	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.5.4, Subsection 5.3.5.4.1	5.3.5-43	Residual Effects and Their Significance	
563	B	5.3.5.4	87	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.5.4, Subsection 5.3.5.4.5	5.3.5-44	Residual Effects and Their Significance	Table 5.3.5-8: Significance of Residual Project Effects on Groundwater Quantity
564	B	5.3.5.5	87	Cumulative Effects	This section will: • Determine the need for assessing cumulative effects;	3	B	5.3.5.5	5.3.5-45	Cumulative Effects	
565	B	5.3.5.5	87	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.5.5	5.3.5-45	Cumulative Effects	
566	B	5.3.5.5	87	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.5.4 above.	3	B	5.3.5.5	5.3.5-45	Cumulative Effects	
567	B	5.3.5.6	87	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.5.6	5.3.5-46	Limitations	
568	B	5.3.5.7	87	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.5.7	5.3.5-46	Conclusion	
569	B	5.3.6	88	Groundwater Quality		3	B	5.3.6	5.3.6-1	Groundwater Quality	
570	B	5.3.6.1	88	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.6.1	5.3.6-1	Introduction	
571	B	5.3.6.2	88	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.6.2, Subsection 5.3.6.2.1	5.3.6-3	Valued Component Baseline	Appendix 5.1.2.4A: Blackwater Gold Project – 2012 Groundwater Quality Data Collection Summary (Knight Piésold Ltd.) (App Volume 8) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (App Volume 8)

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											Appendix 5.3.5A: Knight Piésold Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Figure 5.3.6-1: Proposed Project Site Arrangement – Year 8 Figure 5.3.6-2: Groundwater Quantity and Groundwater Quality Study Areas
572	B	5.3.6.2	88	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.6.2, Subsection 5.3.6.2.5	5.3.6-9	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
573	B	5.3.6.2	88	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.6.2, Subsection 5.3.6.2.6	5.3.6-9	Valued Component Baseline	
574	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.6.3	5.3.6-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Table 5.3.6-1: Potential Direct Effects on Groundwater Quality by Mine Phase Table 5.3.6-2: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Times TSF D Figure 5.3.6-3: TSF D MODFLOW MODPATH Particle Analysis Table 5.3.6-3: TSF Seepage Quality – Annual Average: Best Estimate Table 5.3.6-4: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Times Pit Lake Table 5.3.6-5: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Time West Waste Rock Dump Table 5.3.6-6: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Time East Waste Rock Dump Table 5.3.6-7: Predicted Annual Drainage Chemistry from Combined East and West Dumps Table 5.3.6-8: Predicted East Dump Only Seepage Quality Table 5.3.6-9: Results of MODFLOW MODPATH Particle Tracking and Advective Travel Time Plant Site Table 5.3.6-10: Annual Predicted Low Grade Ore Stockpile Drainage Quality during Operations Table 5.3.6-11: Example of Sorbed Concentrations Measured in a Rock Solution Experiment, Upscaled as a Function of Particle Size Distribution Figure 5.3.6-4: Conceptual Model for contaminant transport and behaviour in TSF (Closure and

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											Post-Closure) Figure 5.3.6-5: Predicted Seepage Flow by Source to Creek 661 Figure 5.3.6-6: Post-Closure Model Groundwater Elevation Map Figure 5.3.6-7: Post-Closure Pit Lake Model Particle Track Analysis Figure 5.3.6-8: Block Model Cross Section showing ARD Classification Figure 5.3.6-9: Block Model – ARD Classification of Ultimate Pit Walls Figure 5.3.6-10: Block Model – ARD Classification of High Wall after Flooding of Open Pit Figure 5.3.6-11: Relative Zinc Load Contributions to Pit Lake Water Quality by Source Figure 5.3.6-12: Relative Cadmium Load Contributions to Pit Lake Water Quality by Source Figure 5.3.6-13: West Dump MODFLOW MODPATH Particle Analysis Figure 5.3.6-14: East Dump MODFLOW MODPATH Particle Analysis Figure 5.3.6-15: Plant Site MODFLOW MODPATH Particle Analysis
575	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.6.3	5.3.6-10	Potential Effects of the Proposed Project and Proposed Mitigation	
576	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.6.3, Subsection 5.3.6.3.3	5.3.6-42	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.6-12: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Groundwater Quality during Mine Site Development
577	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	The approach for assessing residual effects includes the following: • Interpretation of the results of the groundwater quantity residual effects assessment and the mine waste baseline geochemistry characterization program to determine how the groundwater regime is affected by the proposed Project during its different phases and how project components could influence its quality. The focus is the potential quality of the seepage being generated by mine waste facilities, the expected quality of water in the pit lake during closure and how they may affect downstream surface water;	3	B	5.3.6.3, Subsection 5.3.6.3.2	5.3.6-13	Potential Effects of the Proposed Project and Proposed Mitigation	
578	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	• Qualitative discussion on how groundwater quality within the LSA could potentially be affected. Topics to be discussed include potential groundwater quality changes compared to baseline data for specific elements of concern during mine construction/operations and post-closure; and	3	B	5.3.6.3, Subsection 5.3.6.3.1	5.3.6-11	Potential Effects of the Proposed Project and Proposed Mitigation	
579	B	5.3.6.3	88	Potential Effects of the Proposed Project and Proposed Mitigation	• Identification of elements of concern, and for these elements of concern mitigation strategies to counter potential adverse effects.	3	B	5.3.6.3, Subsection 5.3.6.3.2.4.1	5.3.6-16	Potential Effects of the Proposed Project and Proposed Mitigation	
580	B	5.3.6.4	89	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.6.4	5.3.6-48	Residual Effects and their Significance	

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581	B	5.3.6.4	89	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.6.4, Subsection 5.3.6.4.1.5	5.3.6-49	Residual Effects and their Significance	Table 5.3.6-13: Significance of Residual Effects on Groundwater Quality
582	B	5.3.6.5	89	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.6.5	5.3.6-50	Cumulative Effects	
583	B	5.3.6.5	89	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	5.3.6.5	5.3.6-50	Cumulative Effects	
584	B	5.3.6.5	89	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.6.4 above.	n/a	n/a	5.3.6.5	5.3.6-50	Cumulative Effects	
585	B	5.3.6.6	89	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.6.6	5.3.6-51	Limitations	
586	B	5.3.6.7	89	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.6.7	5.3.6-51	Conclusion	
587	B	5.3.7	89	Wetlands		3	B	5.3.7	5.3.7-1	Wetlands	
588	B	5.3.7.1	89	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.7.1	5.3.7-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
589	B	5.3.7.2	89	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.7.2	5.3.7-7	Valued Component Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (Part 2) (App Volume 6) Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Table 5.3.7-1: Federal and Provincial Legislation and Policies Related to Wetlands Table 5.3.7-2: Description of Wetland Local and Regional Study Areas from Section 4 (Assessment Methodology) Table 5.3.7-3: Description of Linear Component Boundaries used for the Wetlands VC Table 5.3.7-4: Summary Characteristics of Wetland Classes in British Columbia Table 5.3.7-5: Wetland Functions and Assessment Components Table 5.3.7-6: Wetland Classes and Distribution per Mine Site, LSA, RSA Table 5.3.7-7: Area of Wetland Classes in the Baseline Study Areas for the Linear Project Component Corridors Table 5.3.7-8: Wetland Site Associations by Area within Mine Site Table 5.3.7-9: Confirmed At-Risk Wetland Ecosystems in the Baseline Study Areas Table 5.3.7-10: Confirmed Plant Species at Risk in the Baseline Study Areas

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											Figure 5.3.7-1: Map of Wetland Study Area Figure 5.3.7-2: Distribution of Wetland Resources near the Mine Site Figure 5.3.7-3: Distribution of Wetland Resources within the Regional Study Area Figure 5.3.7-4: Distribution of Hydrogeomorphic Classes for 66 Select Wetlands in the Mine Site Figure 5.3.7-5: Verified At-Risk Species and Wetland Ecosystems in the Vicinity of the Mine Site Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
590	B	5.3.7.2	89	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.7.2, Subsection 5.3.7.2.2	5.3.7-7	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
591	B	5.3.7.2	89	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.7.2. Subsection 5.3.7.2.4.11	5.3.7-23	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
592	B	5.3.7.2	89	Valued Component Baseline	The detailed baseline study and effects assessment will use and include the following references as appropriate: • Hanson, L. Swanson, D. Ewing, G. Grabas, S. Meyer, L Ross, M. Watmough, and J. Kirkby 2008. Wetland ecological functions assessment: and overview of approaches. A. Atlantic Region. Technical Report Series Number 497.	3	B	5.3.7.2	5.3.7-7	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
593	B	5.3.7.2	89	Valued Component Baseline	• Government of Canada. 1991. The Federal Policy on Wetland Conservation. Environment Canada. Ottawa, ON.	3	B	5.3.7.2	5.3.7-7	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
594	B	5.3.7.2	89	Valued Component Baseline	• Lynch-Stewart, P., P. Neice, C. Rubec and I. Kessel-Taylor 1996. The Federal Policy on Wetland Conservation: Implementation Guide for Federal Land Managers. 1996. P. Lynch-Stewart, P. Neice, C. Rubec and I. Kessel-Taylor. Canadian Wildlife Service, Environment Canada. 32 p.	3	B	5.3.7.2	5.3.7-7	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
595	B	5.3.7.2	89	Valued Component Baseline	• Milko, R. 1998. Wetlands environmental assessment guideline. Canadian Wildlife Service, Ottawa, ON.	3	B	5.3.7.2, Subsection 5.3.7.2.3.2	5.3.7-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
596	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.7.3	5.3.7-24	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.7-11: Project Activities with Potential to Affect Wetland Functions Table 5.3.7-12: Project Component Interactions with Wetlands VC Table 5.3.7-13: Wetland Impacts Related to Mine Footprint by Class Table 5.3.7-14: Percentage of Wetland Impacts Related to Mine Footprint by Class Figure 5.3.7-6: Wetlands Impacted by the Mine Footprint Table 5.3.7-15: Linear Component Impacts to Wetlands by Wetland Class Table 5.3.7-16: Potential Hydrological Impacts to Existing Wetlands beyond the Mine Footprint by Sub-Catchment

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											Table 5.3.7-17: Mine-Related and Natural Impacts to Blue-Listed Wetlands Table 5.3.7-18: Potential Hydrological Impacts to Verified Ecosystems at Risk Table 5.3.7-19: Impacts on Blue-Listed Wetlands Linear Project Components Figure 5.3.7-7: Potentially Hydrologically Affected Wetlands beyond the Mine Footprint Figure 5.3.7-8: Potential Impacts to Verified Ecosystems at Risk Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
597	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.7.3	5.3.7-24	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
598	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.7.3, Subsection 5.3.7.3.7	5.3.7-39	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.7-20: Total Wetland Extent Following Wetland Creation on Site Table 5.3.7-21: Proposed Wetland Habitats at Compensation Sites Table 5.3.7-22: Wetland Impacts and Compensation Table 5.3.7-23: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Wetlands during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
599	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	Following the production of a baseline map that includes wetland ecosystems, the proposed Project footprint is applied to identify potential effects (direct and indirect) on wetland resources within the LSA and RSA. The results of the effects assessment include the following: • Description of wetland Baseline Case, including a wetland mapping product;	3	B	5.3.7.2, Subsection 5.3.7.2.4	5.3.7-9	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.3.7-2: Distribution of Wetland Resources near the Mine Site Figure 5.3.7-3: Distribution of Wetland Resources within Regional Study Area Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
600	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	• Identification of potential effects on wetlands, including wetland functions described in the baseline report, associated with the proposed Project development. Potential effects (i.e., wetland losses, effects caused by hydrological changes, and effects caused by groundwater drawdown) will be quantitatively and qualitatively assessed as appropriate by comparing baseline conditions with proposed development; and	3	B	5.3.7.3	5.3.7-24	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
601	B	5.3.7.3	90	Potential Effects of the Proposed Project and Proposed Mitigation	• Mitigation measures to comply with the Federal Policy on Wetland Conservation (Government of Canada, 1991), including a conceptual wetlands mitigation and compensation plan.	3	B	5.3.7.3, Subsection 5.3.7.3.7	5.3.7-39	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
602	B	5.3.7.4	91	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.7.4, Subsection 5.3.7.4.1	5.3.7-51	Residual Effects and their Significance	Table 5.3.7-24: Summary of Potential Effects to be Carried Forward into the Assessment of Wetlands Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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603	B	5.3.7.4	91	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.7.4 Subsection 5.3.7.4.2	5.3.7-51	Residual Effects and their Significance	Table 5.3.7-25: Residual Effects Assessment for Loss of Wetland Functions Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
604	B	5.3.7.5	91	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.7.5, Subsection 5.3.7.5.1	5.3.7-52	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
605	B	5.3.7.5	91	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.7.5 Subsection 5.3.7.5.2	5.3.7-53	Cumulative Effects	Table 5.3.7-26: Interactions between Wetlands VC and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
606	B	5.3.7.5	91	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.7.4 above.	3	B	5.3.7.5 Subsection 5.3.7.5.4	5.3.7-54	Cumulative Effects	Table 5.3.7-27: Residual Cumulative Effects Assessment for Loss of Wetland Extent and Functions Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
607	B	5.3.7.6	91	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.7.6	5.3.7-55	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
608	B	5.3.7.7	91	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.7.7	5.3.7-55	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
609	B	5.3.8	91	Fish	The representative species or indicators for fish are kokanee and rainbow trout. The assessment described in the subsections below will be conducted for each species.	3	B	5.3.8	5.3.8-1	Fish	
610	B	5.3.8.1	91	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.8.1	5.3.8-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
611	B	5.3.8.2	92	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.8.2	5.3.8-13	Valued Component Baseline	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Appendix 5.1.2.6E: Blackwater Gold Project Effects Assessment of Davidson Creek Flow Augmentation on Homing of Salmonid Fish (AMEC E&I) (App Volume 12) Table 5.3.8-1: Summary of Fish Studies Conducted for the Project, 2011-2013 Table 5.3.8-2: Federal and Provincial Legislation

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											and Policies Related to Fish Table 5.3.8-3: Selected Indicators and Measurable Factors for Fish VC Table 5.3.8-4: Fish Species Captured in the Mine Site LSA Table 5.3.8-5: Fish Species Present in the Mine Site LSA and RSA Table 5.3.8-6: Life History Periodicity Chart for Kokanee and Rainbow Trout, LSA and RSA, 2011-2013 Table 5.3.8-7: Number and Density of Fish in Tatelkuz Lake, July 2013, from Hydroacoustic Survey Table 5.3.8-8: Kokanee Spawn Timing, LSA, 2011-2013 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
612	B	5.3.8.2	92	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.8.2, Subsection 5.3.8.2.11	5.3.8-31	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
613	B	5.3.8.2	92	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.8.2, Subsection 5.3.8.2.12	5.3.8-31	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
614	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.8.3	5.3.8-32	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.3.8-1: Blackwater Project General Arrangement Plan Table 5.3.8-9: Mine Site Components and Footprint Table 5.3.8-10: Project Activities during the Construction Phase Table 5.3.8-11: Project Activities during the Operations Phase Table 5.3.8-12: Project Activities during the Closure/Decommissioning Phase Table 5.3.8-13: Stream Crossing Sites of the Mine Access Road Table 5.3.8-14: Airstrip Access Road Crossing Sites Table 5.3.8-17: Kluskus-Ootsa FSR Realignment Stream Crossing Sites Table 5.3.8-18: Streams Affected by the Mine Site Table 5.3.8-19: Potential Effects on Fish of Development of the Mine Site Table 5.3.8-29: Potential Effects on Fish of the

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											Mine Access Road without Mitigation Table 5.3.8-31: Potential Effects on Fish of the Tatelkuz Lake Inlet Structure Table 5.3.8-33: Potential Effects on Fish of Water Diversion from Tatelkuz Lake Table 5.3.8-43: Potential Effects on Fish of the Water Pipeline Table 5.3.8-45: Potential Effects on Fish of the Freshwater Reservoir Table 5.3.8-46: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Freshwater Reservoir Table 5.3.8-47: Potential Effects to Fish from the Airstrip Access Road without Mitigation Table 5.3.8-49: Potential Effects to Fish from the Transmission Line Table 5.3.8-51: Potential Effect to Fish from Upgrading and Realigning the Kluskus and Kluskus-Ootsa FSRs Figure 5.3.8-2: Location of the Blackwater Project Mine Access Road and Associated Stream Crossings Figure 5.3.8-3: Location of the Blackwater Project Airstrip Access Road and Associated Stream Crossings Figure 5.3.8-7: Location of Blackwater Project Proposed Transmission Line ROW Figure 5.3.8-8: Location of the Blackwater Project Kluskus FSR and the Kluskus-Ootsa FSR Figure 5.3.8-9: Distribution of Permanently Altered or Destroyed Fish Habitat in the Davidson Creek and Creek 661 Watersheds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
615	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.8.3 Subsection 5.3.8.3.9	5.3.8-127	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.8-54: Potential Adverse Effects from Other Past, Present, and Certain or Reasonably Foreseeable Projects or Activities in the vicinity of the Blackwater Project Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
616	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.8.3	5.3.8-32	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.8-20: Mitigation Measures to Avoid or Reduce Potential Effects on Fish of Mine Site Development Table 5.3.8-23: Mitigation Measures to Eliminate or Reduce Effects on Fish of Water Quality Table 5.3.8-28: Mitigation Measures to Reduce Effects on Fish of Temperature Changes Caused by Mine Site Activities Table 5.3.8-30: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Mine Access Road Table 5.3.8-32: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Tatelkuz Lake Inlet Structure Table 5.3.8-42: Mitigation Measures to Eliminate

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											or Reduce Potential Effects to Fish due to Lower Water Surface Elevations in Tatelkuz Lake Table 5.3.8-44: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to Stream Crossings of the Water Pipeline Table 5.3.8-46: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Freshwater Reservoir Table 5.3.8-48: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Airstrip Access Road Table 5.3.8-50: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to the Transmission Line ROW Table 5.3.8-52: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish from the Kluskus and Kluskus-Ootsa FSRs Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
617	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	The methods pertaining to the assessment include the following: • Potential effects on fish due to potential changes in water quality in study area streams and lakes are assessed using available guidelines for the protection of freshwater aquatic biota;	3	B	5.3.8.3	5.3.8-32	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.8-21: Potential Effects on Fish Habitat of Changes in Surface Water Quality by Mine Phase Table 5.3.8-22: Potential Effects on Fish of Changes in Surface Water Quality Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
618	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	• Potential effects on fish due to potential changes in water temperature in study area streams are assessed by comparing the predicted thermal regimes to baseline thermal regimes and to optimal and tolerance limits for rainbow trout and kokanee; and	3	B	5.3.8.3	5.3.8-32	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.8-25: Predicted Differences between Background and Operations-Closure Temperatures in Davidson Creek Table 5.3.8-26: Calculated Davidson Creek Water Temperature (°C) at the Plunge Pool with TSF Discharge and Seepage Table 5.3.8-27: Potential Effects on Fish of Changes in Water Temperature of Davidson Creek Caused by Flow Augmentation Figure 5.3.8-10: Predicted Monthly Temperature Comparisons in Davidson Creek with 8 m, 10 m and 12 m Water Intakes in Tatelkuz Lake Figure 5.3.8-11: Measured Temperatures at Three Locations on Davidson Creek Figure 5.3.8-12: Measured and Estimated Snake Lake Surface Water Temperature Figure 5.3.8-13: Baseline Water Temperature Envelope of Lower and Middle Davidson Creek (blue) Compared to BC Guidelines for Rainbow Trout Spawning (Green), Incubation (Purple), and Rearing (Orange) Figure 5.3.8-14: Baseline Water Temperature Envelope of Lower and Middle Davidson Creek (blue) Compared to BC Guidelines for Kokanee Migration (red), Spawning (green), and Incubation (purple) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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619	B	5.3.8.3	92	Potential Effects of the Proposed Project and Proposed Mitigation	• Potential habitat effects, including potential flow effects, are assessed using the fish habitat VC, which will consider results of the Instream Flow Study.	3	B	5.3.8.3	5.3.8-32	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Figure 5.3.8-4: Mean Daily Baseline and Mitigation Flow Regimes for Middle Davidson Creek at FSS Outfall Figure 5.3.8-5: Freshwater Supply Pipeline Figure 5.3.8-6: Dam and Freshwater Reservoir Figure 5.3.8-15: Percent Change in Rainbow Trout HU from Baseline Conditions in an Average Year Figure 5.3.8-16: Percent Change in Rainbow Trout HU from Baseline Conditions in a 1:50 Dry Year Figure 5.3.8-17: Percent Change in Kokanee HU from Baseline Conditions in an Average Year Figure 5.3.8-18: Percent Change in Kokanee HU from Baseline Conditions in a 1:50 Dry Year Figure 5.3.8-19: The Percent Change from Baseline Conditions of Available Potential Spawning Habitat Units for Mountain Whitefish in an Average Annual Year and 1 in 50 Year Dry Year Table 5.3.8-15: Target Flow Regime for Davidson Creek at FSS Outfall for Average or Above Average Water Years Table 5.3.8-16: Target Flow Regime for Davidson Creek at FSS Outfall for Period 2 December to 30 June during Below Average Water Years Table 5.3.8-24: Potential Effects on Fish Homing of Flow Augmentation of Davidson Creek Table 5.3.8-34: Rainbow Trout HSI for Lake Habitat Table 5.3.8-35: Kokanee HSI for Lake Habitat Table 5.3.8-36: HSI for each Littoral Habitat Category for Each Fish Indicator Species Table 5.3.8-37: Change in Rainbow Trout HU in the 0 to 1 m Depth Stratum of Tatelkuz Lake between Baseline and Project Phases Table 5.3.8-38: Change in Kokanee HU in 0 to 1 m Depth Stratum of Tatelkuz Lake between Baseline and Project Phases Table 5.3.8-39: Mountain Whitefish Habitat Suitability Index for Lacustrine Habitat Table 5.3.8-40: Summary of the Spawning Habitat Suitability Index (HSI) for Mountain Whitefish according to the Littoral Habitat Classes Found in Tatelkuz Lake 0 to 1 Depth Strata Table 5.3.8-41: Summary of Potential Habitat Unit Effects for Mountain Whitefish in the 0 to 1 m Depth Strata in Tatelkuz Lake Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
620	B	5.3.8.4	92	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.8.3, 5.3.8-126 5.3.8-130		Residual Effects and their Significance	Table 5.3.8-53: Residual Effects on Fish VC Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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								Subsection 5.3.8.3.8, 5.3.8.4			
621	B	5.3.8.4	92	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.8.4	5.3.8-130	Residual Effects and their Significance	Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.8-56: Confidence Table 5.3.8-57: Significance of Residual Effects on Rainbow Trout of the Mine Site Footprint Table 5.3.8-58: Significance of Residual Effect on Homing of Fish to Davidson Creek Table 5.3.8-59: Significance of Residual Effects on Rainbow Trout from Elevated Methylmercury in Lake 01682LNRS Table 5.3.8-60: Significance of Residual Effects of Water Temperature on Fish Habitat in Davidson Creek Table 5.3.8-61: Significance of Residual Effect on Fish using Upper 1 m of Littoral Habitat in Tatelkuz Lake Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
622	B	5.3.8.5	93	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.8.5	5.3.8-140	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
623	B	5.3.8.5	93	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.8.5, Subsection 5.3.8.5.1, Subsection 5.3.8.5.2	5.3.8-140 5.3.8-142	Cumulative Effects	Table 5.3.8-62: Project-Related Residual Effects on the Fish VC: Rationale for Carrying Forward into the CEA Table 5.3.8-63: Project-Related Residual Effects on Fish VC – Rationale for Carrying Forward into Cumulative Effects Assessment Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
624	B	5.3.8.5	93	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.8.4 above.	3	B	5.3.8.5, Subsection 5.3.8.5.2	5.3.8-142	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
625	B	5.3.8.6	93	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.8.6	5.3.8-149	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
626	B	5.3.8.7	93	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.8.7	5.3.8-149	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
627	B	5.3.9	93	Fish Habitat		3	B	5.3.9	5.3.9-1	Fish habitat	
628	B	5.3.9.1	93	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	3	B	5.3.9.1	5.3.9-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
629	B	5.3.9.2	93	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	3	B	5.3.9.2	5.3.9-7	Valued Component Baseline	Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Appendix 5.1.2.6E: Blackwater Gold Project Effects Assessment of Davidson Creek Flow Augmentation on Homing of Salmonid Fish (AMEC E&I) (App Volume 12)

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											Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 5.3.9-1: Summary of Fish Habitat Baseline Studies for the Project, 2011-2013 Table 5.3.9-2: Selected Indicators and Measurable Factors for Fish Habitat VC Table 5.3.9-3: Fish Habitat Area in Streams and Ponds of Watersheds of the LSA Table 5.3.9-4: Fish Habitat Units by Life History Stage in Streams and Ponds of Watersheds of the LSA Table 5.3.9-5: Habitat Characteristics Associated with BMI Groups Table 5.3.9-6: Elevation and Bathymetry of Lakes of the LSA Figure 5.3.9-1: Mean Water Surface Elevation of Tatelkuz Lake Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
630	B	5.3.9.2	93	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	3	B	5.3.9.2, Subsection 5.3.9.2.5	5.3.9-24	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
631	B	5.3.9.2	93	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	3	B	5.3.9.2, Subsection 5.3.9.2.1	5.3.9-7	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
632	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 5.3.9-7: Potential Effects on Fish Habitat of the Mine Site Table 5.3.9-8: Potential Effects on Fish Habitat of the Mine Site Footprint Table 5.3.9-14: Potential Effects on Fish Habitat Upstream of the Mine Site Table 5.3.9-34: Potential Effects on Fish Habitat of Changes in Water Quality at the Mine Site Table 5.3.9-36: Potential Effects on Fish Habitat of Davidson Creek of Temperature Changes Table 5.3.9-38: Potential Effects on Fish Habitat of the Mine Access Road without Mitigation Table 5.3.9-40: Potential Effects on Fish Habitat of the Tatelkuz Lake Inlet Structure Table 5.3.9-42: Potential Effects on Fish Habitat of Tatelkuz Lake from Water Diversion

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											Table 5.3.9-44: Estimated Tatelkuz Lake Water Surface Elevations (WSE) by Mine Phase Table 5.3.9-49: Potential Effects on Fish Habitat of the Water Pipeline Table 5.3.9-51: Potential Effects on Fish Habitat of the Freshwater Reservoir Table 5.3.9-53: Potential Effects on Fish Habitat of Stream Crossing AA-002 of the Airstrip Access Road Table 5.3.9-55: Potential Effects to Fish Habitat from the Transmission Line Table 5.3.9-57: Potential Effects to Fish Habitat from Upgrading and Realigning the Kluskus and Kluskus-Ootsa FSRs Figure 5.3.9-10: Mean Monthly Water Surface Elevations in Tatelkuz Lake Figure 5.3.9-11: Estimated Average 1 in 50 Dry Year Water Surface Elevations in Tatelkuz Lake Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
633	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	3	B	5.3.9.3 Subsection 5.3.9.3.9	5.3.9-118	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.9-60: Potential Adverse Effects from Other Past, Present, and Certain or Reasonably Foreseeable Projects or Activities in the vicinity of the Blackwater Project Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
634	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 5.3.9-13: Mitigation Measures to Reduce the Effects on Fish Habitat of the Mine Site Table 5.3.9-16: Mitigation Measures to Avoid and Reduce Isolation of Fish Habitat Upstream of the Mine Site Table 5.3.9-35: Mitigation Measures to Avoid or Reduce Potential Effects on Fish Habitat of the Mine Site Table 5.3.9-37: Mitigation Measures to Reduce Potential Effects on Fish Habitat of Changes in Water Temperature of Davidson Creek Table 5.3.9-39: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish Habitat of the Mine Access Road Table 5.3.9-41: Mitigation Measures to Eliminate or Reduce Potential Effects on Fish Habitat of the Tatelkuz Lake Inlet Structure Table 5.3.9-48: Mitigation Measures to Eliminate Potential Effects to Fish Habitat due to Lower Water Surface Elevations (WSE) in Tatelkuz Lake Table 5.3.9-50: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish due to Stream Crossings of the Water Pipeline Table 5.3.9-52: Mitigation Measures to Eliminate Potential Effects on Fish Habitat of the Freshwater Reservoir Table 5.3.9-54: Mitigation Measures to Eliminate

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											or Reduce Potential Effects to Fish Habitat due to the Airstrip and Airstrip Access Road Table 5.3.9-56: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish Habitat due to the Transmission Line Table 5.3.9-58: Mitigation Measures to Eliminate or Reduce Potential Effects to Fish Habitat from the Kluskus and Kluskus-Ootsa FSRs Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
635	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	The methods pertaining to the assessment include the following: • The quantity and quality of fish habitat affected by the proposed Project assessed using a Habitat Evaluation Procedures approach; and	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 5.3.9-9: Stream Area Lost Under the TSF Table 5.3.9-10: Stream Area Lost Under the ECD, Freshwater Reservoir, and Seepage Collection Facilities Table 5.3.9-11: Stream Area Lost Under Mine Site Facilities, West Waste Rock Dump, Low-Grade Stockpile, and Open Pit Table 5.3.9-12: Streams Area Lost Under the Mine Site Facilities, West Waste Rock Dump, Low-Grade Stockpile, and Open Pit Table 5.3.9-15: Streams Area Isolated by the Mine Footprint in Davidson Creek Table 5.3.9-17: Total Watershed Area by Project Phase Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
636	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	• Modelled relationships between flow and the quantity and quality of fish habitat are used to assess potential effects of flow on fish habitat. An Instream Flow Study approach based on BC Instream Flow Guidelines (Lewis et al., 2004) will be used.	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Table 5.3.9-18: Surface Water Flows for Selected Watershed Model Nodes, Baseline and Percent Change by Project Phase, for the Unmitigated Scenario Table 5.3.9-19: Biological Stanzas for IFS Analyses in Streams of the LSA Table 5.3.9-20: Summary of Potential Flow-Related Effects by Stream Section for the Unmitigated Scenario in Davidson Creek Table 5.3.9-21: Summary of Potential Flow-Related Effects for Unmitigated Scenario in Lower Chedakuz Creek Table 5.3.9-22: Summary of Potential Flow Effects for the Unmitigated Scenario in Upper Creek 661 (WMN H1) Table 5.3.9-23: Summary of Potential Flow Effects for the Unmitigated Scenario in Creek 505659 (WMN 1-505659) Table 5.3.9-24: Summary of Potential Flow-Related Effects for the Unmitigated Scenario in Creek 661 Table 5.3.9-25: Summary of Minimum Monthly Winter Stanza Flows for Each Project Phase for the Unmitigated Scenario, and Comparison to Baseline Minimum Monthly Winter Stanza Flows

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637	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	The anticipated results of the assessment include the following: • Outputs are a summation of the total area (square metres (m^2)) and total habitat units (i.e., area scaled by relative quality) of fish habitat, by stream or lake, by fish species, and by life stage, affected by all stages of the proposed Project;	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.3.9-27: Surface Water Flows for Selected Watershed Model Nodes, Baseline and Percent Change by Project Phase for the Mitigated Scenario Table 5.3.9-28: Biological Stanzas for Analyses in Creek 705 Table 5.3.9-32: Summary of Minimum Monthly Winter Stanza Flows for Each Project Phase, and Comparison to Baseline Minimum Monthly Winter Stanza Flows, Mitigated Scenario Figure 5.3.9-2: Monthly Flows in Davidson Creek at Nodes H2 and 1-DC for Baseline and Mitigated Scenarios Figure 5.3.9-3: Monthly Flows in Lower Chedakuz Creek at Nodes 15-CC and H5 for Baseline and Mitigated Scenarios Figure 5.3.9-4: Monthly Flows in Creek 661 at Nodes H1 and 1-661 for Baseline and Mitigated Scenarios Figure 5.3.9-5: Monthly Flows in Creek 705 at Nodes 6-705 and 1-705 for Baseline and Mitigated Scenarios Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19) Table 5.3.9-26: Changes in Total Watershed Area by Project Phase for the Mitigated Scenario Table 5.3.9-29: Summary of Potential Flow-Related Effects for Mitigated Scenario in Davidson Creek Table 5.3.9-30: Summary of Potential Flow-Related Effects for Mitigated Scenario for Creek 705 Table 5.3.9-31: Summary of Potential Flow-Related Effects for Mitigated Scenario in Lower Chedakuz Creek Table 5.3.9-43: Littoral Habitat Types in Tatelkuz Lake, July 2013 Table 5.3.9-45: Seasonal Change in Littoral Habitat Area of Tatelkuz Lake in the 0 to 1 m Depth Stratum during Construction (Year -2) Table 5.3.9-46: Seasonal Change in Littoral Habitat Area of Tatelkuz Lake in the 0 to 1 m Depth Stratum during Operations (Year +17) Table 5.3.9-47: Seasonal Changes in Littoral Habitat Area of Tatelkuz Lake in the 0 to 1 m Depth Stratum during Closure (Year +20) Figure 5.3.9-6: Summary of Residual Change in Total Habitat Area for Davidson Creek Downstream of TSF Figure 5.3.9-7: Summary of Residual Change in Total Habitat Area in Chedakuz Creek for Modelled Sections Downstream of Tatelkuz Lake Figure 5.3.9-8: Summary of Residual Change in Total Habitat Area in Creek 661 Downstream of Creek 505659

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											Figure 5.3.9-9: Summary of Residual Change in Total Habitat Area in Creek 705 Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
638	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	• Relationships between discharge and wetted width, depth, and velocity in different habitat types (e.g., runs, riffles, pools) are used to assess potential changes in the suitability of instream habitat to species and life stages potentially affected; and	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
639	B	5.3.9.3	93	Potential Effects of the Proposed Project and Proposed Mitigation	• A detailed FMOP will be developed to address any unavoidable effects on fisheries. The plan will provide DFO with the information necessary to determine the potential effects on fisheries of proposed Project activities.	3	B	5.3.9.3	5.3.9-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
640	B	5.3.9.4	94	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	3	B	5.3.9.3, Subsection 5.3.9.3.2.2.2, Subsection 5.3.9.3.8, 5.3.9.4	5.3.9-53 5.3.9-118 5.3.9-121	Residual Effects and their Significance	Table 5.3.9-33: Summary of Potential Residual Effects of Changes in Flow after Mitigation Table 5.3.9-59: Residual Effects on Fish Habitat VC Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
641	B	5.3.9.4	94	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	3	B	5.3.9.4	5.3.9-121	Residual Effects and their Significance	Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.3.9-62: Confidence Table 5.3.9-63: Significance of Residual Effects on Fish Habitat of the Mine Site Footprint Table 5.3.9-64: Significance of Residual Effect on Fish Habitat in Davidson Creek of Flows Downstream of the Mine Site Table 5.3.9-65: Significance of Residual Effect on Fish Habitat in Lower Chedakuz Creek Downstream of Tatelkuz Lake Table 5.3.9-66: Significance of Residual Effect on Fish Habitat in Creek 661 Downstream of Creek 505659 Table 5.3.9-67: Significance of Residual Effect on Fish Habitat of Flow Changes in Creek 661 Upstream of Creek 505659 Table 5.3.9-68: Significance of Residual Effect on Fish Habitat of Flows in Creek 505659 Table 5.3.9-69: Significance of Residual Effect on Fish Habitat in Creek 705 Table 5.3.9-70: Significance of Residual Effects on Rainbow Trout from Elevated Methylmercury in Lake 01682LNRS Table 5.3.9-71: Significance of Residual Effects of Water Temperature on Fish Habitat in Davidson Creek Table 5.3.9-72: Magnitude of Residual Effect on Littoral Habitat in Tatelkuz Lake Table 5.3.9-73: Significance of Residual Effect on Littoral Habitat in Tatelkuz Lake Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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642	B	5.3.9.5	94	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	3	B	5.3.9.5	5.3.9-136	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
643	B	5.3.9.5	94	Cumulative Effects	• Assess potential cumulative effects; and	3	B	5.3.9.5, Subsection 5.3.9.5.1, Subsection 5.3.9.5.2	5.3.9-136 5.3.9-138	Cumulative Effects	Table 5.3.9-74: Project-Related Residual Effects on the Fish Habitat VC: Rationale for Carrying Forward into the CEA Table 5.3.9-75: Project-Related Residual Effects on Fish Habitat VC – Rationale for Carrying Forward into Cumulative Effects Assessment Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
644	B	5.3.9.5	94	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.3.9.4 above.	3	B	5.3.9.5, Subsection 5.3.9.5.2	5.3.9-138	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
645	B	5.3.9.6	95	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	3	B	5.3.9.6	5.3.9-141	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
646	B	5.3.9.7	95	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	3	B	5.3.9.7	5.3.9-141	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
647	**B**	**5.4**	**95**	**Terrestrial Environment Effects Assessment**							
648	B	5.4	95	Terrestrial Environment Effects Assessment	This section of the Application will present the identification and selection of valued components of the Terrestrial Environment following the methods described in Section 4.2.	4	B	5.4	5.4.1-1	Terrestrial Environment Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
649	B	5.4	95	Terrestrial Environment Effects Assessment	This section will also present the assessment of effects for the proposed valued components following the methods described in Section 4.3.	4	B	5.4	5.4.1-1	Terrestrial Environment Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
650	B	5.4.1	95	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for the Terrestrial Environment.	4	B	5.4.1	5.4.1-1	Identification and Selection of Valued Components	Table 5.4.1-1: Candidate Valued Component Rationale Table 5.4.1-2: Evaluation of Candidate Valued Components Table 5.4.1-3: Candidate Valued Components Not Selected Table 5.4.1-4: Selected Valued Components and Rationale of Indicators and/or Factor Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
651	B	5.4.2	95	Physiography and Topography							
652	B	5.4.2.1	95	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.2.1	5.4.2-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
653	B	5.4.2.2	95	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.2.2	5.4.2-1	Valued Component Baseline	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.4.2-1: Summary of Slope Classes Table 5.4.2-2: Summary of Alterations to Terrain Units within the Mine Site Figure 5.4.2-1: Proposed Project Development Overlaid on the Baseline Slope Classes Defined for the LSA

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
654	B	5.4.2.2	95	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.2.2, Subsection 5.4.2.2.4	5.4.2-9	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
655	B	5.4.2.2	95	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.2.2, Subsection 5.4.2.2.5	5.4.2-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
656	B	5.4.2.3	95	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.2.3	5.4.2-9	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.2-3: Potential Direct Project Effects on Physiography and Topography Table 5.4.2-4: Potential Indirect Project Effects on Other Valued Components Table 5.4.2-5: Summary of Potential Project Effects to be Carried Forward into the Assessment for Physiography and Topography Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
657	B	5.4.2.3	95	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.2.3, Subsection 5.4.2.3.1	5.4.2-11	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
658	B	5.4.2.3	95	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.2.3, Subsection 5.4.2.3.4	5.4.2-17	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.2-6: Potential Project Effects by Project Phase on Physiography and Topography VC and Mitigation Measures Table 5.4.2-7: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Physiography and Topography during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
659	B	5.4.2.3	95	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment of project effects on the physiography and topography is completed in part through spatial analysis using GIS software. To assess the potential effects, the proposed mine footprint, including all facilities, is overlain on the baseline terrain map. Based on the Project Description (AMEC, 2012) the expected changes to the baseline slope and topography conditions are calculated. It is anticipated that project effects will result in a residual effect on the landscape, as the alteration of the baseline conditions to physiography and topography cannot be completely reversed at the completion of the project life cycle. For example, it is expected that waste rock piles, tailings areas and the open mine pit will remain once operations and closure are complete.	4	B	5.4.2.3, Subsection 5.4.2.3.2	5.4.2-11	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
660	B	5.4.2.4	96	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.2.4	5.4.2-21	Residual Effects and their Significance	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
661	B	5.4.2.4	96	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and	4	B	5.4.2.4, Subsection 5.4.2.4.2	5.4.2-21	Residual Effects and their Significance	Table 5.4.2-8: Residual Effects Assessment by Project Development Phase for Physiography and Topography VC Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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					• Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.						
662	B	5.4.2.5	96	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.2.5	5.4.2-23	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
663	B	5.4.2.5	96	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.2.5, Subsection 5.4.2.5.2	5.4.2-23	Cumulative Effects	Table 5.4.2-9: Project-Related Residual Effects; Rationale for Carrying Forward into the CEA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
664	B	5.4.2.5	96	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.2.4 above.	4	B	5.4.2.5, Subsection 5.4.2.5.2	5.4.2-23	Cumulative Effects	Table 5.4.2-10: Residual Cumulative Effects Assessment on Physiography and Topography VC by Project Development Phase Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
665	B	5.4.2.6	96	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.2.6	5.4.2-24	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
666		5.4.2.7	96	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.2.7	5.4.2-24	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
667	B	5.4.3	97	Surficial Geology and Soil Cover							
668	B	5.4.3.1	97	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.3.1	5.4.3-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
669	B	5.4.3.2	97	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.3.2	5.4.3-2	Valued Component Baseline	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.4.3-1: Summary of Disturbances to Surficial Material within the LSA and Project Footprint Table 5.4.3-2: Summary of Disturbance to Soil Associations within the Proposed Project LSA Table 5.4.3-3: Summary of Disturbances to Surficial Material within the Proposed Mine Access Road LSA Table 5.4.3-4: Summary of Disturbance to Soil Associations within the Proposed Project Mine Access Road LSA Table 5.4.3-5: Summary of Disturbances to Surficial Material within the Proposed Airstrip LSA Table 5.4.3-6: Summary of Disturbance to Soil Associations within the Proposed Project Airstrip LSA Figure 5.4.3-1: Proposed Project Development Overlaid on the Baseline Surficial Geology Units Figure 5.4.3-2: Proposed Project Development Overlaid on the Baseline SMUs Figure 5.4.3-3: Proposed Project Mine Access Road Development Overlaid on the Baseline Surficial Geology Units Figure 5.4.3-4: Proposed Project Mine Access Road Development Overlaid on the Baseline SMUs

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											Figure 5.4.3-5: Proposed Project Airstrip Development Overlaid on the Baseline Surficial Geology Map Figure 5.4.3-6: Proposed Project Airstrip Development Overlaid on the Baseline SMUs Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
670	B	5.4.3.2	97	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.3.2, Subsection 5.4.3.2.2	5.4.3-2	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
671	B	5.4.3.2	97	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.3.2, Subsection 5.4.3.2.3	5.4.3-3	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
672	B	5.4.3.3	97	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, and closure phases;	4	B	5.4.3.3	5.4.3-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.3-7: Potential direct Project Effects on Surficial Geology and Soil Cover VC Table 5.4.3-8: Potential indirect Project effects on other VCs Table 5.4.3-9: Summary of Potential Project Effects to be Carried Forward into the Assessment for Soil Cover Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
673	B	5.4.3.3	97	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.3.3	5.4.3-18	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
674	B	5.4.3.3	97	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.3.3, Subsection 5.4.3.3.3	5.4.3-25	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.3-10: Potential Project Effect by Project Phase on Surficial Geology and Soil Cover VC and Mitigation Measures Table 5.4.3-11: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Surficial Geology and Soil Cover during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
675	B	5.4.3.4	97	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.3.4, Subsection 5.4.3.4.1	5.4.3-28	Residual Effects and their Significance	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
676	B	5.4.3.4	97	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.3.4, Subsection 5.4.3.4.2	5.4.3-29	Residual Effects and their Significance	Table 5.4.3-12: Residual Effects Assessment by Project Development Phase for Surficial Geology and Soil Cover VC Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
677	B	5.4.3.5	98	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.3.5	5.4.3-31	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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678	B	5.4.3.5	98	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.3.5	5.4.3-31	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
679	B	5.4.3.5	98	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.3.4 above.	4	B	5.4.3.5	5.4.3-31	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
680	B	5.4.3.6	98	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.3.6	5.4.3-31	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
681	B	5.4.3.7	98	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.3.7	5.4.3-31	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
682	B	5.4.4	98	Soil Quality							
683	B	5.4.4.1	98	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.4.1, Subsection 5.4.4.1.1	5.4.4-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
684	B	5.4.4.2	98	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.4.2	5.4.4-2	Valued Component Baseline	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
685	B	5.4.4.2	98	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.4.2, Subsection 5.4.4.2.2	5.4.4-2	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
686	B	5.4.4.2	98	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.4.2, Subsection 5.4.4.2.3	5.4.4-3	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
687	B	5.4.4.3	99	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, and closure phases;	4	B	5.4.4.3	5.4.4-10	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.4-4: Potential Direct Project Effects on Soil Quality VC Table 5.4.4-5: Potential Indirect Project Effects on Other VCs Table 5.4.4-6: Summary of Potential Project Effects to be Carried Forward into the Assessment for Soil Quality VC Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
688	B	5.4.4.3	99	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.4.3	5.4.4-10	Potential Effects of the Proposed Project and Proposed Mitigation	
689	B	5.4.4.3	99	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.4.3, Subsection 5.4.4.3.8	5.4.4-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.4-7: Potential Project Effect by Project Phase on Soil Quality VC and Mitigation Measures Table 5.4.4-8: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Soil Quality during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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690	B	5.4.4.3	99	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment of the Project effects on soil quality is completed in part through spatial analysis using GIS software. The proposed mine footprint including all facilities is overlain on the baseline reclamation suitability map created for the proposed Project. Based on the Project Description (AMEC, 2012), the expected changes to the baseline soil quality are calculated and assessed qualitatively.	4	B	5.4.4.2, Subsection 5.4.4.2.4 5.4.4.3	5.4.4-3 5.4.4-10	Valued Component Baseline Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.4-1: Alterations to Reclamation Suitability Ratings within the Proposed Project LSA and Project Footprint Table 5.4.4-2: Alterations to Reclamation Suitability Ratings within the Mine Site Access Road LSA and Proposed Project Footprint Table 5.4.4-3: Alterations to Reclamation Suitability Ratings within the Proposed Project Airstrip LSA and Project Footprint Figure 5.4.4-1: Proposed Project Development Overlaid on the Baseline Reclamation Suitability Ratings Figure 5.4.4-2: Proposed Project Mine Site Access Road Overlaid on the Baseline Reclamation Suitability Rating Figure 5.4.4-3: Proposed Airstrip Project Development Overlaid on the Baseline Reclamation Suitability Ratings
691	B	5.4.4.3	99	Potential Effects of the Proposed Project and Proposed Mitigation	Changes to soil physical and chemical properties occur as a result of soil disturbance. Soil disturbance is a physical effect that can alter the quality of the soil through admixing, compaction, rutting, or erosion. Soil contamination from mining dust or other foreign substances can also affect the quality of the soil for use in reclamation.	4	B	5.4.4.3, Subsection 5.4.4.3.4, Subsection 5.4.4.3.8.4	5.4.4-11 5.4.4-20	Potential Effects of the Proposed Project and Proposed Mitigation	
692	B	5.4.4.4	99	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.4.4, Subsection 5.4.4.4.1	5.4.4-23	Residual Effects and their Significance	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
693	B	5.4.4.4	99	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.4.4, Subsection 5.4.4.4.2	5.4.4-23	Residual Effects and their Significance	Table 5.4.4-9: Residual Effects Assessment by Project Development Phase for Soil Quality Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
694	B	5.4.4.5	99	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.4.5	5.4.4-26	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
695	B	5.4.4.5	99	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.4.5	5.4.4-26	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
696	B	5.4.4.5	99	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.4.4 above.	4	B	5.4.4.5	5.4.4-26	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
697	B	5.4.4.6	100	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.4.6	5.4.4-26	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
698	B	5.4.4.7	100	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable	4	B	5.4.4.7	5.4.4-26	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
699	B	5.4.5	100	Ecosystem Composition							
700	B	5.4.5.1	100	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.5.1	5.4.5-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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701	B	5.4.5.2	100	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.5.2	5.4.5-2	Valued Component Baseline	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Figure 5.4.5-1: Terrain Soils and Vegetation Study Area Table 5.4.5-1: Target Sampling Intensity Levels for Ecosystem Mapping Table 5.4.5-2: Relationship between BGC Unit and Old-Growth Forest Table 5.4.5-3: Traditional Use Plant Species Table 5.4.5-4: Ecosystems Likely to Have Berry Picking Potential Table 5.4.5-5: Baseline Distribution of BGC Units in the LSAs Table 5.4.5-6: Baseline Distribution of Ecosystems in the LSAs Table 5.4.5-7: Baseline Distribution of BGC Units in the RSA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
702	B	5.4.5.2	100	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.5.2, Subsection 5.4.5.2.8	5.4.5-17	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
703	B	5.4.5.2	100	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.5.2, Subsection 5.4.5.2.9	5.4.5-17	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
704	B	5.4.5.3	100	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.5.3	5.4.5-18	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.4.5-8: Potential Environmental Effects from the Project on Ecosystem Composition by Project Phase and Component Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
705	B	5.4.5.3	100	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.5.3, Subsection 5.4.5.3.1	5.4.5-18	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
706	B	5.4.5.3	100	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.5.3	5.4.5-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.5-20: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Ecosystem Distribution during Mine Site Development Table 5.4.5-26: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Riparian Areas of Mine Site Development Table 5.4.5-32: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Old-Growth Forests during Mine Site Development Table 5.4.5-33: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce

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											Potential Effects on Sparsely Vegetated Ecosystems during Mine Site Development Table 5.4.5-39: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Traditional Use Plant Habitat during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
707	B	5.4.5.3	100	Potential Effects of the Proposed Project and Proposed Mitigation	The approach for the effects assessment considers overlapping the proposed Project footprint on the existing vegetation cover described in Section 5.1.3.2. The approach includes comparing the existing condition or Baseline Case to the Project Case (i.e., baseline with the addition of the proposed Project). The effects on vegetation VCs from each Project phase are evaluated in terms of magnitude, geographic extent, duration, frequency, reversibility, ecological context, direction, certainty, and level of confidence. Significance of identified residual effects will be determined.	4	B	5.4.5.3, Subsection 5.4.5.3.4	5.4.5-22	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
708	B	5.4.5.3	100	Potential Effects of the Proposed Project and Proposed Mitigation	Ecosystem composition refers to the diversity of ecosystems present within the proposed Project area as well as sensitive ecosystems (sparsely vegetated, old growth and riparian). Ecosystems are classified using the provincial BGC classification system and mapped as part of the vegetation baseline program. To determine the potential effects of the proposed Project on ecosystem composition, the proposed Project footprint is superimposed over the terrestrial ecosystem map. The change in ecosystem composition is assessed and compared to the proposed Project development to determine the change in hectares pre– and post– reclamation for each ecosystem unit within the LSA and RSA.	4	B	5.4.5.3, Subsection 5.4.5.3.4	5.4.5-22	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.5-9: Ecosystem Distribution: Mine Site Effects on Ecosystem Loss in the LSA Table 5.4.5-10: Ecosystem Distribution: Mine Site Access Road Effects on Ecosystem Loss in the LSA Table 5.4.5-11: Ecosystem Distribution: Freshwater Supply System Effects on Ecosystem Loss in the LSA Table 5.4.5-12: Ecosystem Distribution: Airstrip Effects on Ecosystem Loss in the LSA Table 5.4.5-13: Ecosystem Distribution: Transmission Line Effects on Ecosystem Loss in the LSA Table 5.4.5-14: Ecosystem Distribution: Transmission Line - Mills Ranch Alignment Effects on Ecosystem Loss in the LSA Table 5.4.5-15: Ecosystem Distribution: Transmission line – Stellako Alignment Effects on Ecosystem Loss in the LSA Table 5.4.5-16: Ecosystem Distribution: Kluskus FSR Effects on Ecosystem Loss in the LSA Table 5.4.5-17: Ecosystem Distribution: Combined Project Components Effects on Ecosystem Loss in the LSA Table 5.4.5-18: Ecosystem Distribution: Mine Site Effects of Dust Deposition in the LSA Table 5.4.5-19: Ecosystem Distribution: Linear Project Component Effects of Dust Deposition in the LSA Table 5.4.5-21: Riparian: Mine Site Effects on Ecosystem Loss in the LSA Table 5.4.5-22: Riparian Ecosystems: Linear Component Effects on Ecosystem Loss in the LSA Table 5.4.5-23: Riparian Ecosystems: Combined Project Component Effects on Ecosystem Loss in the LSA Table 5.4.5-24: Riparian Ecosystems: Mine Site

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											Effects of Dust Deposition in the LSA Table 5.4.5-25: Riparian Ecosystems: Linear Project Component Effect on Dust Deposition in the LSA Table 5.4.5-27: Old-Growth Forest: Mine Site Effects on Ecosystem Loss in the LSA Table 5.4.5-28: Old-Growth Forest: Linear Component Effects on Ecosystem Loss in the LSA Table 5.4.5-29: Old-Growth Forest: Combined Project Components Effects on Ecosystem Loss in the LSA Table 5.4.5-30: Old-Growth Forest: Mine Site Effects of Dust Deposition in the LSA Table 5.4.5-31: Old-Growth Forest: Linear Component Effects of Dust Deposition in the LSA Table 5.4.5-34: Traditional Use Plant Habitat: Mine Site Effects on Ecosystem Loss in the LSA Table 5.4.5-35: Traditional Use Plant Habitat: Linear Component Effects on Ecosystem Loss in the LSA Table 5.4.5-36: Traditional Use Plant Habitat: Combined Component Effects on Ecosystem Loss in the LSA Table 5.4.5-37: Traditional Use Plant Habitat: Mine Site Effects on Dust Distribution in the LSA Table 5.4.5-38: Traditional Use Plant Habitat: Linear Component Effects on Dust Distribution in the LSA Figure 5.4.5-2: Ecosystem Distribution in Relation to Dust and Nitrogen Deposition Figure 5.4.5-3: Riparian in Relation to Dust and Nitrogen Deposition Figure 5.4.5-4: Old Growth Forest in Relation to Dust and Nitrogen Deposition Figure 5.4.5-5: Sparsely Vegetated Ecosystems in Relation to Dust and Nitrogen Deposition Figure 5.4.5-6: Traditional Plant Use Habitat in Relation to Dust and Nitrogen Deposition Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
709	B	5.4.5.4	101	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.5.4	5.4.5-98	Residual Effects and their Significance	Table 5.4.5-40: Summary of Potential Project Residual Effects to be Carried Forward into the Assessment of Ecosystem Composition Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
710	B	5.4.5.4	101	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.5.4, Subsection 5.4.5.4.1	5.4.5-99	Residual Effects and their Significance	Table 5.4.5-41: Residual Effects Assessment for Ecosystem Loss (Ecosystem Distribution, Riparian Areas, Old-Growth Forests, and Traditional Use Plant Habitat) Table 5.4.5-42: Nitrogen Deposition – Ecosystem Distribution, Riparian Areas and Traditional Use Plant Habitat Table 5.4.5-43: Spread of Invasive Plants –

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											Ecosystem Distribution, Riparian Areas and Traditional Use Plant Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
711	B	5.4.5.5	101	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.5.5	5.4.5-101	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
712	B	5.4.5.5	101	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.5.5	5.4.5-101	Cumulative Effects	Table 5.4.5-44: Project-Related Residual Effects – Rationale for Carrying Forward into the CEA Table 5.4.5-45: Spatial Overlap by Project/Activity Table 5.4.5-46: Spatial Overlap by BGC Unit Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
713	B	5.4.5.5	101	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.5.4 above.	4	B	5.4.5.5, Subsection 5.4.5.5.2	5.4.5-104	Cumulative Effects	Table 5.4.5-47: Residual Cumulative Effects Assessment on Ecosystem Composition Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
714	B	5.4.5.6	101	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.5.6	5.4.5-105	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
715	B	5.4.5.7	101	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.5.7	5.4.5-105	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
716	B	5.4.6	101	Plant Species and Ecosystems at Risk							
717	B	5.4.6.1	101	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.6.1	5.4.6-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
718	B	5.4.6.2	102	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.6.2	5.4.6-2	Valued Component Baseline	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.4.6-1: List of Potentially Occurring Plant Species-At-Risk in the Project Area and their Habitat Requirements Table 5.4.6-2: Baseline Ecosystems-at-Risk in the LSA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
719	B	5.4.6.2	102	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.6.2, Subsection 5.4.6.2.7	5.4.6-8	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
720	B	5.4.6.2	102	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.6.2, Subsection 5.4.6.2.8	5.4.6-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
721	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.6.3	5.4.6-9	Potential Effects of the Proposed Project, and Proposed Mitigation	Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.4.6-3: Potential Environmental Effects from the Project on Plant Species and Ecosystems at Risk by Project Phase and Component

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
722	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.6.3, Subsection 5.4.6.3.1	5.4.6-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
723	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.6.3, Subsection 5.4.6.3.7.6, Subsection 5.4.6.3.8.5 Subsection 5.4.6.3.9.5	5.4.6-9 5.4.6-21 5.4.6-38 5.4.6-47	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.6-4: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Whitebark Pine during Mine Site Development Table 5.4.6-11: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Potential Plant Species-at-Risk Habitat during Mine Site Development Table 5.4.6-14: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Ecosystems at Risk during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
724	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	The approach included for the effects assessment considers comparing the existing condition or Baseline Case to the Project Case (i.e., baseline with the addition of the proposed Project) overlapping the Project footprint on the existing vegetation cover described in Section 5.1.3.2.	4	B	5.4.6.3, Subsection 5.4.6.3.4	5.4.6-13	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.6-1: Whitebark Pine Distribution and Potential Effects Table 5.4.6-5: Ecosystems with Ability to Support One or More Potentially Occurring Plant Species at-Risk – All ecosystems are ranked equal Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
725	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment of potential effects for the plant species at risk is based on baseline data collection and assessment. Plant species at risk are defined to include: • Vascular and non-vascular species listed by the BC CDC, which are typically ranked as Red- or Blue-listed (BC CDC, 2012); and	4	B	5.4.6.2 Subsection 5.4.6.2.6	5.4.6-4	Valued Component Baseline	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
726	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	• Species listed as Endangered, Threatened, or Special Concern under the federal SARA and COSEWIC.	4	B	5.4.6.2 Subsection 5.4.6.2.6.2	5.4.6-5	Valued Component Baseline	Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.4.6-1: List of Potentially Occurring Plant Species-At-Risk in the Project Area and their Habitat Requirements Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
727	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	To determine the potential effects on plant species at risk, the location of plant species at risk, if any, is mapped and superimposed with the project activities and development. In addition, ecosystem units are ranked (e.g., high, medium and low) to determine the ability to support potentially occurring plant species at risk. The area (ha) of ranked ecosystems between the Baseline Case and Project Case is compared including pre-reclamation and post-reclamation.	4	B	5.4.6.3, Subsection 5.4.6.3.8	5.4.6-29	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.6-5: Ecosystems with Ability to Support One or More Potentially Occurring Plant Species at-Risk – All ecosystems are ranked equal Table 5.4.6-6: Potential Plant Species-at-Risk Habitat: Mine Site Effects on Ecosystem Loss in the LSA Table 5.4.6-7: Potential Species-at-Risk Habitat: Linear Component Effects on Ecosystem Loss in the LSA Table 5.4.6-8: Potential Species-At-Risk Habitat: Combined Components Effects on Ecosystem Loss in the LSA Table 5.4.6-9: Potential Species-at-Risk Habitat: Mine Site Effects of Dust Deposition in the LSA

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											Table 5.4.6-10: Potential Species-at-Risk Habitat: Linear Component Effects of Dust Deposition in the LSA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
728	B	5.4.6.3	102	Potential Effects of the Proposed Project and Proposed Mitigation	Ecosystems at risk are defined as those communities listed by the BC CDC, which are typically ranked as Red or Blue-listed (BC CDC, 2012). The ecosystem map is used to determine the effects of ecosystems at risk and is based on site-specific baseline data, which identifies their specific location, distribution and abundance within the proposed Project area. The proposed Project footprint is applied to the ecosystem map to determine the effect on each ecosystem at risk and the total area affected for the ecosystem at risk.	4	B	5.4.6.3, Subsection 5.4.6.3.9	5.4.6-43	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.6-12: Ecosystems-At-Risk: Linear Component Effects on Ecosystem Loss in the LSA Table 5.4.6-13: Ecosystems-At Risk: Linear Component Effects of Dust in the LSA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
729	B	5.4.6.4	103	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.6.4	5.4.6-49	Residual Effects and their Significance	Table 5.4.6-15: Summary of Potential Project Effects to be Carried Forward into the Assessment of Plant Species and Ecosystems at Risk Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
730	B	5.4.6.4	103	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.6.4, Subsection 5.4.6.4.1	5.4.6-49	Residual Effects and their Significance	Table 5.4.6-16: Potential Residual Effects Significance of Ecosystem Loss on Plant Species and Ecosystems at Risk VC Table 5.4.6-17: Potential Residual Effects Significance of Nitrogen Deposition on Whitebark Pine Table 5.4.6-18: Potential Residual Effects Significance of Whitebark Pine Regeneration on Whitebark Pine Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
731	B	5.4.6.5	103	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.6.5	5.4.6-52	Cumulative Effects	Table 5.4.6-19: Summary of the Significance, Rationale, and Cumulative Effect of Historical, Current, and Future Land Use Effects Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
732	B	5.4.6.5	103	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.6.5	5.4.6-52	Cumulative Effects	Table 5.4.6-20: Spatial Overlap by Project/Activity: Potential Plant Species-at-Risk Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
733	B	5.4.6.5	103	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.6.4 above.	4	B	5.4.6.5, Subsection 5.4.6.5.3	5.4.6-55	Cumulative Effects	Table 5.4.6-21: Significance of Potential Residual Cumulative Effects on Plant Species and Ecosystems at Risk Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
734	B	5.4.6.6	103	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.6.6	5.4.6-56	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
735	B	5.4.6.7	103	Conclusion	This subsection will provide a conclusion regarding the residual effects and their significance.	4	B	5.4.6.7	5.4.6-56	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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736	B	5.4.7	103	Amphibians	The representative species or indicator for amphibians is the western toad (*Anaxyrus boreas*).	4	B	5.4.7	5.4.7-1	Amphibians	
737	B	5.4.7.1	103	Introduction	This subsection will: • Describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.7.1	5.4.7-1	Introduction	Table 5.4.7-1: Assessment and Permitting Regulations Regarding Amphibians Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
738	B	5.4.7.2	104	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.7.2	5.4.7-2	Valued Component Baseline	Appendix 5.4.7A: Western Toad Species Account (AMEC E&I) (App Volume 16) Table 5.4.7-2: Project Component Footprint Areas Figure 5.4.7-1 Study Area Boundaries for Amphibians and Associated Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
739	B	5.4.7.2	104	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.7.2, Subsection 5.4.7.2.1	5.4.7-3	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
740	B	5.4.7.2	104	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.7.2, Subsection 5.4.7.2.2	5.4.7-4	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
741	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.7.3	5.4.7-4	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.7-4: Potential Interaction of Project Activities with Amphibians Table 5.4.7-5: Categories of Potential Environmental Effects / Issues for Amphibians Table 5.4.7-6: Potential Key and Moderate Interactions with Categories of Potential Environmental Effects / Issues for Amphibians Table 5.4.7-7: Temporal Boundaries Table 5.4.7-8: Overview of Potential Project Effects on Amphibians Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
742	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Use water quality effects assessment to inform the EA whether effects are possible on amphibians and commit to an EEM program to validate or refute effects predictions;	4	B	5.4.7.3, Subsection 5.4.7.3.5	5.4.7-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
743	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Commit to adaptive management practices to mitigate significant residual effects observed through the EEM program that can reasonably be ascribed to mine activities;	4	B	5.4.7.3, Subsection 5.4.7.3.5	5.4.7-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
744	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.7.3, Subsection 5.4.7.3.5	5.4.7-9	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.7-3: Listed Past, Present and Future Projects/Activities Potentially Interacting with Amphibians Table 5.4.7-4: Potential Interaction of Project Activities with Amphibians Table 5.4.7-8: Overview of Potential Project Effects on Amphibians Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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745	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.7.3, Subsection 5.4.7.3.8	5.4.7-28	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.7-10: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Amphibians during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
746	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species of amphibians;	4	B	5.4.7.3, Subsection 5.4.7.3.7.1	5.4.7-19	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.7-9: Potential Western Toad Suitability Living Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.7-2: Amphibian Habitat Rating for Living Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
747	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Feeding, or breeding habitats;	4	B	5.4.7.3, Subsection 5.4.7.3.7.1	5.4.7-19	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.7-2: Amphibian Habitat Rating for Living Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
748	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss;	4	B	5.4.7.3, Subsection 5.4.7.3.7.1	5.4.7-19	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.7-2: Amphibian Habitat Rating for Living Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
749	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements;	4	B	5.4.7.3, Subsection 5.4.7.3.7.3	5.4.7-27	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
750	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Disturbance of daily or seasonal wildlife movements (e.g., dispersal corridors), which would include potential hazards and conflicts associated with mine access and travel corridors of terrestrial wildlife;	4	B	5.4.7.3, Subsection 5.4.7.3.7.3	5.4.7-27	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
751	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity;	4	B	5.4.7.3, Subsection 5.4.7.3.7	5.4.7-19	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.7-9: Potential Western Toad Suitability Living Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.7-2: Western Toad Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
752	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species of amphibians that are Rare, Vulnerable, Endangered, Threatened, or of Special Concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance; and	4	B	5.4.7.3	5.4.7-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
753	B	5.4.7.3	104	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities during each stage of the proposed Project could potentially interact with the amphibian fauna. Habitat loss, features that act as attractants to the amphibians, potential mortality, changes in habitat availability, and disruption of movement are the predicted key issues of the proposed Project related to amphibians in the proposed Project area.	4	B	5.4.7.3, Subsection 5.4.7.3.5	5.4.7-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
754	B	5.4.7.4	105	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.7.4	5.4.7-33	Residual Effects and their Significance	Table 5.4.7-11: Summary of Categories of Potential Environmental Effects / Issues and Mitigation Measures – Amphibians Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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755	B	5.4.7.4	105	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.7.4	5.4.7-33	Residual Effects and their Significance	Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.7-13: Threshold(s) for Determining Magnitude of Residual Amphibian Habitat and Population Effects in the RSA Table 5.4.7-14: Residual Effects Assessment Summary for Amphibians Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
756	B	5.4.7.5	105	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.7.5	5.4.7-41	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
757	B	5.4.7.5	105	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.7.5	5.4.7-38	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
758	B	5.4.7.5	105	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.7.4 above.	4	B	5.4.7.5	5.4.7-38	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
759	B	5.4.7.6	105	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.7.6	5.4.7-41	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
760	B	5.4.7.7	105	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.7.7	5.4.7-41	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
761	B	5.4.8	105	Water Birds	The representative species or indicators proposed for water birds are ring-necked duck (*Aythya collaris*) and yellow rail (*Coturnicops noveboracensis).* The assessment described in the subsections below will be conducted for these species.	4	B	5.4.8	5.4.8-1	Water Birds	
762	B	5.4.8.1	106	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	4	B	5.4.8.1	5.4.8-1	Introduction	Appendix 5.4.8A: Ring-necked Duck Species Account (AMEC E&I) (App Volume 16) Appendix 5.4.8B: Yellow Rail Species Account (AMEC E&I) (App Volume 16) Table 5.4.8-1: Assessment and Permitting Regulations Regarding Water Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
763	B	5.4.8.2	106	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.8.2	5.4.8-3	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
764	B	5.4.8.2	106	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.8.2, Subsection 5.4.8.2.1	5.4.8-4	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
765	B	5.4.8.2	106	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.8.2, Subsection 5.4.8.2.2	5.4.8-4	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
766	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.8.3	5.4.8-5	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.8-2: Project Component Footprint Areas Figure 5.4.8-1: Wildlife Study Areas Table 5.4.8-3: Potential Interaction of the Project with Water Birds Table 5.4.8-4: Categories of Potential Environmental Effects / Issues for Water Birds

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767	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Use water quality effects assessment to inform the EA whether effects are possible on water birds and commit to an EEM program to validate or refute effects predictions;	4	B	5.4.8.3, Subsection 5.4.8.3.5	5.4.8-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
768	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Commit to adaptive management practices to mitigate significant residual effects observed through the EEM program that can reasonably be ascribed to mine activities;	4	B	5.4.8.3, Subsection 5.4.8.3.5	5.4.8-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
769	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.8.3, Subsection 5.4.8.3.5	5.4.8-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
770	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.8.3, Subsection 5.4.8.3.8	5.4.8-30	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.8-10: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Water Birds during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
771	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Aquatic and riparian habitat, including the quality and quantity of any lost habitat for relevant species of birds;	4	B	5.4.8.3, Subsection 5.4.8.3.7 Subsection 5.4.8.3.7.1	5.4.8-29	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.8C: Water Birds Ratings Table (App Volume 16) Table 5.4.8-8: Potential Moderate and High Rated Ring-Necked Duck Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.8-2: Ring-necked Duck Habitat Suitability Figure 5.4.8-3: Yellow Rail Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
772	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Feeding, nesting, or breeding habitats;	4	B	5.4.8.3, Subsection 5.4.8.3.7.1	5.4.8-29	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.8-8: Potential Moderate and High Rated Ring-Necked Duck Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.8-2: Ring-necked Duck Habitat Suitability Figure 5.4.8-3: Yellow Rail Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
773	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss;	4	B	5.4.8.3, Subsection 5.4.8.3.7 Subsection 5.4.8.3.7.1	5.4.8-29	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.8C: Water Birds Ratings Table (App Volume 16) Table 5.4.8-8: Potential Moderate and High Rated Ring-Necked Duck Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.8-2: Ring-necked Duck Habitat Suitability Figure 5.4.8-3: Yellow Rail Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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774	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species of birds that are Rare, Vulnerable, Endangered, Threatened, or of Special Concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as any migratory birds and species of international significance;	4	B	5.4.8.3	5.4.8-5	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
775	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.8.3, Subsection 5.4.8.3.7.2	5.4.8-30	Potential Effects of the Proposed Project and Proposed Mitigation	
776	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.8.3, Subsection 5.4.8.3.7	5.4.8-16	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.8-8: Potential Moderate and High Rated Ring-Necked Duck Habitat Area Affected within Footprints, LSAs, and RSA Table 5.4.8-9: Potential Moderate and High Rated Yellow Rail Habitat Area Affected within Footprints, LSAs, and RSA Figure 5.4.8-2: Ring-necked Duck Habitat Suitability Figure 5.4.8-3: Yellow Rail Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
777	B	5.4.8.3	106	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with water birds. Habitat alteration, noise disturbance (displacement), and potential mortality are the predicted key issues for water birds.	4	B	5.4.8.3	5.4.8-5	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
778	B	5.4.8.4	107	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.8.4	5.4.8-35	Residual Effects and their Significance	Table 5.4.8-11: Summary of Categories of Potential Environmental Effects / Issues and Mitigation Measures – Water Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
779	B	5.4.8.4	107	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.8.4	5.4.8-35	Residual Effects and their Significance	Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.8-13: Threshold(s) for Determining Significance of Residual Water Bird Habitat and Population Effects in the RSA Table 5.4.8-14: Residual Effects Assessment Summary for Water Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
780	B	5.4.8.5	107	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.8.5	5.4.8-43	Cumulative Effects	Table 5.4.8-15: Project Related Residual Effects; Rationale for Carrying forward into the CEA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
781	B	5.4.8.5	107	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.8.5	5.4.8-43	Cumulative Effects	Table 5.4.8-16: Key and Moderate Interactions between Water Bird Habitat Loss and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
782	B	5.4.8.5	107	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.8.4 above.	4	B	5.4.8.5, Subsection 5.4.8.5.2	5.4.8-45	Cumulative Effects	Table 5.4.8-17: Residual Cumulative Effects Assessment for Loss of Water Bird Habitat

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
783	B	5.4.8.6	107	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.8.6	5.4.8-46	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
784	B	5.4.8.7	107	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.8.7	5.4.8-46	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
785	B	5.4.9	107	Forest and Grassland Birds	The representative species or indicators proposed for forest and grassland birds are olive-sided flycatcher (*Contopus cooperi*) and Clark's nutcracker (*Nucifraga columbiana*) under songbirds, and red-tailed hawk (*Buteo jamaicensis*) under raptors. The assessment described in the subsections below will be conducted for these species.	4	B	5.4.9	5.4.9-1	Forest and Grassland Birds	
786	B	5.4.9.1	108	Introduction	This subsection will describe the approach and ...	4	B	5.4.9.1	5.4.9-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
787	B	5.4.9.1	108	Introduction	...applicable regulatory framework for the assessment of the VC.	4	B	5.4.9.1, Subsection 5.4.9.1.1	5.4.9-2	Introduction	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 5.4.9A: Olive-sided Flycatcher Species Account (AMEC E&I) (App Volume 16) Appendix 5.4.9B: Red-tailed Hawk Species Account (AMEC E&I) (App Volume 16) Appendix 5.4.9C: Clark's Nutcracker Species Account (AMEC E&I) (App Volume 16) Table 5.4.9-1: Regulatory Considerations Regarding Forest and Grassland Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
788	B	5.4.9.2	108	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.9.2	5.4.9-3	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
789	B	5.4.9.2	108	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.9.2, Subsection 5.4.9.2.1	5.4.9-4	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
790	B	5.4.9.2	108	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.9.2, Subsection 5.4.9.2.2	5.4.9-5	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
791	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.9.3	5.4.9-5	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.9-1: Study Area Boundaries for Forest and Grassland Birds and Associated Habitat Table 5.4.9-2: Project Component Footprint Areas Table 5.4.9-3: Potential Interaction of the Project with Forest and Grassland Birds Table 5.4.9-4: Categories of Assessment for Forest and Grassland Birds Table 5.4.9-5: Potential Interactions on Categories of Assessment for Forest and

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											Grassland Birds Table 5.4.9-6: Temporal Boundaries Table 5.4.9-7: Overview of Potential Project Effects on Forest and Grassland Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
792	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Commit to adaptive management practices to mitigate significant residual effects observed through the EEM program that can reasonably be ascribed to mine activities;	4	B	5.4.9.3, Subsection 5.4.9.3.8.1	5.4.9-29	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
793	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.9.3, Subsection 5.4.9.3.5	5.4.9-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
794	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.9.3, Subsection 5.4.9.3.8	5.4.9-28	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.9-10: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Forest and Grassland Birds during Mine Site Development Table 5.4.9-11: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Clark's Nutcracker during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
795	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species of birds; • Feeding, nesting, or breeding habitats;	4	B	5.4.9.3, Subsection 5.4.9.3.7.1	5.4.9-27	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.9D: Forest and Grassland Birds Ratings Table (App Volume 16) Table 5.4.9-8: Potential Forest and Grassland Birds (not including Clark's Nutcracker) Moderate and High Habitat Area Affected within Footprints, LSAs, and RSA Table 5.4.9-9: Potential Clark's Nutcracker Moderate and High Value Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.9-2: Terrestrial Birds Habitat Suitability Figure 5.4.9-3: Clark's Nutcracker Habitat Suitability Rating Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
796	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss;	4	B	5.4.9.3, Subsection 5.4.9.3.7.1	5.4.9-27	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.9-2: Terrestrial Birds Habitat Suitability Figure 5.4.9-3: Clark's Nutcracker Habitat Suitability Rating Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
797	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species of birds that are Rare, Vulnerable, Endangered, Threatened, or of Special Concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as any migratory birds and species of international significance;	4	B	5.4.9.3	5.4.9-5	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
798	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.9.3, Subsection 5.4.9.3.5	5.4.9-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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799	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.9.3, Subsection 5.4.9.3.7	5.4.9-23	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.9-2: Terrestrial Birds Habitat Suitability Table 5.4.9-8: Potential Forest and Grassland Birds (not including Clark's Nutcracker) Moderate and High Habitat Area Affected within Footprints, LSAs, and RSA Table 5.4.9-9: Potential Clark's Nutcracker Moderate and High Value Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.9-3: Clark's Nutcracker Habitat Suitability Rating Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
800	B	5.4.9.3	108	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with forest and grassland birds. Habitat alteration, noise disturbance (displacement), and potential mortality are the predicted key issues for forest and grassland birds.	4	B	5.4.9.3	5.4.9-5	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
801	B	5.4.9.4	109	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.9.4	5.4.9-34	Residual Effects and their Significance	Table 5.4.9-12: Summary of Categories of Assessment and Mitigation Measures – Forest and Grassland Birds Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
802	B	5.4.9.4	109	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.9.4	5.4.9-34	Residual Effects and their Significance	Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.9-14: Threshold(s) for Determining Significance of Residual Forest and Grassland Birds Habitat and Population Effects in the RSA Table 5.4.9-15: Residual Effects Assessment Summary for Forest and Grassland Birds (not including Clark's Nutcracker) Table 5.4.9-16: Residual Effects Assessment Summary for Clark's Nutcracker Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
803	B	5.4.9.5	109	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and • If applicable, assess cumulative effects and …	4	B	5.4.9.5	5.4.9-40	Cumulative Effects	Table 5.4.9-17: Project Related Residual Effects; Rationale for Carrying forward into the CEA for Forest and Grassland Birds (not including Clark's Nutcracker) Table 5.4.9-18: Project Related Residual Effects; Rationale for Carrying forward into the CEA for the Clark's Nutcracker Table 5.4.9-19: Key and Moderate Interactions between Forest and Grassland Birds (not including Clark's Nutcracker) and other Past, Present, and Future Projects/Activities Table 5.4.9-20: Key and Moderate Interactions between Clark's Nutcracker and other Past, Present, and Future Projects/Activities Table 5.4.9-21: Project Related Residual Effects – Rationale for Carrying Forward into the CEA Table 5.4.9-22: Assessment of Spatial and Temporal Overlap between the Project and Other

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											Projects and Human and Ecological Actions with Ecosystem Composition Table 5.4.9-23: Assessment of Spatial and Temporal Overlap between the Project and Natural Actions with Ecosystem Composition for Clark's Nutcracker Table 5.4.9-24: Spatial Overlap of RSA by Source of Overlap Table 5.4.9-25: Spatial Overlap by Moderately Rated Clark's Nutcracker Habitat Table 5.4.9-26: Spatial Overlap by Highly Rated Clark's Nutcracker Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
804	B	5.4.9.5	109	Cumulative Effects	... evaluate these effects using the same criteria and steps as noted in Section 5.4.9.4 above.	4	B	5.4.9.5, Subsection 5.4.9.5.4	5.4.9.5-47	Cumulative Effects	Table 5.4.9-27: Residual Cumulative Effects Assessment for Loss of Forest and Grassland Bird (not including Clark's Nutcracker) Habitat Table 5.4.9-28: Residual Cumulative Effects Assessment on Clark's Nutcracker Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
805	B	5.4.9.6	109	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.9.6	5.4.9-48	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
806	B	5.4.9.7	109	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.9.7	5.4.9-49	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
807	B	5.4.10	109	Moose (*Alces americanus*)	The assessment described in the subsections below will be conducted for this VC.	4	B	5.4.10	5.4.10-1	Moose	
808	B	5.4.10.1	109	Introduction	This subsection will describe the approach and ...	4	B	5.4.10.1	5.4.10-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
809	B	5.4.10.1	109	Introduction	...applicable regulatory framework for the assessment of the VC.	4	B	5.4.10.1, Subsection 5.4.10.1.1	5.4.10-2	Introduction	Table 5.4.10-1: Regulatory Considerations Regarding Moose Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
810	B	5.4.10.2	109	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.10.2	5.4.10-3	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
811	B	5.4.10.2	109	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.10.2, Subsection 5.4.10.2.1	5.4.10-4	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
812	B	5.4.10.2	109	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.10.2, Subsection 5.4.10.2.2	5.4.10-5	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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813	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.10.3, Subsection 5.4.10.3.5	5.4.10-10	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.10-1: Regional Study Area Boundaries for Moose and Associated Habitat Table 5.4.10-2: Project Component Footprint Areas Table 5.4.10-3: Potential Interaction of the Project Activities with Moose Table 5.4.10-4: Categories of Assessment for Moose Table 5.4.10-5: Potential Interactions among Project Activities and Moose by Categories of Assessment Table 5.4.10-6: Temporal Boundaries Table 5.4.10-7: Overview of Potential Project Effects on Moose Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
814	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.10.3, Subsection 5.4.10.3.5	5.4.10-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
815	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.10.3, Subsection 5.4.10.3.8	5.4.10-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.3.7A: Blackwater Gold Project Conceptual Wetlands Compensation Plan (AMEC E&I) (App Volume 16) Table 5.4.10-10: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Moose during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
816	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding, denning, or breeding habitats;	4	B	5.4.10.3, Subsection 5.4.10.3.7.1	5.4.10-18	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.10A: Moose Species Account (AMEC E&I) (App Volume 16) Appendix 5.4.10B: Moose Ratings Table (AMEC E&I) (App Volume 16) Table 5.4.10-8: Potential Moderate to High Valued Moose Winter Habitat Area Affected Within Footprints, LSA, and RSA Table 5.4.10-9: Potential Moderate to High Valued Moose Growing Habitat Area Affected within Footprints, LSA, and RSA Figure 5.4.10-2: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST) / Growing (G) Figure 5.4.10-3: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST) / Winter (W) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
817	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss;	4	B	5.4.10.3, Subsection 5.4.10.3.7.1	5.4.10-18	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.10-2: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST) / Growing (G) Figure 5.4.10-3: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST) / Winter (W)

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
818	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of moose;	4	B	5.4.10.3, Subsection 5.4.10.3.7.3	5.4.10-24	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
819	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.10.3, Subsection 5.4.10.3.7.2	5.4.10-24	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
820	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Increased access and indirect mortality of species through increased hunting opportunities or improved access for predator species;	4	B	5.4.10.3, Subsection 5.4.10.3.7.2	5.4.10-24	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
821	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Potential implications to predator - prey dynamics from changes in habitat suitability (e.g., potential changes in wolf numbers or distribution due to habitat and prey abundance changes);	4	B	5.4.10.3, Subsection 5.4.10.3.7.4	5.4.10-25	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
822	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.10.3, Subsection 5.4.10.3.7.1	5.4.10-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.10-8: Potential Moderate to High Valued Moose Winter Habitat Area Affected Within Footprints, LSA, and RSA Table 5.4.10-9: Potential Moderate to High Valued Moose Growing Habitat Area Affected within Footprints, LSA, and RSA Figure 5.4.10-2: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST) / Growing (G) Figure 5.4.10-3: Moose Habitat Suitability, Overview – Life Stage/Season: Security-Thermal (ST)/Winter (W) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
823	B	5.4.10.3	110	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with moose. Habitat loss, features that act as attractants to some species, potential mortality, changes in habitat availability, noise disturbance (displacement), and disruptions of movement are the predicted key issues of the proposed Project related to moose.	4	B	5.4.10.3	5.4.10-5	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.10-7: Overview of Potential Project Effects on Moose Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
824	B	5.4.10.4	111	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.10.4	5.4.10-31	Residual Effects and their Significance	Table 5.4.10-11: Summary of Categories of Assessment and Mitigation Measures – Moose Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
825	B	5.4.10.4	111	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.10.4	5.4.10-31	Residual Effects and their Significance	Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.10-13: Threshold(s) for Determining Magnitude of Residual Moose Habitat and Population Effects in the RSA Table 5.4.10-14: Residual Effects Assessment Summary for Moose

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
826	B	5.4.10.5	111	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.10.5	5.4.10-40	Cumulative Effects	Table 5.4.10-15: Project Related Residual Effects; Rationale for Carrying forward into the CEA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
827	B	5.4.10.5	111	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.10.5, Subsection 5.4.10.5.1	5.4.10-42	Cumulative Effects	Table 5.4.10-16: Interactions between Moose Residual Effects and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
828	B	5.4.10.5	111	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.10.4 above.	4	B	5.4.10.5, Subsection 5.4.10.5.2	5.4.10-43	Cumulative Effects	Table 5.4.10-17: Residual Cumulative Effects Assessment on Moose Mortality, Movement Patterns, and Population Dynamics Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
829	B	5.4.10.6	111	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.10.6	5.4.10-45	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
830	B	5.4.10.7	111	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.10.7	5.4.10-45	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
831	B	5.4.11	111	Caribou (*Rangifer tarandus*)		4	B	5.4.11	5.4.11-1	Caribou	
832	B	5.4.11.1	111	Introduction	This subsection will describe the approach and …	4	B	5.4.11.1	5.4.11-1	Introduction	Figure 5.4.11-1: Regional Study Area Boundaries and Subpopulation Boundaries for Caribou and Habitat Figure 5.4.11-2: Environment Canada (2014) Critical Habitat (and Type I Matrix Habitat) for Caribou Subpopulations Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
833	B	5.4.11.1	111	Introduction	...applicable regulatory framework for the assessment of the VC.	4	B	5.4.11.1, Subsection 5.4.11.1.1	5.4.11-7	Introduction	Table 5.4.11-1: Regulatory Considerations Regarding Caribou Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
834	B	5.4.11.2	111	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.11.2	5.4.11-8	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 5.4.11A: Caribou Species Account (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
835	B	5.4.11.2	111	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.11.2, Subsection 5.4.11.2.1	5.4.11-8	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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836	B	5.4.11.2	111	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.11.2, Subsection 5.4.11.2.2	5.4.11-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
837	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.11.3	5.4.11-10	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.11-2: Project Component Areas for Caribou Table 5.4.11-3: Potential Interaction of Project Activities with Caribou Table 5.4.11-4: Categories of Assessment for Caribou Table 5.4.11-5: Potential Key and Moderate Interactions with Categories of Assessment for Caribou Table 5.4.11-6: Temporal Boundaries Table 5.4.11-7: Overview of Potential Project Effects on Caribou Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
838	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.11.3, Subsection 5.4.11.3.1 Subsection 5.4.11.3.7.3 5.4.11.5, Subsection 5.4.11.5.1	5.4.11-11 5.4.11-35 5.4.11-59	Potential Effects of the Proposed Project and Proposed Mitigation Cumulative Effects	Table 5.4.11-11: Density of Linear Features within the Project Area Table 5.4.11-18: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
839	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.11.3, Subsection 5.4.11.3.8	5.4.11-36	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.11-12: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Caribou during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
840	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding, calving, or breeding habitats;	4	B	5.4.11.3, Subsection 5.4.11.3.7.2	5.4.11-26	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.11B: Caribou Ratings Table (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
841	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of caribou;	4	B	5.4.11.3, Subsection 5.4.11.3.7.2	5.4.11-26	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
842	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species that are rare, vulnerable, endangered, threatened, or of special concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance;	4	B	5.4.11.3	5.4.11-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
843	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.11.3, Subsection 5.4.11.3.7.4	5.4.11-36	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
844	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Increased access and indirect mortality of species through increased hunting opportunities or improved access for predator species;	4	B	5.4.11.3, Subsection 5.4.11.3.7.4	5.4.11-36	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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845	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Potential implications to predator – prey dynamics from changes in habitat suitability (e.g., potential changes in wolf numbers or distribution due to habitat and prey abundance changes);	4	B	5.4.11.3, Subsection 5.4.11.3.7.3	5.4.11-35	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
846	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.11.3, Subsection 5.4.11.3.7.1	5.4.11-26	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.11-8: Potential Caribou Spring Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.11-9: Potential Caribou Summer/Fall Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.11-10: Potential Caribou Winter Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.11-3: Caribou Habitat Suitability, Overview Spring Figure 5.4.11-4: Caribou Habitat Suitability, Overview Summer – Fall Figure 5.4.11-5: Caribou Habitat Suitability, Overview Winter Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
847	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with caribou. Habitat loss, features that act as attractants to some species, potential mortality, changes in habitat availability, noise disturbance (displacement), and disruptions of movement are the predicted key issues of the proposed Project related to caribou.	4	B	5.4.11.3	5.4.11-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
848	B	5.4.11.3	112	Potential Effects of the Proposed Project and Proposed Mitigation	The Proponent is working with the nearby First Nations and the Proposed Southern Mountain Caribou Recovery Plan, and the Province to understand and protect caribou and their habitat. The Proponent is actively participating and supporting caribou and wolf related studies on a regional basis, involving the Tweedsmuir Itcha - Ilgachuz metapopulation. In its Application, the Proponent will describe and document how knowledge and practices learned from these regional initiatives will be incorporated holistically into mine planning and environmental management plans (EMPs) for the proposed Project to address caribou metapopoulation concerns related to the proposed Project. The Application will also describe any long term plans and/or commitments that the Proponent has or intends to make to continue to actively participate in collaborative regional initiatives with local First Nations and Regulators to better understand and protect the caribou herds through all phases of its proposed Project.	4	B	5.4.11.3	5.4.11-10	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
849	B	5.4.11.4	113	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.11.4	5.4.11-41	Residual Effects and their Significance	Table 5.4.11-13: Summary of Category of Assessment and Mitigation Measures – Caribou Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
850	B	5.4.11.4	113	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and	4	B	5.4.11.4, Subsection 5.4.11.4.1	5.4.11-42	Residual Effects and their Significance	Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.11-15: Threshold(s) for Determining Magnitude of Residual Caribou Habitat and Population Effects in the RSA

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					• Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.						Table 5.4.11-16: Residual Effects Assessment Summary for Caribou Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
851	B	5.4.11.5	113	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and	4	B	5.4.11.5	5.4.11-51	Cumulative Effects	Appendix 5.4.11C: A Preliminary Assessment of the Mountain Pine Beetle Impact on Caribou Habitat Supply and Spatial Distribution for the Tweedsmuir-Entiako-Itcha-Ilgachuz Caribou Metapopulation (Encompass Strategic Resources) (App Volume 16) Figure 5.4.11-6: Cumulative Effects: Caribou Forest Cutblocks Figure 5.4.11-7: Cumulative Effects: Caribou Road Features Figure 5.4.11-8: Cumulative Effects: Caribou Mining, Forestry and Infrastructure Figure 5.4.11-9: Cumulative Effects: Caribou Herd Boundary Mtn. Pine Beetle – Severity of Attack Figure 5.4.11-10: Estimated Non-Pine Conifer Stands After Mountain Pine Beetle Impacts Figure 5.4.11-11: Cumulative Effects: Caribou Herd Boundary Mtn. Pine Beetle – Severity of Attack Table 5.4.11-17: Rationale for Carrying Residual Effects Forward for Caribou Table 5.4.11-18: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Table 5.4.11-19: Key and Moderate Interactions between Caribou Residual Effects and other Past, Present, and Future Projects/Activities Table 5.4.11-22: Spatial Overlap of Caribou RSA by Source of Habitat Loss Table 5.4.11-23: Cumulative Effects – Spatial Overlap of Disturbance on Caribou Habitat by Rating Class in LSA and RSA Table 5.4.11-24: Cumulative Effects – Spatial Overlap of Disturbance with Caribou Spring Season Habitat Table 5.4.11-25: Cumulative Effects – Spatial Overlap of Disturbance with Caribou Summer/Fall Season Habitat Table 5.4.11-26: Cumulative Effects – Spatial Overlap of Disturbance with Caribou Winter Season Habitat Table 5.4.11-27: Summary of Potential Cumulative Effects from Fire and Mountain Pine Beetle Table 5.4.11-28: Habitat Supply Analysis (Hebert, 2014) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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852	B	5.4.11.5	113	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.11.4 above.	4	B	5.4.11.5, Subsection 5.4.11.5.2.1	5.4.11-70	Cumulative Effects	Table 5.4.11-20: Assessment of Spatial and Temporal Overlap between the Project and Other Projects and Human and Ecological Actions with Ecosystem Composition Table 5.4.11-21: Assessment of Spatial and Temporal Overlap between the Project and Interactions with Ecosystem Composition for Caribou Table 5.4.11-29: Post-Closure Residual Cumulative Effects Assessment on Caribou Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
853	B	5.4.11.6	113	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.11.6	5.4.11-71	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
854	B	5.4.11.7	113	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.11.7	5.4.11-71	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
855	B	5.4.12	114	Grizzly Bear (*Ursus arctos*)		4	B	5.4.12	5.4.12-1	Grizzly Bear	
856	B	5.4.12.1	114	Introduction	This subsection will describe the approach and ...	4	B	5.4.12.1	5.4.12-1	Introduction	Appendix 5.4.12A: Grizzly Bear Species Account (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
857	B	5.4.12.1	114	Introduction	... applicable regulatory framework for the assessment of the VC.	4	B	5.4.12.1, Subsection 5.4.12.1.1	5.4.12-2	Introduction	Table 5.4.12-1: Regulatory Considerations Regarding Grizzly Bear Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
858	B	5.4.12.2	114	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.12.2	5.4.12-3	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
859	B	5.4.12.2	114	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.12.2, Subsection 5.4.12.2.1	5.4.12-5	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
860	B	5.4.12.2	114	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.12.2, Subsection 5.4.12.2.2	5.4.12-5	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
861	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.12.3	5.4.12-6	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.12-1: Study Area Boundaries for Grizzly Bear and Associated Habitat Table 5.4.12-2: Project Component Footprint Areas Table 5.4.12-3: Potential Interaction of the Project Activities with Grizzly Bear Table 5.4.12-4: Categories of Assessment for Grizzly Bear Table 5.4.12-5: Potential Key and Moderate Interactions with Categories of Assessment for Grizzly Bear

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											Table 5.4.12-6: Temporal Boundaries Table 5.4.12-7: Overview of Potential Project Effects on Grizzly Bear Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
862	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.12.3, Subsection 5.4.12.3.5	5.4.12-11	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
863	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.12.3, Subsection 5.4.12.3.8	5.4.12-31	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.12-13: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Grizzly Bear during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
864	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding, denning, or breeding habitats;	4	B	5.4.12.3, Subsection 5.4.12.3.7.1	5.4.12-21	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.12B: Grizzly Bear Ratings Table (AMEC E&I) (App Volume 16) Figure 5.4.12-2: Grizzly Bear Habitat Rating for Spring Suitability Figure 5.4.12-3: Grizzly Bear Habitat Rating for Summer Suitability Figure 5.4.12-4: Grizzly Bear Habitat Rating for Late Summer / Fall Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
865	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss;	4	B	5.4.12.3, Subsection 5.4.12.3.7.1	5.4.12-21	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.12-2: Grizzly Bear Habitat Rating for Spring Suitability Figure 5.4.12-3: Grizzly Bear Habitat Rating for Summer Suitability Figure 5.4.12-4: Grizzly Bear Habitat Rating for Late Summer / Fall Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
866	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of grizzly bears;	4	B	5.4.12.3, Subsection 5.4.12.3.5	5.4.12-12	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
867	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species that are rare, vulnerable, endangered, threatened, or of special concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance;	4	B	5.4.12.3	5.4.12-6	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
868	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.12.3, Subsection 5.4.12.3.7.2	5.4.12-29	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.12-11: Baseline and Project-Related Linear Densities within the GBPUs Table 5.4.12-12: Additional Project-Related Roads within the GBPUs Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
869	B	5.4.12.3	114	Potential Effects of the Proposed Project and Proposed Mitigation	• Increased access and indirect mortality of species through increased hunting opportunities;	4	B	5.4.12.3, Subsection 5.4.12.3.7.2	5.4.12-29	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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870	B	5.4.12.3	115	Potential Effects of the Proposed Project and Proposed Mitigation	• Potential implications to predator-prey dynamics from changes in habitat suitability;	4	B	5.4.12.3, Subsection 5.4.12.3.5	5.4.12-12	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
871	B	5.4.12.3	115	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.12.3, Subsection 5.4.12.3.7	5.4.12-21	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.12-8: Potential Grizzly Bear Spring Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.12-9: Potential Grizzly Bear Summer Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.12-10 Potential Grizzly Bear Late Summer/Fall Suitability Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.12-2: Grizzly Bear Habitat Rating for Spring Suitability Figure 5.4.12-3: Grizzly Bear Habitat Rating for Summer Suitability Figure 5.4.12-4: Grizzly Bear Habitat Rating for Late Summer / Fall Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
872	B	5.4.12.3	115	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with grizzly bears. Habitat loss, features that act as attractants to some species, potential mortality, changes in habitat availability, noise disturbance (displacement), and disruptions of movement are the predicted key issues of the proposed Project related to grizzly bears.	4	B	5.4.12.3, Subsection 5.4.12.3.5	5.4.12-12	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
873	B	5.4.12.4	115	Residual Effects and their Significance	• Identify and describe any residual effects after mitigation;	4	B	5.4.12.4	5.4.12-35	Residual Effects and their Significance	Table 5.4.12-14: Summary of Categories of Assessment and Mitigation Measures – Grizzly Bear Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
874	B	5.4.12.4	115	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.12.4	5.4.12-35	Residual Effects and their Significance	Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.12-16: Threshold(s) for Determining Significance of Residual Grizzly Bear Habitat and Population Effects in the RSA Table 5.4.12-17: Residual Effects Assessment Summary for Grizzly Bear for Habitat Loss within the RSA and the Mortality Risk within the GBPUs Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
875	B	5.4.12.5	115	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and	4	B	5.4.12.5	5.4.12-43	Cumulative Effects	Figure 5.4.12-5: Cumulative Effects: Grizzly Bear Mining, Forestry, and Infrastructure Figure 5.4.12-6: Cumulative Effects: Caribou and Grizzly Bear Forest Cutblocks Figure 5.4.12-7: Cumulative Effects: Grizzly Bear Road Features Figure 5.4.1- 8: Cumulative Effects: Grizzly Bear Forest Fire and Mountain Pine Beetle Attack Severity Table 5.4.12-18: Project Related Residual

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											Effects; Rationale for Carrying forward into the CEA Table 5.4.12-19: Key and Moderate Interactions between Grizzly Bear Residual Effects and other Past, Present, and Future Projects/Activities Table 5.4.12-20: Spatial Overlap of Grizzly Bear RSA by Source of Habitat Loss Table 5.4.12-21: Cumulative Effects Spatial Overlap by Grizzly Bear Spring Season Habitat Table 5.4.12-22: Cumulative Effects Spatial Overlap by Grizzly Summer Season Habitat Table 5.4.12-23: Cumulative Effects Spatial Overlap by Grizzly Late Summer / Fall Season Habitat Table 5.4.12-24: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
876	B	5.4.12.5	115	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.12.4 above.	4	B	5.4.12.5, Subsection 5.4.12.5.3	5.4.12-57	Cumulative Effects	Table 5.4.12-25: Assessment of Spatial and Temporal Overlap between the Project and Other Projects and Human and Ecological Actions with Ecosystem Composition Table 5.4.12-26: Post-Closure Residual Cumulative Effects Assessment on Grizzly Bear Mortality and Loss of Grizzly Bear Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
877	B	5.4.12.6	115	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.12.6	5.4.12-58	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
878	B	5.4.12.7	115	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.12.7	5.4.12-59	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
879	B	5.4.13	116	Furbearers	Marten (*Martes americana*) and Beaver (*Castor canadensis*) are the representative species under furbearers. The assessment described in the subsections below will be conducted for this species.	4	B	5.4.13	5.4.13-1	Furbearers	
880	B	5.4.13.1	116	Introduction	This subsection will describe the approach and ...	4	B	5.4.13.1	5.4.13-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
881	B	5.4.13.1	116	Introduction	… applicable regulatory framework for the assessment of the VC.	4	B	5.4.13.1, Subsection 5.4.13.1.1	5.4.13-1	Introduction	Table 5.4.13-1: Regulatory Considerations Regarding Furbearers Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
882	B	5.4.13.2	116	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.13.2	5.4.13-3	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
883	B	5.4.13.2	116	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.13.2, Subsection 5.4.13.2.1	5.4.13-3	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
884	B	5.4.13.2	116	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.13.2, Subsection 5.4.13.2.2	5.4.13-4	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
885	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.13.3	5.4.13-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.13A: Marten Species Account (AMEC E&I) (App Volume 16) Figure 5.4.13-1: Regional Study Area Boundaries for Furbearers and Associated Habitat Table 5.4.13-2: Project Component Footprint Areas Table 5.4.13-3: Potential Interaction of Project Activities with Furbearers Table 5.4.13-4: Categories of Potential Environmental Effects / Issues for Furbearers Table 5.4.13-5: Potential Key and Moderate Interactions with Categories of Potential Environmental Effects / Issues for Furbearers Table 5.4.13-6: Temporal Boundaries Table 5.4.13-7: Overview of Potential Project Effects on Beaver and Marten Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
886	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.13.3, Subsection 5.4.13.3.5	5.4.13-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
887	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.13.3, Subsection 5.4.13.3.8	5.4.13-36	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.13-11: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Furbearers during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
888	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding, denning, or breeding habitats;	4	B	5.4.13.3, Subsection 5.4.13.3.7.1	5.4.13-35	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.13B: Marten Ratings Table (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
889	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	• Any wetland habitat alteration or loss (particularly to address effects on beaver);	4	B	5.4.13.3, Subsection 5.4.13.3.7.1	5.4.13-35	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.13-2: Wildlife Habitat Rating Marten – LIG, Life Stage/Season: = Living (LI) / Growing (G) Figure 5.4.13-3: Wildlife Habitat Rating Marten - LIW , Life Stage/Season: = Living (LI) / Winter (W) Figure 5.4.13-4: Wildlife Habitat Rating Beaver Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
890	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of terrestrial wildlife;	4	B	5.4.13.3	5.4.13-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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891	B	5.4.13.3	116	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species that are rare, vulnerable, endangered, threatened, or of special concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance;	4	B	5.4.13.3	5.4.13-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
892	B	5.4.13.3	117	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.13.3, Subsection 5.4.13.3.7.2	5.4.13-36	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
893	B	5.4.13.3	117	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.13.3, Subsection 5.4.13.3.7, Subsection 5.4.13.3.7.1	5.4.13-16 5.4.13-35	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.13A: Marten Species Account (AMEC E&I) (App Volume 16) Table 5.4.13-8: Potential Marten Growing Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.13-9: Potential Marten Winter Habitat Area Affected Within Footprints, LSAs, and RSA Table 5.4.13-10: Potential Beaver Growing Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.13-2: Wildlife Habitat Rating Marten – LIG, Life Stage/Season: = Living (LI) / Growing (G) Figure 5.4.13-3: Wildlife Habitat Rating Marten - LIW , Life Stage/Season: = Living (LI) / Winter (W) Figure 5.4.13-4: Wildlife Habitat Rating Beaver Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
894	B	5.4.13.3	117	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with furbearers. Habitat loss, features that act as attractants to some species, potential mortality, changes in habitat availability, noise disturbance (displacement), and disruptions of movement are the predicted key issues of the proposed Project related to furbearers.	4	B	5.4.13.3, Subsection 5.4.13.3.5	5.4.13-9	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
895	B	5.4.13.4	117	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.13.4	5.4.13-41	Residual Effects and their Significance	Table 5.4.13-12: Summary of Categories of Potential Environmental Effects/Issues and Mitigation Measures – Marten Table 5.4.13-13: Summary of Categories of Potential Environmental Effects/Issues and Mitigation Measures – Beaver Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
896	B	5.4.13.4	117	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.13.4	5.4.13-41	Residual Effects and their Significance	Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.13-15: Threshold(s) for Determining Significance of Residual Furbearer Habitat, Mortality, and Health in the RSA Table 5.4.13-16: Residual Effects Assessment Summary for Furbearers (Except Beaver) Table 5.4.13-17: Residual Effects Assessment Summary for Beaver Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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897	B	5.4.13.5	117	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and	4	B	5.4.13.5	5.4.13.51	Cumulative Effects	Table 5.4.13-18: Project Related Residual Effects; Rationale for Carrying forward into the CEA Table 5.4.13-19: Key and Moderate Interactions between Furbearers and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
898	B	5.4.13.5	117	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.13.4 above.	4	B	5.4.13.5, Subsection 5.4.13.5.2	5.4.13.54	Cumulative Effects	Table 5.4.13-20: Residual Cumulative Effects Assessment for Loss of Furbearer Habitat Table 5.4.13-21: Residual Cumulative Effects Assessment for Beaver Mortality Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
899	B	5.4.13.6	117	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.13.6	5.4.13-55	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
900	B	5.4.13.7	117	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.13.7	5.4.13-55	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
901	B	5.4.14	118	Bats	Little brown myotis (*Myotis lucifugus*) will be the representative species for bats. The assessment described in the subsections below will be conducted for bats.	4	B	5.4.14	5.4.14-1	Bats	
902	B	5.4.14.1	118	Introduction	This subsection will describe the approach and ...	4	B	5.4.14.1	5.4.14-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
903	B	5.4.14.1	118	Introduction	...applicable regulatory framework for the assessment of the VC.	4	B	5.4.14.1, Subsection 5.4.14.1.1	5.4.14-1	Introduction	Table 5.4.14-1: Regulatory Considerations Regarding Bats Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
904	B	5.4.14.2	118	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.14.2	5.4.14-2	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
905	B	5.4.14.2	118	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.14.2, Subsection 5.4.14.2.1	5.4.14-3	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
906	B	5.4.14.2	118	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.14.2, Subsection 5.4.14.2.2	5.4.14-3	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
907	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.14.3	5.4.14-4	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.14-1: Regional Study Area Boundaries for Bats and Associated Habitat Table 5.4.14-2: Project Component Footprint Areas Table 5.4.14-3: Potential Interaction of Project Activities with Bats Table 5.4.14-4: Categories of Assessment for Bats

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											Table 5.4.14-5: Potential Interactions with Categories of Assessment for Bats Table 5.4.14-6: Temporal Boundaries Table 5.4.14-7: Overview of Potential Project Effects on Bats Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
908	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.14.3, Subsection 5.4.14.3.5	5.4.14-8	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
909	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.14.3, Subsection 5.4.14.3.8	5.4.13-23	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.14-9: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Bats during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
910	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding, hibernation, or breeding habitats; • Any wetland habitat alteration or loss;	4	B	5.4.14.3, Subsection 5.4.14.3.7.1 Subsection 5.4.14.3.5	5.4.14-17 5.4.14-8	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.4.14B: Little Brown Myotis Ratings Table (AMEC E&I) (App Volume 16) Figure 5.4.14-2: Little Brown Myotis Habitat Suitability Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
911	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of bats;	4	B	5.4.14.3, Subsection 5.4.14.3.5	5.4.14-8	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
912	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species that are rare, vulnerable, endangered, threatened, or of special concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance;	4	B	5.4.14.3	5.4.14-4	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
913	B	5.4.14.3	118	Potential Effects of the Proposed Project and Proposed Mitigation	• Direct and indirect wildlife mortality from the mine operations and traffic;	4	B	5.4.13.3, Subsection 5.4.14.3.7.1.1	5.4.13-23	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
914	B	5.4.14.3	119	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.14.3, Subsection 5.4.14.3.7.1	5.4.14-17	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.14-8: Moderate and High Valued Bat Living Habitat Area Affected Within Footprints, LSAs, and RSA Figure 5.4.14-2: Little Brown Myotis Habitat Suitability Appendix 5.4.14A: Little Brown Myotis Species Account (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
915	B	5.4.14.3	119	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with bats. Habitat loss, features that act as attractants to some species, potential mortality, changes in habitat availability, noise disturbance (displacement), and disruptions of	4	B	5.4.14.3, Subsection 5.4.14.3.7.1.1	5.4.13-17	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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					movement are the predicted key issues of the proposed Project related to bats.						
916	B	5.4.14.4	119	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.14.4	5.4.14-27	Residual Effects and their Significance	Table 5.4.14-10: Summary of Categories of Assessment and Mitigation Measures – Bats Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
917	B	5.4.14.4	119	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.14.4	5.4.14-27	Residual Effects and their Significance	Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.14-12: Threshold(s) for Determining Significance of Residual Bat Effects Table 5.4.14-13: Residual Effects Assessment Summary for Bats Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
918	B	5.4.14.5	119	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	4	B	5.4.14.5	5.4.14-34	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
919	B	5.4.14.5	119	Cumulative Effects	• Assess potential cumulative effects; and	4	B	5.4.14.5	5.4.14-34	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
920	B	5.4.14.5	119	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.14.4 above.	4	B	5.4.14.5	5.4.14-34	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
921	B	5.4.14.6	119	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.14.6	5.4.14-34	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
922	B	5.4.14.7	119	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.14.7	5.4.14-34	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
923	B	5.4.15	120	Invertebrates	The representative species or indicators proposed for invertebrates are Jutta Arctic (*Oeneis jutta*) and American emerald (*Cordulia shurtleffii*). The assessment described in the subsections below will be conducted for each species.	4	B	5.4.15	5.4.15-1	Invertebrates	
924	B	5.4.15.1	120	Introduction	This subsection will describe the approach and ...	4	B	5.4.15.1	5.4.15-1	Introduction	Appendix 5.4.15A: Jutta Arctic Species Account (AMEC E&I) (Volume 16) Appendix 5.4.15B: American Emerald Species Account (AMEC E&I) (App Volume 16) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
925	B	5.4.15.1	120	Introduction	… applicable regulatory framework for the assessment of the VC.	4	B	5.4.15.1, Subsection 5.4.15.1.1	5.4.15-1	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
926	B	5.4.15.2	120	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	4	B	5.4.15.2	5.4.15-1	Valued Component Baseline	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
927	B	5.4.15.2	120	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	4	B	5.4.15.2, Subsection 5.4.15.2.1	5.4.15-2	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
928	B	5.4.15.2	120	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	4	B	5.4.15.2, Subsection 5.4.15.2.2	5.4.15-2	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
929	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	4	B	5.4.15.3	5.4.15-3	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 5.4.15-1: Regional Study Area Boundaries for Invertebrates and Associated Habitat Table 5.4.15-1: Project Component Footprint Areas Table 5.4.15-2: Potential Interaction of the Project with Invertebrates Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-4: Project Interactions on Categories of Assessment for Invertebrates Table 5.4.15-5: Temporal Boundaries Table 5.4.15 6: Overview of Potential Project Effects on Invertebrates Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
930	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	4	B	5.4.15.3, Subsection 5.4.15.3.5	5.4.15-8	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
931	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	4	B	5.4.15.3, Subsection 5.4.15.3.10	5.4.15-22	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-8: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Invertebrates during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
932	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the following: • Terrestrial habitat, including the quality and quantity of any lost habitat for relevant species; • Feeding or breeding habitats; • Any wetland habitat alteration or loss;	4	B	5.4.15.3, Subsection 5.4.15.3.9.1	5.4.15-21	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-4: Project Interactions on Categories of Assessment for Invertebrates Table 5.4.15 6: Overview of Potential Project Effects on Invertebrates Figure 5.4.14-2: Wildlife Habitat Rating Invertebrates, Life Stage/Season: = Living (LI) / Growing (G) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
933	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	• Barriers to wildlife, including the roads developed as part of the mine and their potential effects on wildlife movements; • Disturbance of daily or seasonal wildlife movements (e.g., migration and home ranges), which would include potential hazards and conflicts associated with mine access and travel corridors of terrestrial wildlife;	4	B	5.4.15.3, Subsection 5.4.15.3.5	5.4.15-8	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-4: Project Interactions on Categories of Assessment for Invertebrates Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
934	B	5.4.15.3	120	Potential Effects of the Proposed Project and Proposed Mitigation	• Any species that are Rare, Vulnerable, Endangered, Threatened, or of Special Concern as listed under provincial Blue and Red lists, SARA, COSEWIC, as well as, any species of international significance;	4	B	5.4.15.3	5.4.15-3	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-4: Project Interactions on Categories of Assessment for Invertebrates

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											Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
935	B	5.4.15.3	121	Potential Effects of the Proposed Project and Proposed Mitigation	• Wildlife habitat is being rated for suitability as a surrogate for wildlife productivity; and	4	B	5.4.15.3, Subsection 5.4.15.3.9	5.4.15-15	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-7: Potential Invertebrate Habitat Area Affected Within Footprints, LSA, and RSA Figure 5.4.14-2: Wildlife Habitat Rating Invertebrates, Life Stage/Season: = Living (LI) / Growing (G) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
936	B	5.4.15.3	121	Potential Effects of the Proposed Project and Proposed Mitigation	• Implications of the proposed Project acting as an attractant for particular species. Activities occurring during each phase of the proposed Project could potentially interact with invertebrates. A change in habitat availability and potential mortality are the predicted key issues of the proposed Project related to invertebrates.	4	B	5.4.15.3, Subsection 5.4.15.3.5	5.4.15-8	Potential Effects of the Proposed Project and Proposed Mitigation	Table 5.4.15-3: Categories of Assessment for Invertebrates Table 5.4.15-4: Project Interactions on Categories of Assessment for Invertebrates Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
937	B	5.4.15.4	121	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	4	B	5.4.15.4	5.4.15-25	Residual Effects and their Significance	Table 5.4.15-9: Summary of Categories of Assessment and Mitigation Measures – Invertebrates Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
938	B	5.4.15.4	121	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	4	B	5.4.15.4, Subsection 5.4.15.4.1	5.4.15-26	Residual Effects and their Significance	Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 5.4.15-11: Threshold(s) for Determining Magnitude of Residual Invertebrate Habitat and Population Effects in the RSA Table 5.4.15-12: Residual Effects Assessment Summary for Invertebrates Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
939	B	5.4.15.5	121	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and	4	B	5.4.15.5	5.4.15-32	Cumulative Effects	Table 5.4.15-13: Project Related Residual Effects; Rationale for Carrying forward into the CEA Table 5.4.15-14: Key and Moderate Interactions between Invertebrates and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
940	B	5.4.15.5	121	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 5.4.15.4 above.	4	B	5.4.15.5, Subsection 5.4.15.5.2	5.4.15-34	Cumulative Effects	Table 5.4.15-15: Residual Cumulative Effects Assessment for Loss of Invertebrate Habitat Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
941	B	5.4.15.6	121	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	4	B	5.4.15.6	5.4.15-35	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
942	B	5.4.15.7	121	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	4	B	5.4.15.7	5.4.15-35	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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943	B	5.5	122	Summary of Assessment of Environmental Effects	This section of the Application will present the summary of the assessment of environmental effects in the format of Table 5.5-1.	4	B	5.5	5.5-1	Summary of Assessment of Environmental Effects	Table 5.5-1: Summary of Assessment of Potential Environmental Effects Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
944	**B**	**6**	**123**	**ASSESSMENT OF POTENTIAL ECONOMIC EFFECTS**	This section of the Application will present the assessment of economic effects. The assessment for each VC includes a description of the rationale and baseline information conducted to select the VC, discussion of potential effects of the proposed Project and proposed mitigation, and an analysis of residual effects significance. The VCs proposed for Economic Condition include provincial economy; regional and local employment and businesses and regional and local government finance. **Section 6.3** will present a summary of the economic effects assessment results.						
945	B	6.1	123	Economic Baseline	This section of the Application will present the economic baseline information for the LSA and RSA. The economic baseline will include the following information: • Provincial economic activity (Gross Domestic Product (GDP)) and revenues for recent years and applicable economic forecasts;	5	B	6.1, Subsection 6.1.1	6-1	Economic Baseline	Appendix 6.1A: Economic 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 6.1.1-1: Economic, Social and Human Health Study Areas
946	B	6.1	123	Economic Baseline	• Employment and unemployment conditions in the LSA and RSA using the most recent Canadian and provincial statistics for the various communities, regions and Indian Reserves (census subdivisions). Assessment of the extent to which the local and regional workforce has the capacity to address proposed Project demands in the context of other approved or potential major projects that may be competing for labour. Where possible, information will be provided for off-reserve and on-reserve Aboriginal groups;	5	B	6.1, Subsection 6.1.2	6-5	Economic Baseline	Table 6.1.1-1: Indian Reserves in the Socio-economic Local Study Area
947	B	6.1	123	Economic Baseline	• Regional economic diversity using available information from BC Stats, the province's central statistics agency;	5	B	6.1, Subsection 6.1.3	6-6	Economic Baseline	
948	B	6.1	123	Economic Baseline	• Business capacity in the LSA and RSA based on available information, focusing on the number and capacity of businesses that could supply the goods and services needed for proposed Project construction and operations;	5	B	6.1, Subsection 6.1.4	6-7	Economic Baseline	Table 6.1.4-1: Number of Regional Businesses by Industry, December 2012
949	B	6.1	123	Economic Baseline	• Average and median income and earnings for residents of the urban and rural communities and Indian Reserves in the LSA and RSA using the most recent Canadian and provincial information, including census information and BC taxation statistics;	5	B	6.1, Subsection 6.1.5	6-8	Economic Baseline	
950	B	6.1	123	Economic Baseline	• Description of the current educational qualifications of residents in the LSA and RSA; and	5	B	6.1, Subsection 6.1.6	6-9	Economic Baseline	
951	B	6.1	123	Economic Baseline	• Recent municipal government financial information from BC Stats to describe current revenues and operating costs, assessment base, and tax rates. Economic information is supplemented as part of consultation with local community and business representatives.	5	B	6.1, Subsection 6.1.8	6-10	Economic Baseline	
952	B	6.2	124	Economic Effects Assessment	This section of the Application will present the identification and selection of economic valued components following the methods described in Section 4.2. This section will also present the assessment of effects for the proposed valued components following the methods described in Section 4.3.	5	B	6.2, Subsection 6.2.1	6-11	Economic Effects Assessment	

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953	B	6.2.1	124	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for the Economic Condition.	5	B	6.2, Subsection 6.2.1	6-11	Identification and Selection of Valued Components	Table 6.2.1-1: Candidate Valued Component Rationale Table 6.2.1-2: Evaluation of Candidate Valued Components Table 6.2.1-3: Selected Valued Components and Rationale of Indicators and/or Factor Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)
954	B	6.2.2	124	Provincial Economy		5	B	6.2.2	6-16	Provincial Economy	
955	B	6.2.2.1	124	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	6.2.2.1	6-16	Introduction	
956	B	6.2.2.2	124	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	6.2.2.2	6-16	Valued Component Baseline	Table 6.2.2-1: Economic Output (GDP), Government Revenues, and Total Employment in British Columbia (2007 to 2012)
957	B	6.2.2.2	124	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	6.2.2.2	6-16	Valued Component Baseline	
958	B	6.2.2.2	124	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	6.2.2.2	6-16	Valued Component Baseline	
959	B	6.2.2.3	124	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	6.2.2.3, Subsection 6.2.2.3.1	6-18 6-19	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 6.2.2-1: Capital Cost Summary
960	B	6.2.2.3	124	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	6.2.2.3, Subsection 6.2.2.3.1.4	6-26	Potential Effects of the Proposed Project and Proposed Mitigation	
961	B	6.2.2.3	124	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	6.2.2.3, Subsection 6.2.2.3.2	6-28	Potential Effects of the Proposed Project and Proposed Mitigation	
962	B	6.2.2.3	124	Potential Effects of the Proposed Project and Proposed Mitigation	This assessment is conducted using the BC Input/Output Model (BC IOM) to estimate potential direct, indirect, and induced effects of project spending on provincial GDP and take project information on mining royalties to estimate effects on provincial revenues.	5	B	6.2.2.3	6-18	Potential Effects of the Proposed Project and Proposed Mitigation	Table 6.2.2-2: Total Estimated Effects of Project Construction on the British Columbia Economy (Year -2 to Year -1) Table 6.2.2-3: Total Estimated Effects of Project Construction on Government Revenues (Year -2 to Year -1) Table 6.2.2-4: Summary of LOM and Annual Operating Costs Table 6.2.2-5: Estimated Annual Effects of Project Operations on the BC Economy Table 6.2.2-6: Estimated Annual Effects of Project Operations on Provincial Tax Revenues Table 6.2.2-7: Summary of Closure Costs (Year +1 to Year +50) Table 6.2.2-8: Total Estimated Effects of Project Closure on the British Columbia Economy (Year +1 to Year +50) Table 6.2.2-9: Estimated Effects of Project

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											Closure on Government Revenues (Year +1 to Year +50) Table 6.2.2-10: Summary of Cumulative Project Effects on the British Columbia Economy (Year -2 to Year +50) Table 6.2.2-11: Summary of Total Project Effects on Government Revenues (Year -2 to Year +50) Figure 6.2.2-2: Project Effects on Provincial GDP over the Life of the Project
963	B	6.2.2.4	124	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	6.2.2.4	6-28	Residual Effects and their Significance	
964	B	6.2.2.4	125	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	6.2.2.4, Subsection 6.2.2.4.4	6-29	Residual Effects and their Significance	Table 6.2.2-12: Significance of Residual Project Effects on the Provincial Economy and Government Revenues
965	B	6.2.2.5	125	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	6.2.2.5	6-30	Cumulative Effects	
966	B	6.2.2.5	125	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
967	B	6.2.2.5	125	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 6.2.2.4 above.	n/a	n/a	n/a	n/a	n/a	
968	B	6.2.2.6	125	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	6.2.2.6	6-30	Limitations	
969	B	6.2.2.7	125	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	6.2.2.7	6-30	Conclusion	
970	B	6.2.3	125	Regional and Local Employment and Businesses		5	B	6.2.3	6-31	Regional and Local Employment and Businesses	
971	B	6.2.3.1	125	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	6.2.3.1	6-31	Introduction	
972	B	6.2.3.2	125	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	6.2.3.2	6-31	Valued Component Baseline	Figure 6.2.3-1: Labour Force Participation Rates in the SERSA, 2006 Figure 6.2.3-2: Annual and Monthly Unemployment Rates in the SERSA, 2006 to 2013 Figure 6.2.3-3: Non-Basic/Basic Employment Ratios for the LSA, RSA, and SERSA, 2006 and 2011 Table 6.2.3-1: Labour Force in the LSA and RSA, 2006 and 2011 Table 6.2.3-2: Numbers of Unemployed Workers and Unemployment Rates in the SERSA and BC, 2006 and 2011 Table 6.2.3-3: Labour Force Experience in the LSA, RSA, and SERSA (2011) Table 6.2.3-4: Diversity and Forest Vulnerability for LERs

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											Table 6.2.3-5: Income Dependencies (%) of LERs, 2006 Table 6.2.3-6: Median Earnings and Household Income in the SERSA and BC, 2006 and 2011
973	B	6.2.3.2	125	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	6.2.3.2	6-31	Valued Component Baseline	Table 6.2.3-7: List of Major Projects Proposed, On Hold, or Under Construction, 2013
974	B	6.2.3.2	125	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	6.2.3.2	6-31	Valued Component Baseline	
975	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 6.2.3-4: Project Purchases of Goods and Services from Suppliers in the SERSA during Construction Figure 6.2.3-5: Project Purchases of Goods and Services from Suppliers in the SERSA during Operations Figure 6.2.3-6: Project Purchases of Goods and Services from Suppliers in the SERSA during Closure Figure 6.2.3-7: Project Effects on Employment in the SERSA over the Life of the Project Table 6.2.3-8: Regional Impact Ratios (Multipliers) Used to Estimate Project Effects Table 6.2.3-9: Estimated Regional Employment and Income Effects Associated with Project Construction Table 6.2.3-10: Estimated Annual Regional Employment and Income Effects Associated with Project Operation Table 6.2.3-11: Estimated Annual Regional Employment and Income Effects Associated with Project Closure
976	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
977	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above. The assessment of potential effects is done by combining project requirements for labour during construction and operation (by skill) with available regional and local labour force.	5	B	6.2.3.3, Subsection 6.2.3.3.2	6-51	Potential Effects of the Proposed Project and Proposed Mitigation	Table 6.2.3-12: General Hiring and Procurement Policies Used to Mitigate and Enhance Project Effects on Regional Employment and Income
978	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment estimates the extent to which project employment (direct) would affect employment rates in the LSA and RSA ...	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 6.2.3-8: Project Effects on Employment in the LSA and RSA over the Life of the Project
979	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	...and will consider competing demand for the local labour pool in the LSA and RSA...	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
980	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	...and estimates the extent to which economic diversity would change. Economic diversity will be assessed by examining income dependency on economic sectors such as forestry or mining.	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	

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981	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	In addition, it identifies opportunities for increasing local and regional participation in the project workforce and regional indirect employment that would occur from local and regional purchases of goods and service.	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
982	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment also identifies opportunities for increasing participation by local and regional businesses using results from the BC IOM to estimate average and total earnings by the project workforces during construction and operations, and compares this with the most recent historical information to assess effects.	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
983	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	In addition, it will assess effects on the local economy from competing demands for the same services provided by contractors and businesses.	5	B	6.2.3.3, Subsection 6.2.3.3.1	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
984	B	6.2.3.3	126	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment discusses project commitments to training and education and describes the extent to which training and education will enhance labour force capability in the LSA and RSA.	5	B	6.2.3.3, Subsection 6.2.3.3.2	6-42	Potential Effects of the Proposed Project and Proposed Mitigation	
985	B	6.2.3.4	126	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	6.2.3.4	6-53	Residual Effects and their Significance	
986	B	6.2.3.4	126	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	6.2.3.4, Subsection 6.2.3.4.4	6-53 6-54	Residual Effects and their Significance	Table 6.2.3-13: Significance of Residual Project Effects, Local and Regional Employment and Businesses
987	B	6.2.3.5	127	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	6.2.3.5	6-55	Cumulative Effects	
988	B	6.2.3.5	127	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
989	B	6.2.3.5	127	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 6.2.3.4 above.	n/a	n/a	n/a	n/a	n/a	
990	B	6.2.3.6	127	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	6.2.3.6	6-55	Limitations	
991	B	6.2.3.7	127	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	6.2.3.7	6-55	Conclusion	
992	B	6.2.4	127	Regional and Local Government Finance		5	B	6.2.4	6-56	Regional and Local Government Finance	
993	B	6.2.4.1	127	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	6.2.4.1	6-56	Introduction	
994	B	6.2.4.2	127	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	6.2.4.2	6-56	Valued Component Baseline	Figure 6.2.4-1: Expenditures for the BNRD, FFGRD, and CRD, 2011 Figure 6.2.4-2: Revenues for the BNRD, FFGRD, and CRD, 2011
995	B	6.2.4.2	127	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	6.2.4.2	6-56	Valued Component Baseline	

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996	B	6.2.4.2	127	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	6.2.4.2	6-56	Valued Component Baseline	
997	B	6.2.4.3	127	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	6.2.4.3, Subsection 6.2.4.3.1	6-58	Potential Effects of the Proposed Project and Proposed Mitigation	
998	B	6.2.4.3	127	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	6.2.4.3, Subsection 6.2.4.3.1	6-58	Potential Effects of the Proposed Project and Proposed Mitigation	
999	B	6.2.4.3	127	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	6.2.4.3, Subsection 6.2.4.3.2	6-59	Potential Effects of the Proposed Project and Proposed Mitigation	
1000	B	6.2.4.3	128	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment uses information on project payments of municipal taxes to identify the extent to which the proposed Project would affect municipal government finances as well as potential costs to regional and local governments.	5	B	6.2.4.3, Subsection 6.2.4.3.1	6-58	Potential Effects of the Proposed Project and Proposed Mitigation	
1001	B	6.2.4.4	128	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation; • Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	6.2.4.4	6-59	Residual Effects and their Significance	Table 6.2.4-1: Significance of Residual Project Effects on Regional and Local Government Finances
1002	B	6.2.4.5	128	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	6.2.4.5	6-60	Cumulative Effects	
1003	B	6.2.4.5	128	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1004	B	6.2.4.5	128	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 6.2.4.4 above.	n/a	n/a	n/a	n/a	n/a	
1005	B	6.2.4.6	128	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	6.2.4.6	6-61	Limitations	
1006	B	6.2.4.7	128	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	6.2.4.7	6-61	Conclusion	
1007	B	6.3	129	Summary of Assessment of Economic Effects	This section of the Application will present the summary of the assessment of economic effects in the format of Table 6.3-1.	5	B	6.3	6-61	Summary of Assessment of Economic Effects	Table 6.3-1: Summary of Assessment of Potential Economic Effects
1008	**B**	**7**	**130**	**ASSESSMENT OF POTENTIAL SOCIAL EFFECTS**	This section of the Application will present the assessment of social effects. The assessment for each VC includes a description of the rationale and baseline information conducted to select the VC, discussion of potential effects of the proposed Project and proposed mitigation, and an analysis of residual effects significance. The VCs proposed for Social Conditions include demographics; regional and community infrastructure; regional and local services; family and community well-being; non-traditional land and resource use (NTLRU); current land and resource use for traditional purposes, and visual						Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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					resources. **Section 7.3** will present a summary of the social effects assessment results.						
1009	B	7.1	130	Social Baseline	This section of the Application will present an overview of the social baseline conditions for the LSA and RSA. This will include the following information: • Summary of population and demographic conditions and trends within the LSA and RSA;	5	B	7.1, Subsection 7.1.1.1	7.1-4	Social Baseline	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17)
1010	B	7.1	130	Social Baseline	• Summary of regional and community infrastructure within the selected study area, focusing on municipal infrastructure and facilities, housing and temporary accommodation, and …	5	B	7.1, Subsection 7.1.1.2	7.1-4	Social Baseline	
1011	B	7.1	130	Social Baseline	… regional transportation;	5	B	7.1, Subsection 7.1.1.3	7.1-7	Social Baseline	
1012	B	7.1	130	Social Baseline	• Overview of the current regional services available in the study area, including educational, health, social and protective services;	5	B	7.1, Subsection 7.1.1.4	7.1-7	Social Baseline	
1013	B	7.1	130	Social Baseline	• Brief description of the community well-being conditions in the LSA and RSA;	5	B	7.1, Subsection 7.1.1.5	7.1-8	Social Baseline	
1014	B	7.1	130	Social Baseline	• A summary of the publicly available baseline data describing NTLRU occurring within the proposed study area; and	5	B	7.1, Subsection 7.1.2	7.1-10	Social Baseline	
1015	B	7.1	130	Social Baseline	• Summary of the baseline characterization for visual resources.	5	B	7.1, Subsection 7.1.4	7.1-26	Social Baseline	
1016	B	7.1.1	130	Social Conditions	The social baseline characterization focuses on identifying current social capacity and thresholds in the study area. Baseline data are collected via a variety of mediums including: • Community profiles from the 2011 and 2006 and Census. When and where trending is appropriate, the 2001 and 1996 Census is also utilized; • Various reports provided by BC Stats and Vital Statistics BC; • Community and regional reports from government agencies, community profiles produced by municipalities and community and regional websites; • Various reports produced by BC Ministry of Justice (which reports crime statistics), BC Ministry of Education, BC Ministry of Transportation and Infrastructure (BC MOTI), Insurance Corporation of British Columbia, BC Transit, Northern Health, BC Ministry of Public Safety and Solicitor General, as well as Official Community Plans; and • Interviews with key informants, including Royal Canadian Mounted Police (RCMP).	5	B	7.1.1	7.1-2	Social Conditions	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17)
1017	B	7.1.1	130	Social Conditions	The detailed social baseline studies within the LSA and RSA will be presented in an appendix to this section and will include: • Demographic conditions and trends within the region;	5	B	7.1, Subsection 7.1.1.1	7.1-4	Social Conditions	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 7.1.1-1: Economic, Social, and Human Health Study Areas Table 7.1.1-1: Indian Reserves in the Socio-economic Local Study Area
1018	B	7.1.1	130	Social Conditions	• Capabilities and capacity of existing regional infrastructure (e.g., municipal infrastructure and facilities, housing and temporary accommodation, and …	5	B	7.1, Subsection 7.1.1.2	7.1-4	Social Conditions	
1019	B	7.1.1	130	Social Conditions	…regional transportation);	5	B	7.1, Subsection 7.1.1.3	7.1-7	Social Conditions	

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1020	B	7.1.1	130	Social Conditions	• Description of regional services and capacity (e.g., educational, health, social and protective services);	5	B	7.1, Subsection 7.1.1.4	7.1-7	Social Conditions	
1021	B	7.1.1	130	Social Conditions	• Measures of family and community well-being and human health; and	5	B	7.1, Subsection 7.1.1.5	7.1-8	Social Conditions	
1022	B	7.1.1	130	Social Conditions	• Overview of the current transportation network in the study area.	5	B	7.1, Subsection 7.1.1.3	7.1-7	Social Conditions	
1023	B	7.1.2	131	Non-Traditional Land and Resource Use	The scope of the land use baseline is determined based on the review of the available information. A summary of the publicly available baseline data describing NTLRU occurring within the proposed study area are compiled. The following methods are used to complete the compilation of available baseline information: • Information from various government, commercial and private websites, guidance documents, acts, regulations and reports are reviewed; • Information from GIS databases (e.g., GeoBC) are sorted, summarized, and mapped, where available; and • Individuals and companies familiar with the Project area may be contacted and requested to provide comment.	5	B	7.1.2	7.1.-10	Non-Traditional Land and Resource Use	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1024	B	7.1.2	131	Non-Traditional Land and Resource Use	Following the review of information compiled during the detailed desktop study, data gaps are identified and reviewed with relevant local and provincial government agencies to determine if additional information is available. Stakeholders, including land tenure holders (e.g., timber rights holders, ROW holders, etc.) may be contacted for specific information to address gaps if within the scope of the proposed Project.	5	B	7.1.2	7.1-10	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1025	B	7.1.2	131	Non-Traditional Land and Resource Use	The NTLRU baseline report will include a description of the historical and current land uses within the proposed study area.	5	B	7.1.2	7.1-10	Non-Traditional Land and Resource Use	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1026	B	7.1.2	131	Non-Traditional Land and Resource Use	A description of applicable land use management objectives for the proposed Project area will also be presented, where available, land and resource uses considered in this section include: • Protected areas and parks;	5	B	7.1.2, Subsections 7.1.2.1, 7.1.2.2	7.1-11 7.1-13	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1027	B	7.1.2	131	Non-Traditional Land and Resource Use	• Recreation/tourism use (e.g., all terrain vehicle use);	5	B	7.1.2, Subsection 7.1.2.3	7.1-13	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1028	B	7.1.2	131	Non-Traditional Land and Resource Use	• Mining, exploration, and mineral tenures;	5	B	7.1.2, Subsection 7.1.2.6	7.1-14	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1029	B	7.1.2	131	Non-Traditional Land and Resource Use	• Forestry and timber resource use;	5	B	7.1.2, Subsection 7.1.2.7	7.1-14	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1030	B	7.1.2	131	Non-Traditional Land and Resource Use	• Hunting/trapping/guide outfitting;	5	B	7.1.2, Subsection 7.1.2.4	7.1-14	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1031	B	7.1.2	131	Non-Traditional Land and Resource Use	• Fishing and aquaculture;	5	B	7.1.2, Subsection 7.1.2.5	7.1-14	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1032	B	7.1.2	132	Non-Traditional Land and Resource Use	• Agriculture and grazing; • Range use;	5	B	7.1.2, Subsection 7.1.2.8	7.1-15	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1033	B	7.1.2	132	Non-Traditional Land and Resource Use	• Traffic and access;	5	B	7.1.2, Subsection 7.1.2.12	7.1-16	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1034	B	7.1.2	132	Non-Traditional Land and Resource Use	• Land ownership and tenures;	5	B	7.1.2, Subsection 7.1.2.9	7.1-15	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1035	B	7.1.2	132	Non-Traditional Land and Resource Use	• Recreational or commercial use of waterways for transportation;	5	B	7.1.2, Subsection 7.1.2.11	7.1-16	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1036	B	7.1.2	132	Non-Traditional Land and Resource Use	• Groundwater resource use; and	5	B	7.1.2, Subsection 7.1.2.10	7.1-16	Non-Traditional Land and Resource Use	Figure 7.1.2-1: Water Licenses Overlapping the Non-traditional Land Use Regional Study Area Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1037	B	7.1.2	132	Non-Traditional Land and Resource Use	• Surface water resource use.	5	B	7.1.2, Subsection 7.1.2.10	7.1-16	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1038	B	7.1.2	132	Non-Traditional Land and Resource Use	This information will facilitate the formulation of the Project Inclusion List for use in the cumulative effects assessment.	5	B	7.1.2	7.1.2-10	Non-Traditional Land and Resource Use	Appendix 7.1.2A: Non-traditional Land Use 2013 Baseline Report (App Volume 17) Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1039	B	7.1.3	132	Current Land and Resource Use for Traditional Purposes	This section of the Application will provide a summary of the current use of lands and resources for traditional purposes by Aboriginal peoples potentially affected by the proposed Project. Current use of lands and resources for traditional purposes may or may not be linked to the exercise of asserted or established Aboriginal or treaty rights (Aboriginal Interests) by Aboriginal people; they may have originated before or after the critical dates related to assessment of Aboriginal Interests, and may make use of locations inside or outside the boundary of an asserted traditional territory. For each Aboriginal group, current land use information available may vary depending on the participation of the particular Aboriginal group in the EA Process.	5	B	7.1.3	7.1-17	Current Land and Resource Use for Traditional Purposes	Figure 7.1.3-1: First Nations Territories and Current Land and Resource Use for Traditional Purposes Study Areas Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1040	B	7.1.3	132	Current Land and Resource Use for Traditional Purposes	The following sources are used to compile the available baseline information: • Project-specific Traditional Land Use (TLU) and Traditional Knowledge (TK) studies or other Project-related information provided by Aboriginal groups; • Ethno-historical, and ethnographic literature; • Semi-structure interviews; focus groups and community meetings with Aboriginal groups representatives; and	5	B	7.1.3	7.1-17	Current Land and Resource Use for Traditional Purposes	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1041	B	7.1.3	132	Current Land and Resource Use for Traditional Purposes	• Results from consultation with Aboriginal groups.	5	B	7.1.3	7.1-17	Current Land and Resource Use for Traditional Purposes	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1042	B	7.1.4	132	Visual Resources	The scope of the visual resources baseline is determined based on review of the available information. A summary of the publicly available baseline data describing visual and aesthetic resources occurring within the proposed study area is compiled.	5	B	7.1.4	7.1-26	Visual Resources	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.4A: Visual Resources 2013

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											Baseline Report (AMEC E&I) (App Volume 17) Figure 7.1.4-2: Visual Resources Study Areas
1043	B	7.1.4	132	Visual Resources	The baseline analysis describes the setting, …	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1044					… whether or not a visual resource is present, and why it qualifies as a visual resource.	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1045	B	7.1.4	132	Visual Resources	An inventory of existing visual features is developed.	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1046	B	7.1.4	132	Visual Resources	The visual resources potentially affected by the proposed Project are identified by a variety of measures such as the following: • An inventory of visual and aesthetic resources is compiled following the review of the appropriate LRMPs which may include recreational values, protected areas, and areas identified as scenic;	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1047	B	7.1.4	133	Visual Resources	• Internet databases (e.g., GeoBC) and available information on tourism, recreational use, scenic areas, and aesthetic resources are reviewed;	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1048	B	7.1.4	133	Visual Resources	• Various individuals familiar with the area (e.g., tourism officers, may be interviewed); and	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1049	B	7.1.4	133	Visual Resources	• The perspective of potential viewers based on the locations of proposed Project components is developed.	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1050	B	7.1.4	133	Visual Resources	Following the review of information compiled during the detailed desktop study, data gaps are identified and reviewed with relevant local and provincial government agencies to determine if additional information is available. Stakeholders, including land tenure holders (e.g., timber rights holders, ROW holders, etc.) may be contacted for specific information to address gaps if within the scope of the proposed Project.	5	B	7.1.4, Subsection 7.1.4.1.2	7.1-27	Visual Resources	
1051	B	7.1.4	133	Visual Resources	Potentially sensitive viewpoints and land uses in the area are identified and photographs taken from proposed locations from one or more directions looking towards the proposed Project. Where possible, Global Positioning System points for the photographs are recorded, along with a compass bearing to document the direction of each photograph. If available, representative viewpoints may also be proposed using Google Maps Street View.	5	B	7.1.4, Subsection 7.1.4.1.2.7	7.1-33	Visual Resources	Figure 7.1.4-1: Viewshed Analyses of Selected Mine Site Facilities Figure 7.1.4-3: View of the Camp from the Intersection of the Kluskus-Ootsa and Kluskus-Messue FSRs Table 7.1.4 -1: Total Area of Theoretical Visibility for Each Study Area Table 7.1.4-2: Photo Viewpoint Baseline Views in the Mine Site Study Areas Table 7.1.4-4: Photo Viewpoint Baseline Views along the Proposed Transmission Line
1052	B	7.1.4	133	Visual Resources	Visual resources considered in this section include a review of: • Parks, protected areas and conservancy areas;	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	

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1053	B	7.1.4	133	Visual Resources	• Documented recreational and tourism locations/areas;	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1054	B	7.1.4	133	Visual Resources	• Other land uses occurring in the area;	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1055	B	7.1.4	133	Visual Resources	• Visual Landscape Inventory (visual sensitivity); • Recreational Features Inventory (recreation significance, view lines and points); and	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	Table 7.1.4-3: Landscape Rating for Photo Viewpoints in the Mine Site Study Areas Table 7.1.4-5: Landscape Rating for Photo Viewpoints along the Proposed Transmission Line
1056	B	7.1.4	133	Visual Resources	• Established visual quality objectives.	5	B	7.1.4, Subsection 7.1.4.1.1	7.1-26	Visual Resources	
1057	B	7.2	133	Social Effects Assessment	This section of the Application will present the identification and selection of social VCs following the methods described in Section 4.2. This section will also present the assessment of effects for the proposed valued components following the methods described in Section 4.3.	5	B	7.2, Subsection 7.2.1	7.2.1-1	Social Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1058	B	7.2.1	133	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for Social Condition.	5	B	7.2.1	7.2.1-1	Identification and Selection of Valued Components	Table 7.2.1 1: Candidate Valued Component Rationale Table 7.2.1 2: Evaluation of Candidate Valued Components Table 7.2.1 3: Candidate Valued Components Not Selected Table 7.2.1 4: Selected Valued Components and Rationale of Indicators and/or Factor Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)
1059	B	7.2.2	133	Demographics		5	B	7.2.2	7.2.2-1	Demographics	
1060	B	7.2.2.1	133	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	7.2.2.1	7.2.2-1	Introduction	
1061	B	7.2.2.2	134	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	7.2.2.2	7.2.2-1	Valued Component Baseline	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17)
1062	B	7.2.2.2	134	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.2.2, Subsection 7.2.2.2.1	7.2.2-3	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
1063	B	7.2.2.2	134	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.2.2, Subsection 7.2.2.2.2	7.2.2-3	Valued Component Baseline	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4)
1064	B	7.2.2.3	134	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the	5	B	7.2.2.3, Subsection 7.2.2.3.1	7.2.2-3	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.2-1: Potential Project Effects on Regional Population and Demographics

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					proposed Project's construction, operations, closure and post-closure phases;						
1065	B	7.2.2.3	134	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.2.3, Subsection 7.2.2.3.2	7.2.2-8	Potential Effects of the Proposed Project and Proposed Mitigation	
1066	B	7.2.2.3	134	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.2.3, Subsection 7.2.2.3.3	7.2.2-8	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.2-2: Mitigation Measures and Potential Residual Effects for Demographics Table 7.2.2-3: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Demographics during Mine Site Development
1067	B	7.2.2.3	134	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment estimates the extent to which project employment and purchases (as estimated in Section 6 Economic Effects Assessment) would result in people moving into the study area, either permanently or temporary, which in turn would affect demand for regional services and infrastructure.	5	B	7.2.2.3, Subsection 7.2.2.3.1	7.2.2-3	Potential Effects of the Proposed Project and Proposed Mitigation	
1068	B	7.2.2.4	134	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	7.2.2.4	7.2.2-10	Residual Effects and their Significance	
1069	B	7.2.2.4	134	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.2.4	7.2.2-10	Residual Effects and their Significance	Table 7.2.2-4: Significance of Potential Residual Effects for Demographics
1070	B	7.2.2.5	134	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	7.2.2.5	7.2.2-12	Cumulative Effects	
1071	B	7.2.2.5	134	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1072	B	7.2.2.5	134	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.2.4 above.	n/a	n/a	n/a	n/a	n/a	
1073	B	7.2.2.6	135	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.2.6	7.2.2-12	Limitations	
1074	B	7.2.2.7	135	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.2.7	7.2.2-13	Conclusion	
1075	B	7.2.3	135	Regional and Community Infrastructure		5	B	7.2.3	7.2.3-1	Regional and Community Infrastructure	
1076	B	7.2.3.1	135	Introduction	This subsection will describe the approach and ...	5	B	7.2.3.1	7.2.3-1	Introduction	
1077	B	7.2.3.1	135	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	7.2.3.1	7.2.3-1	Introduction	
1078	B	7.2.3.2	135	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	7.2.3.2	7.2.3-3	Valued Component Baseline	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 7.2.3-1: Traffic Volumes at Four Locations in the SERSA in 2005, 2011, and 2012 Figure 7.2.3-2: North Haul Routes Table 7.2.3-1: Overview of Available Water and Sewage Treatment Services in SERSA Table 7.2.3-2: Recreational Infrastructure and

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											Opportunities in SERSA Table 7.2.3-3: Motor Vehicle Accident Data for Highways 16 and 27 (2007-2011) Table 7.2.3-4: Traffic Volumes on Kluskus FSR 2012 and 2013
1079	B	7.2.3.2	135	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.3.2, Subsection 7.2.3.2.3	7.2.3-14	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
1080	B	7.2.3.2	135	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.3.2	7.2.3-3	Valued Component Baseline	
1081	B	7.2.3.3	135	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.3.3	7.2.3-15	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.3-5: Potential Project Effects on Regional and Community Infrastructure Services
1082	B	7.2.3.3	135	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.3.3, Subsection 7.2.3.3.3	7.2.3-29	Potential Effects of the Proposed Project and Proposed Mitigation	
1083	B	7.2.3.3	135	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.3.3, Subsection 7.2.3.3.4	7.2.3-29	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.3-6: Mitigation Measures and Potential Residual Effects for Regional and Community Infrastructure Services Table 7.2.3-11: Mitigation Measures and Potential Residual Effects for Regional Transportation Table 7.2.3-12: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Regional and Community Infrastructure during Mine Site Development
1084	B	7.2.3.3	135	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment determines the ability of regional infrastructure to absorb the increased demand resulting from the proposed Project. The methodology utilized to determine the Project effects on regional and community infrastructure in the study area are: • Estimating anticipated increase in demand for regional and municipal infrastructure (water supply, water/sewage treatment, landfills, communications, electricity, and recreational facilities) and comparing it to the RSA's current baseline conditions and determining the RSA's ability to absorb the additional demand;	5	B	7.2.3.3, Subsection 7.2.3.3.1.1	7.2.3-15	Potential Effects of the Proposed Project and Proposed Mitigation	
1085	B	7.2.3.3	136	Potential Effects of the Proposed Project and Proposed Mitigation	• Estimating anticipated increase in demand for housing and temporary accommodation against the data collected in the baseline regarding RSA's capacity and ability to provide housing and temporary accommodation; and	5	B	7.2.3.3, Subsection 7.2.3.3.1.1	7.2.3-15	Potential Effects of the Proposed Project and Proposed Mitigation	
1086	B	7.2.3.3	136	Potential Effects of the Proposed Project and Proposed Mitigation	• Assessing potential additional demands on the transportation network infrastructure in the study area that would occur from Project-related transportation activities and comparing those against current transportation network capacity and user safety.	5	B	7.2.3.3, Subsection 7.2.3.3.2.1	7.2.3-22	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.3-7: Mine Construction Traffic: Average Daily Return Trips and Vehicle Types Table 7.2.3-8: Mine Operations Traffic: Average Daily Return Trips and Vehicle Types Table 7.2.3-9: Mine Decommissioning and Closure Traffic: Average Daily Return Trips and Vehicle Types Table 7.2.3-10: Potential Project Effects on Regional Transportation

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1087	B	7.2.3.4	136	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	7.2.3.4	7.2.3-34	Residual Effects and their Significance	
1088	B	7.2.3.4	136	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.3.4	7.2.3-34	Residual Effects and their Significance	Table 7.2.3-13: Significance of Potential Residual Effects for Regional and Community Infrastructure Services Table 7.2.3-14: Significance of Potential Residual Effects for Regional Transportation
1089	B	7.2.3.5	136	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	7.2.3.5	7.2.3-39	Cumulative Effects	
1090	B	7.2.3.5	136	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1091	B	7.2.3.5	136	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.3.4 above.	n/a	n/a	n/a	n/a	n/a	
1092	B	7.2.3.6	136	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.3.6	7.2.3-40	Limitations	
1093	B	7.2.3.7	136	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.3.7	7.2.3-41	Conclusion	
1094	B	7.2.4	137	Regional and Local Services		5	B	7.2.4	7.2.4-1	Regional and Local Services	
1095	B	7.2.4.1	137	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	7.2.4.1	7.2.4-1	Introduction	
1096	B	7.2.4.2	137	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	7.2.4.2	7.2.4-1	Valued Component Baseline	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 7.2.4-1: Criminal Code Offenses in the SERSA, 2001 to 2010 Table 7.2.4-1: Main Health Centres by Community Table 7.2.4-2: Fire Protection and Emergency Services in SERSA
1097	B	7.2.4.2	137	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.4.2, Subsection 7.2.4.2.6	7.2.4-6	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
1098	B	7.2.4.2	137	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.4.2	7.2.4-1	Valued Component Baseline	
1099	B	7.2.4.3	137	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.4.3	7.2.4-6	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.4-3: Potential Project Effects on Regional and Community Services
1100	B	7.2.4.3	137	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.4.3, Subsection 7.2.4.3.2	7.2.4-9	Potential Effects of the Proposed Project and Proposed Mitigation	
1101	B	7.2.4.3	137	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.4.3, Subsection 7.2.4.3.3	7.2.4-10	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.4-4: Mitigation Measures and Potential Residual Effects for Regional and Community Services Table 7.2.4-5: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce

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											Potential Effects on Regional and Local Services during Mine Site Development
1102	B	7.2.4.3	137	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment determines the ability of regional and local services to absorb potential temporary and permanent increased demand resulting from the proposed Project. This includes estimating the increased demand for educational, health, social and protective services, and determining what affects a temporary and permanent influx of new residents may have on the study area's services and conditions by drawing from statistics and interviews found in the baseline.	5	B	7.2.4.3, Subsection 7.2.4.3.1	7.2.4-7	Potential Effects of the Proposed Project and Proposed Mitigation	
1103	B	7.2.4.4	137	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	7.2.4.4	7.2.4-20	Residual Effects and their Significance	
1104	B	7.2.4.4	137	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.4.4	7.2.4-20	Residual Effects and their Significance	Table 7.2.4-6: Significance of Potential Residual Effects for Regional Services
1105	B	7.2.4.5	138	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	7.2.4.5	7.2.4-24	Cumulative Effects	
1106	B	7.2.4.5	138	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1107	B	7.2.4.5	138	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.4.4 above.	n/a	n/a	n/a	n/a	n/a	
1108	B	7.2.4.6	138	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.4.6	7.2.4-24	Limitations	
1109	B	7.2.4.7	138	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.4.7	7.2.4-24	Conclusion	
1110	B	7.2.5	138	Family and Community Well-being		5	B	7.2.5	7.2.5-1	Family and Community Well-being	
1111	B	7.2.5.1	138	Introduction	This subsection will describe the approach and applicable regulatory framework for the assessment of the VC.	5	B	7.2.5.1	7.2.5-1	Introduction	
1112	B	7.2.5.2	138	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	7.2.5.2	7.2.5-1	Valued Component Baseline	Figure 7.2.5-1: Adult Crime Rates in SERSA, 2008 to 2010 Table 7.2.5-1: Indicators of Economic Hardship in SERSA by Health Service Delivery Areas, British Columbia Table 7.2.5-2: Children at Risk Indicators Table 7.2.5-3: Indicators of Youth at Risk in SERSA Table 7.2.5-4: Community Well-Being Index in SERSA
1113	B	7.2.5.2	138	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.5.2, Subsection 7.2.5.2.8	7.2.5-7	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)

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1114	B	7.2.5.2	138	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.5.2	7.2.5-1	Valued Component Baseline	
1115	B	7.2.5.3	138	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.5.3, Subsection 7.2.5.3.1	7.2.5-7	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 6.1A: Economic 2013 Baseline Report (AEMC E&I) (App Volume 17) Table 7.2.5-5: Potential Project Effects on Family and Community Well-Being
1116	B	7.2.5.3	138	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.5.3, Subsection 7.2.5.3.2	7.2.5-12	Potential Effects of the Proposed Project and Proposed Mitigation	
1117	B	7.2.5.3	138	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.5.3, Subsection 7.2.5.3.3	7.2.5-12	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.5-6: Mitigation Measures and Potential Residual Effects for Family and Community Well-being Table 7.2.5-7: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Family and Community Well-Being during Mine Site Development
1118	B	7.2.5.3	139	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the extent to which the potential change in demographics and new project-related income and employment may affect the well-being of families and communities in the study area in terms of economic hardship, crime and family relationships.	5	B	7.2.5.3, Subsection 7.2.5.3.1	7.2.5-7	Potential Effects of the Proposed Project and Proposed Mitigation	
1119	B	7.2.5.4	139	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	7.2.5.4	7.2.5-20	Residual Effects and their Significance	
1120	B	7.2.5.4	139	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.5.4	7.2.5-20	Residual Effects and their Significance	Table 7.2.5-8: Significance of Potential Residual Effects for Family and Community Well-Being
1121	B	7.2.5.5	139	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	7.2.5.5	7.2.5-22	Cumulative Effects	
1122	B	7.2.5.5	139	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1123	B	7.2.5.5	139	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.5.4 above.	n/a	n/a	n/a	n/a	n/a	
1124	B	7.2.5.6	139	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.5.6	7.2.5-23	Limitations	
1125	B	7.2.5.7	139	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.5.7	7.2.5-23	Conclusion	
1126	B	7.2.6	139	Non-Traditional Land and Resource Use		5	B	7.2.6	7.2.6-1	Non-Traditional Land and Resource Use	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1127	B	7.2.6.1	139	Introduction	This subsection will describe the approach and…	5	B	7.2.6.1	7.2.6-1	Introduction	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1128	B	7.2.6.1	139	Introduction	... applicable regulatory framework for the assessment of the VC.	5	B	7.2.6.1, Subsection 7.2.6.1.2	7.2.6-2	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1129	B	7.2.6.2	140	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and …	5	B	7.2.6.2	7.2.6-5	Valued Component Baseline	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Figure 7.2.6-1: Water Licenses Overlapping the Non-traditional Land Use Regional Study Area Table 7.2.6-2: Land Ownership (%) Overlapping the Project Study Area Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1130	B	7.2.6.2	140	Valued Component Baseline	… the source of the information;	5	B	7.2.6.2	7.2.6-5	Valued Component Baseline	Appendix 7.2.6A: Blackwater Gold Project Navigable Waters Baseline Report and Technical Assessment 2014 (ERM Rescan) (App Volume 17) Table 7.2.6-1: Example Databases and References Reviewed Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1131	B	7.2.6.2	140	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.6.2	7.2.6-5	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1132	B	7.2.6.2	140	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.6.2, Section 7.2.6.2.13	7.2.6-13	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1133	B	7.2.6.3	140	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.6.3	7.2.6-15	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.6-3: Potential Project Effects by Project Phase on Land and Resource Use and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1134	B	7.2.6.3	140	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.6.3	7.2.6-15	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1135	B	7.2.6.3	140	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.6.3, Subsection 7.2.6.3.9	7.2.6-15 7.2.6-50	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.6-3: Potential Project Effects by Project Phase on Land and Resource Use and Mitigation Measures Table 7.2.6-4: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Non-Traditional Land and Resource Use of Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1136	B	7.2.6.3	140	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the interaction of the proposed Project footprint and activities against NTLRU, including: • Protected areas and parks; • Historic and current mining and exploration activities; • Small gravel pits and rock quarries; • Forestry activities and timber resource use; • Hunting/guide outfitting; • Registered traplines;	5	B	7.2.6.3	7.2.6-15	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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					• Range use; • Fishing and aquaculture; • Recreational or commercial use of waterways; • Recreation/tourism use (e.g., all terrain vehicle use); • Traffic and access; • Groundwater resource use; • Surface water resource use; and • Permits, licenses, and land tenures.						
1137	B	7.2.6.3	140	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment incorporates applicable management objectives and strategies for assessing potential effects at a regional scale.	5	B	7.2.6.3	7.2.6-15	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1138	B	7.2.6.4	141	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	7.2.6.4	7.2.6-56	Residual Effects and their Significance	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1139	B	7.2.6.4	141	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.6.4	7.2.6-56	Residual Effects and their Significance	Table 7.2.6-5: Summary of Residual Effects for Land and Resource Use, Mine Site Study Area Table 7.2.6-6: Summary of Residual Effects for Land and Resource Use (Mine Site Access Road Study Area) Table 7.2.6-7: Summary of Residual Effects for Land and Resource Use (Airstrip Study Area) Table 7.2.6-8: Summary of Residual Effects for Land and Resource Use (Water Supply Study Area) Table 7.2.6-9: Summary of Residual Effects for Land and Resource Use (Transmission Line Study Area) Table 7.2.6-10: Summary of Residual Effects for Land and Resource Use (FSR Study Area) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1140	B	7.2.6.5	141	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	7.2.6.5	7.2.6-78	Cumulative Effects	Table 7.2.6-11: Project-Related Residual Effects; Rationale for Carrying Forward into the CEA Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1141	B	7.2.6.5	141	Cumulative Effects	• Assess potential cumulative effects; and	5	B	7.2.6.5	7.2.6-78	Cumulative Effects	Table 7.2.6-12: Interactions between NTLRU and other Past, Present, and Future Projects/Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1142	B	7.2.6.5	141	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.6.4 above.	5	B	7.2.6.5, Subsection 7.2.6.5.1	7.2.6-82	Cumulative Effects	Table 7.2.6-13: Summary of Significance of Cumulative Effects Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1143	B	7.2.6.6	141	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.6.6	7.2.6-86	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1144	B	7.2.6.7	141	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.6.7	7.2.6-87	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1145	B	7.2.7	141	Current Land and Resource Use for Traditional Purposes		5	B	7.2.7	7.2.7-1	Current Land and Resource Use for Traditional Purposes	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1146	B	7.2.7	141	Current Land and Resource Use for Traditional Purposes	Information on the current use of lands and resources for traditional purposes by Aboriginal people potentially affected by the proposed Project will be provided in this section of the Application. Current uses may or may not be linked to the exercise of asserted or established Aboriginal or treaty rights (Aboriginal Interests) by Aboriginal people. Aboriginal people may rely on a more traditional economy, closely tied to the use of lands and natural resources, for everyday living. Aspects of the traditional economy may have originated before or after the critical dates related to assessment of Aboriginal Interests, and may make use of locations inside or outside the boundary of an asserted traditional territory. This section will discuss potential impacts to the current uses of lands and resources by Aboriginal people. A discussion of potential impacts to Aboriginal Interests will be provided in Part C of the Application and may draw on information related to the current use of lands and resources by Aboriginal people presented in this section.	5	B	7.2.7	7.2.7-1	Current Land and Resource Use for Traditional Purposes	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1147	B	7.2.7.1	142	Introduction	This subsection will describe the approach and ...	5	B	7.2.7.1, Subsection 7.2.7.1.3	7.2.7-1 7.2.7-6	Introduction	Figure 7.2.7-1: Traditional Territories and Current Land and Resource Use for Traditional Purposes Study Areas Table 7.2.7-2: Potential Effects on Current Land and Resources Use for Traditional Purposes Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1148	B	7.2.7.1	142	Introduction	...applicable regulatory framework for the assessment of the VC.	5	B	7.2.7.1, Subsection 7.2.7.1.1	7.2.7-2	Introduction	Table 7.2.7-1: Aboriginal Land Use Plans and Strategic Agreements Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1149	B	7.2.7.2	142	Valued Component Baseline	This subsection will: • Provide baseline information on the VC and the source of the information;	5	B	7.2.7.2	7.2.7-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1150	B	7.2.7.2	142	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.7.2 Subsection 7.2.7.2.2	7.2.7-9 7.2.7-10	Valued Component Baseline	Figure 7.2.7-2: Projects and Human Activities Included in the Cumulative Effects Assessment (Disturbed Areas) Table 7.2.7-3: Spatial Overlap by Project/Activity Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1151	B	7.2.7.2	142	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available. Baseline information on current land use for traditional purposes will be based on desk-based research from historical, ethnographic and current sources, field interviews and on TLU and TK studies provided by Aboriginal groups, when available. For each Aboriginal group potentially affected by the proposed Project, current land use information available may vary depending on the participation of the particular First Nation in the EA Process. Detail data collection efforts, challenges, and results to date will be included in this section.	5	B	7.2.7.2, Subsection 7.2.7.2.1	7.2.7-9 7.2.7-9	Valued Component Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 7.2.7-3: Lhoosk'uz Dene Nation Traditional Territory and Study Areas Figure 7.2.7-4: Nadleh Whut'en First Nation Traditional Territory and Study Areas Figure 7.2.7-5: Saik'uz First Nation Traditional Territory and Study Areas Figure 7.2.7-6: Stellat'en First Nation Traditional Territory and Study Areas Figure 7.2.7-7: Ulkatcho First Nation Traditional Territory and Study Areas Figure 7.2.7-8: Ulkatcho First Nation Traditional Land Use Site Distribution within the Study Area Figure 7.2.7-9: Nazko First Nation Traditional Territory and Study Areas Figure 7.2.7-10: Skin Tyee Nation Traditional

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											Territory and Study Areas Figure 7.2.7-11: Tsilhqot'in Traditional Territory and Study Areas Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1152	B	7.2.7.2	142	Valued Component Baseline	The Proponent's proposed approach to addressing additional information on TLU and/or TK received during the Application Review Period or post-Certification (should an EA Certificate be issued) will also be noted.	5	B	7.2.7.2	7.2.7-9	Valued Component Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1153	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.7.3	7.2.7-46	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1154	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.7.3, Subsection 7.2.7.3.2	7.2.7-46 7.2.7-47	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1155	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.7.3	7.2.7-46	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 9.2.2B: Country Foods Monitoring Plan (AMEC E&I) (App Volume 18) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1156	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment considers the potential effects of the proposed Project and activities on current land and resource use for traditional purposes within the defined study areas in relation to: • Changes in hunting and …	5	B	7.2.7.3, Subsection 7.2.7.3.4	7.2.7-49	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1157	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	…trapping activities;	5	B	7.2.7.3, Subsection 7.2.7.3.5	7.2.7-52	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1158	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	• Changes in fishing activities;	5	B	7.2.7.3, Subsection 7.2.7.3.6	7.2.7-54	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1159	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	• Changes in plant gathering activities; and	5	B	7.2.7.3, Subsection 7.2.7.3.7	7.2.7-57	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1160	B	7.2.7.3	142	Potential Effects of the Proposed Project and Proposed Mitigation	• Changes in other cultural and traditional uses of the land (e.g., cultural and spiritual places, trails, navigation).	5	B	7.2.7.3, Subsection 7.2.7.3.8	7.2.7-59	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.7-4: Summary of Potential Project Effects by Project Phase and Mitigation Measures Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1161	B	7.2.7.3	143	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment will consider potential restrictions on access to land and resources, change in amount of resources available and sensory disturbances.	5	B	7.2.7.3	7.2.7-46	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1162	B	7.2.7.3	143	Potential Effects of the Proposed Project and Proposed Mitigation	The assessment will consider assessments and mitigations developed in other sections of the Application (e.g. fish and fish habitat, ecosystem composition, moose, etc.). A discussion of potential impacts to Aboriginal Interests will be provided in Part C of the Application and may draw on information related to the current use of lands and resources by Aboriginal peoples presented in this section.	5	B	7.2.7.3 7.2.7.4	7.2.7-46 7.2.7-66	Potential Effects of the Proposed Project and Proposed Mitigation Residual Effects and their Significance	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 7.2.7-5: Potential Changes in the Availability of Harvested Resources for LDN Table 7.2.7-6: Potential Changes in the Availability of Harvested Resources for NWFN Table 7.2.7-7: Potential Changes in the Availability of Harvested Resources for SFN Table 7.2.7-8: Potential Changes in the Availability of Harvested Resources for StFN Table 7.2.7-9: Potential Changes in the Availability of Harvested Resources for UFN Table 7.2.7-10: Potential Changes in the Availability of Trapping Resources for LDN Table 7.2.7-11: Potential Changes in the Availability of Trapping Resources for SFN Table 7.2.7-12: Potential Changes in the Availability of Trapping Resources for UFN Table 7.2.7-13: Loss of Fish and Fish Habitat Type for LDN Table 7.2.7-14: Loss of Fish and Fish Habitat Type for UFN Table 7.2.7-15: Traditional Use Plant Species Table 7.2.7-16: Potential Changes in the Availability of Traditional Plant Habitat for LDN Table 7.2.7-17: Potential Changes in the Availability of Traditional Plant Habitat for NWFN Table 7.2.7-18: Potential Changes in the Availability of Traditional Plant Habitat for SFN Table 7.2.7-19: Potential Changes in the Availability of Traditional Plant Habitat for StFN Table 7.2.7-20: Potential Changes in the Availability of Traditional Plant Habitat for UFN Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1163	B	7.2.7.4	143	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation; • Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility and frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.7.4	7.2.7-66	Residual Effects and their Significance	Table 7.2.7-21: Summary of Residual Effects of the Project on Current Land and Resource Use for Tradition Purposes Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1164	B	7.2.7.5	143	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and • If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.7.4 above.	5	B	7.2.7.5	7.2.7-130	Cumulative Effects	Figure 7.2.7-12: Cumulative Effects in LDN and UFN Traditional Territories within the CLRUTP RSA Table 7.2.7-22: Residual Effects on CLRUTP Carried Forward for Cumulative Effects Assessment Table 7.2.7-23: Past, Present and Future Projects and Activities in LDN traditional territory Overlapping RSA Table 7.2.7-24: Past, Present and Future Projects

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											and Activities in Trapline TR0512T014 Table 7.2.7-25: Past, Present and Future Projects and Activities in UFN Traditional Territory Overlapping RSA Table 7.2.7-26: Summary of Cumulative Effects on Current Land and Resource Use for Tradition Purposes Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1165	B	7.2.7.6	143	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.7.6, 7.2.7.7	7.2.7-142 7.2.7-142	Limitations Assumptions	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1166	B	7.2.7.7	143	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.7.8	7.2.7-142	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1167	B	7.2.8	144	Visual Resources		5	B	7.2.8	7.2.8-1	Visual Resources	
1168	B	7.2.8.1	144	Introduction	This subsection will describe the approach and ...	5	B	7.2.8.1	7.2.8-1	Introduction	Appendix 7.1.4A: Visual Resources 2013 Baseline Report (AMEC E&I) (App Volume 17)
1169	B	7.2.8.1	144	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	7.2.8.1, Subsection 7.2.8.1.1.1	7.2.8-1 7.2.8-2	Introduction	Figure 7.2.8-1: Scenic Areas with Established Visual Quality Objectives Figure 7.2.8-2: Access Management Plan for the Vanderhoof Forest District Figure 7.2.8-4: Visual Resources Local and Regional Study Areas Table 7.2.8-1: Visual Sensitivity Units Table 7.2.8-2: Established Visual Quality Objectives for Scenic Areas Table 7.2.8-3: Visual Absorption Capacity Table 7.2.8-4: Recreation Sensitivity and Significance Ratings Table 7.2.8-5: Public Campgrounds and Trails within Visual Resources Study Areas Table 7.2.8-6: Management Designations Regulating Access to Visual Resources
1170	B	7.2.8.2	144	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and …	5	B	7.2.8.2	7.2.8-14	Valued Component Baseline	Figure 7.2.8-5: Profile Graph of the Upper Chedakuz Creek Valley Photo 7.2.8-1: View from the Kluskus-Ootsa FSR onto the Davidson Creek Basin Table 7.2.8-7: Photo Viewpoint Baseline Views Carried Through to the Effects Assessment Table 7.2.8-8: Landscape Rating for Photo Viewpoints carried through to the Effects Assessment
1171	B	7.2.8.2	144	Valued Component Baseline	… the source of the information;	5	B	7.2.8.1, Subsection 7.2.8.1.1	7.2.8-1	Introduction	
1172	B	7.2.8.2	144	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	7.2.8.2	7.2.8-14	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)

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1173	B	7.2.8.2	144	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	7.2.8.1, Subsection 7.2.8.1.1.3	7.2.8-12	Introduction	
1174	B	7.2.8.3	144	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	7.2.8.3	7.2.8-18	Potential Effects of the Proposed Project and Proposed Mitigation	Figure 7.2.8-6: Rationale for Site Selection: Transmission Line Figure 7.2.8-7: Rationale for Site Selection: Mine Site Table 7.2.8-9: Evaluation Sites: Location, Visibility, and Rationale for Site Selection
1175	B	7.2.8.3	144	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	7.2.8.3	7.2.8-18	Potential Effects of the Proposed Project and Proposed Mitigation	
1176	B	7.2.8.3	144	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	7.2.8.3, Subsection 7.2.8.3.3	7.2.8-18 7.2.8-54	Potential Effects of the Proposed Project and Proposed Mitigation	Table 7.2.8-10: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Visual Resources during Mine Site Development
1177	B	7.2.8.3	144	Potential Effects of the Proposed Project and Proposed Mitigation	The determination of residual effects on the identified visual resources is conducted by identifying the areas from which the proposed Project components can be observed (Project viewshed) and identifying potential receptors within those areas. A visibility assessment will be conducted using 3D viewshed modelling. Input data are based on the Digital Elevation Model (DEM) from the NTS, which provides 3D topographic information. The viewshed analysis identifies areas that can be seen from the specific viewpoints and takes into account the elevation of various Project structures.	5	B	7.2.8.3, Subsection 7.2.8.3.1 Subsection 7.2.8.1.1.2	7.2.8-18 7.2.8-9	Potential Effects of the Proposed Project and Proposed Mitigation Analytical Tools and Methods	Photo 7.2.8-2: View of the Stellako River Valley crossing point near the existing transmission lines as seen from an aircraft Photo 7.2.8-3: View East along Nithi Road toward Nithi Mountain (VP-12) Photo 7.2.8-4: North Section of Tahultzu Lake with High Recreation Significance as seen from an aircraft Photo 7.2.8-5: Downstream View of the Nechako River Valley from the Greer Creek Recreation Area Photo 7.2.8-6: High Recreation Significance - Chief Gray Lake/Hobson Lake as seen from an aircraft Photo 7.2.8-7: View Southeast, Viewpoint in the Brewster Lake Recreation Site Photo 7.2.8-8: Chedakuz Lake High Recreation Significance Area as seen from an aircraft Photo 7.2.8-9: View toward the Mine Site – Tatelkuz Lake Ranch Resort (VP-01) Photo 7.2.8-10: View in the Direction of the Mine Site from Tatelkuz Lake Photo 7.2.8-11: View toward the Mine Site from the Crossing Point of the Fresh Water Pipeline and the Messue Wagon Road Trail Photo 7.2.8-12: View towards Mount Davidson – Tatelkus Lake IR 28 (VP-02) Photo 7.2.8-13: Snake Lake Photo 7.2.8-14: View from Top Lake toward the Fawnie Range (VP-03) Photo 7.2.8-15: View toward the West-facing Slopes of Mount Davidson (VP-05) Photo 7.2.8-16: View from Kuyakuz Lake toward the Fawnie Range (VP-04) Figure 7.2.8-8: Potential Interaction with Project Activities (Stellako River, Nithi Mountain) Figure 7.2.8-9: Potential Interaction with Project Activities (Cheslatta Trail Crossing)

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											Figure 7.2.8-10: Potential Interaction between Visual Resources and Project Activities (Tahultzu Lake, Nechako River) Figure 7.2.8-11: Potential Interaction with Project Activities (Chief Gray Lake, Hobson Lake) Figure 7.2.8-12: Potential Interaction with Project Activities (Brewster Lake) Figure 7.2.8-13: Potential Interaction with Project Activities (Tatelkuz Lake West Bank) Figure 7.2.8-14: Viewpoint 01 from Tatelkuz Lake Lodge Towards Proposed Mine Site Figure 7.2.8-15: Potential Interaction with Project Activities (Tatelkuz Lake East Bank) Figure 7.2.8-16: Viewpoint 02 from Homestead Towards Proposed Mine Site Figure 7.2.8-17: Potential Interaction with Project Activities (Top Lake, Mount Davidson) Figure 7.2.8 18: Potential Interaction with Project Activities (Kuyakuz Lake) Figure 7.2.8-19: Viewpoint 04 from Kuyakuz Lake Towards Proposed Mine Site
1178	B	7.2.8.4	144	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation; • Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	7.2.8.4	7.2.8-59	Significance of Residual Effects	Table 7.2.8-11: Summary of Residual Effects Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects Table 7.2.8-14: Summary of Significance of Residual Effects
1179	B	7.2.8.5	144	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; • Assess potential cumulative effects; and	5	B	7.2.8.5	7.2.8-63	Cumulative Effects	Table 7.2.8-15: Spatial Overlap by Project/Activity in the Visual Resources RSAs Table 7.2.8-16: Spatial Overlap by Project/Activity for Residual Effects Higher than Not Significant (Negligible) Figure 7.2.8-20: Projects and Human Activities Included in the Cumulative Effects Assessment (Stellako River Crossing) Figure 7.2.8-21: Projects and Human Activities Included in the Cumulative Effects Assessment (Cheslatta Trail Crossing) Figure 7.2.8-22: Projects and Human Activities Included in the Cumulative Effects Assessment (Nechako River Crossing) Figure 7.2.8-23: Projects and Human Activities Included in the Cumulative Effects Assessment (Brewster Lake) Figure 7.2.8-24: Projects and Human Activities Included in the Cumulative Effects Assessment – (Tatelkuz Lake)
1180	B	7.2.8.5	144	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 7.2.8.4 above.	5	B	7.2.8.5, Subsection 7.2.8.5.3	7.2.8-64	Cumulative Effects	Table 7.2.8-17: Summary of Significance of Cumulative Effects

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1181	B	7.2.8.6	144	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	7.2.8.6	7.2.8-72	Limitations	
1182	B	7.2.8.7	144	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	7.2.8.7	7.2.8-72	Conclusion	
1183	B	7.3	144	Summary of Assessment of Social Effects	This section of the Application will present the summary of the assessment of social effects in the format of Table 7.3-1.	5	B	7.3	7.3-1	Summary of Assessment of Social Effects	Table 7.3-1: Summary of Assessment of Potential Social Effects Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1184	**B**	**8**	**146**	**ASSESSMENT OF POTENTIAL HERITAGE EFFECTS**	This section of the Application will present the assessment of heritage effects. The assessment for each VC includes a description of the rationale and baseline information conducted to select the VC, discussion of potential effects of the proposed Project and proposed mitigation, and an analysis of residual effects significance. The VCs proposed for Heritage Resources include archaeological sites, historic sites, and paleontological resources. Section 8.3 will present a summary of the heritage effects assessment results. The Proponent has retained the services of a consulting archaeologist to conduct an Archaeological Impact Assessment (AIA) consistent with the BC Archaeological Impact Assessment Guidelines (Government of BC, 1998). AIAs for the proposed Project were conducted under permits issued by the Archaeology Branch.						Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1185	B	8.1	146	Heritage Baseline	This section of the Application will present the heritage baseline information for the LSA and RSA. The heritage baseline includes archaeology, historical heritage (including structures of architectural significance), and paleontological resources. A key starting point for research is the baseline inventory, which draws on analysis of archaeological and historical records.	5	B	8.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 8.1-1: Heritage Resources Baseline Study Area Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1186	B	8.1	146	Heritage Baseline	The heritage baseline study methods include two key components, a baseline inventory of known heritage resources, and an AIA. The baseline inventory consists of: • A data-gap analysis and desktop review of available archaeological, historical heritage, and paleontological information relevant to the study area (within or adjacent to the proposed Project) – this is equivalent to an Archaeological Overview Assessment as defined in the British Columbia Archaeological Impact Assessment Guidelines (Government of BC, 1998);	5	B	8.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1187	B	8.1	146	Heritage Baseline	• Determining the number and extent of previous archaeological studies within the study area, including those which encountered no heritage resources;	5	B	8.1, Subsection 8.1.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1188	B	8.1	146	Heritage Baseline	• Creating a model of archaeological site potential for the proposed Project locality which establishes three classes of lands with archaeological site potential (low, moderate, high); lands with moderate to high archaeological potential requires further (in-field) assessment; and	5	B	8.1, Subsection 8.1.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1189	B	8.1	146	Heritage Baseline	• Including the following sources: o Published and unpublished ethnographic, archaeological, and historical literature for the Nechako-Blackwater drainage areas;	5	B	8.1, Subsection 8.1.1	8-1	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1190	B	8.1	146	Heritage Baseline	o Geo-spatial data for documented heritage (i.e., archaeological and historical sites) in the vicinity of the proposed Project area acquired from an electronic database (the Provincial Heritage Register) maintained by the Archaeology Branch;	5	B	8.1, Subsection 8.1.1	8-1	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1191	B	8.1	147	Heritage Baseline	o The Vanderhoof District office of BC MFLNRO for information on lands covered in the past by archaeological assessments for forestry developments in their district;	5	B	8.1, Subsection 8.1.1	8-1	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1192	B	8.1	147	Heritage Baseline	o Archaeology Branch for other kinds of archaeological assessments in this region including any available archaeological potential models for this area that are not currently available via Remote Access to Archaeological Data;	5	B	8.1, Subsection 8.1.1	8-2	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1193	B	8.1	147	Heritage Baseline	o Mapped biophysical data for localized information pertinent to the assessment of archaeological potential values in this region, including bedrock geology, surface sediments and/or soil classification, and BGC zonation; and	5	B	8.1, Subsection 8.1.1	8-2	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1194	B	8.1	147	Heritage Baseline	o The Land Tenure Branch, BC MFLNRO, and the Geological Survey of Canada contacted for information regarding palaeontology for the proposed Project footprint.	5	B	8.1, Subsection 8.1.1	8-2	Heritage Baseline	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1195	B	8.2	147	Heritage Effects Assessment	This section of the Application will present the identification and selection of heritage valued components following the methods described in Section 4.2. This section will also present the assessment of effects for the proposed valued components following the methods described in Section 4.3.	5	B	8.2	8-8	Heritage Effects Assessment	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1196	B	8.2.1	147	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for Heritage Resources.	5	B	8.2, Subsection 8.2.1	8-8	Heritage Effects Assessment	Table 8.2-1: Candidate Valued Component Rationale Table 8.2-2: Evaluation of Candidate Valued Components Table 8.2-3: Selected Valued Components and Rationale of Indicators and/or Factor Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1197	B	8.2.2	147	Archaeological Sites		5	B	8.2.2	8-10	Archaeological Sites	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1198	B	8.2.2.1	147	Introduction	This subsection will describe the approach and ...	5	B	8.2.2.1	8-10	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1199	B	8.2.2.1	147	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	8.2.2.1, Subsection 8.2.2.1.1	8-10	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1200	B	8.2.2.2	147	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	8.2.2.2, Subsection 8.2.2.2.1	8-14	Valued Component Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Figure 8.2-1: Heritage Resources EA Study Area Figure 8.2-2: Mine Site – Archaeological Survey Coverage and Archaeological Sites

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											Figure 8.2-3: Mine Site – Archaeological Survey Coverage and Cultural Heritage Resources Figure 8.2-4: Transmission Line – Archaeological Survey Coverage and Cultural Heritage Locations Figure 8.2-5: Transmission Line and Cheslatta Trail – Archaeological Survey Coverage Figure 8.2-6: Transmission Line, Tatelkuz Lake Ranch Reroute and Messue Trail – Archaeological Survey Coverage and Results Figure 8.2-7: Transmission Line and Stellako River Reroute – Archaeological Survey Coverage and Results Figure 8.2-8: Fresh Water Supply System and Messue Trail (FhSe-43) – Archaeological Survey Coverage Table 8.2-4: Project AIA Results – Archaeological Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1201	B	8.2.2.2	147	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	8.2.2.2, Subsection 8.2.2.2.2	8-14	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1202	B	8.2.2.2	147	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	8.2.2.2, Subsection 8.2.2.2.3	8-14	Valued Component Baseline	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1203	B	8.2.2.3	147	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	8.2.2.3	8-25	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-5: Potential Project Effects on Archaeological Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1204	B	8.2.2.3	148	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	8.2.2.3, Subsection 8.2.2.3.5	8-27	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-6: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1205	B	8.2.2.3	148	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above. Effects on archaeological sites will potentially occur by land-altering activities associated with the proposed Project and increased general activities in the larger area. Archaeological sites requiring protection and/or mitigation are identified during the AIA and managed accordingly. If the archaeological sites are protected and/or mitigated there will be no residual effects. Archaeological sites not identified during the AIA might be encountered during construction and potentially operations. If any sites are identified, they are managed through the proposed Archaeology and Heritage Resources Management Plan (Section 12.2). The plan guides the identification, recording, assessment, consultation, and avoidance and/or data recovery mitigation options.	5	B	8.2.2.3, Subsection 8.2.2.3.6	8-27	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-7: Mitigation Measures on Archaeological Sites Table 8.2-8: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Archaeological Sites of the Land during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1206	B	8.2.2.4	148	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	8.2.2.4	8-32	Residual Effects and their Significance	Table 8.2-9: Summary of Residual Effects for Archaeological Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1207	B	8.2.2.4	148	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	8.2.2.4, Subsection 8.2.2.4.1	8-32	Residual Effects and their Significance	Table 8.2-10: Residual Effects Assessment by Project Phase for Archaeological Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1208	B	8.2.2.5	148	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	8.2.2.5	8-33	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1209	B	8.2.2.5	148	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1210	B	8.2.2.5	148	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 8.2.2.4 above.	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1211	B	8.2.2.6	148	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	8.2.2.6	8-33	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1212	B	8.2.2.7	149	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	8.2.2.7	8-34	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1213	B	8.2.3	149	Historic Sites		5	B	8.2.3	8-34	Historic Sites	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1214	B	8.2.3.1	149	Introduction	This subsection will describe the approach and ...	5	B	8.2.3.1	8-34	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1215	B	8.2.3.1	149	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	8.2.3.1, Subsection 8.2.3.1.1	8-35	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1216	B	8.2.3.2	149	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	8.2.3.2, Subsection 8.2.3.2.1	8-35	Valued Component Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17) Table 8.2-11: Proposed Project AIA Results – Historical Heritage Sites Table 8.2-12: Project AIA Results – Cultural Heritage Resources Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1217	B	8.2.3.2	149	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	8.2.3.2, Subsection 8.2.3.2.2	8-36	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1218	B	8.2.3.2	149	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	8.2.3.2, Subsection 8.2.3.2.3	8-36	Valued Component Baseline	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1219	B	8.2.3.3	149	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	8.2.3.3	8-40	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-13: Potential Project Effects on Historical Heritage Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1220	B	8.2.3.3	149	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	8.2.3.3, Subsection 8.2.3.3.5	8-42	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-14: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1221	B	8.2.3.3	149	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above. Effects on historical heritage (including structures of architectural significance) will potentially occur by land-altering activities associated with the proposed Project and increased general activities in the larger area. Heritage sites requiring protection and/or mitigation are identified during the AIA and managed accordingly. If the historical heritage sites are protected and/or mitigated there will be no residual effects. Historical heritage sites not identified during the AIA might be encountered during construction and potentially operations. If any sites are identified, they are managed through the proposed EMPs (Section 12.2). The plan guides the identification, recording, assessment, consultation, and avoidance and/or data recovery mitigation options.	5	B	8.2.3.3, Subsection 8.2.3.3.6	8-43	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-15: Mitigation Measures for Historical Heritage and CHR Sites Table 8.2-16: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Historic Heritage Sites during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1222	B	8.2.3.4	150	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	8.2.3.4	8-48	Residual Effects and their Significance	Table 8.2-17: Summary of Residual Effects for Historic Sites and CHR Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1223	B	8.2.3.4	150	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	8.2.3.4, Subsection 8.2.3.4.1	8-48	Residual Effects and their Significance	Table 8.2-18: Residual Effects Assessment by Project Phase for Historic Heritage Sites and CHR Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1224	B	8.2.3.5	150	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	8.2.3.5	8-49	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1225	B	8.2.3.5	150	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1226	B	8.2.3.5	150	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 8.2.3.4 above.	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1227	B	8.2.3.6	150	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	8.2.3.6	8-49	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1228	B	8.2.3.7	150	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	8.2.3.7	8-50	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1229	B	8.2.4	150	Paleontological Resources		5	B	8.2.4	8-50	Paleontological Resources	
1230	B	8.2.4.1	150	Introduction	This subsection will describe the approach and ...	5	B	8.2.4.1	8-50	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1231	B	8.2.4.1	150	Introduction	...applicable regulatory framework for the assessment of the VC.	5	B	8.2.4.1, Subsection 8.2.4.1.1	8-51	Introduction	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1232	B	8.2.4.2	150	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	8.2.4.2	8-52	Valued Component Baseline	Table 8.2-19: Project Palaeontology Assessment Results – Fossil Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1233	B	8.2.4.2	150	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	8.2.4.2, Subsection 8.2.4.2.1	8-53	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1234	B	8.2.4.2	150	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	8.2.4.2, Subsection 8.2.4.2.2	8-53	Valued Component Baseline	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1235	B	8.2.4.3	151	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, and closure phases;	5	B	8.2.4.3	8-54	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-20: Potential Project Effects on Palaeontological Sites Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1236	B	8.2.4.3	151	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	8.2.4.3, Subsection 8.2.4.3.5	8-56	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-21: Potential Adverse Effects Resulting from Past, Present and Future Projects and Activities Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1237	B	8.2.4.3	151	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above. Effects on paleontological sites will potentially occur by land-altering activities associated with the proposed Project and increased general activities in the larger area. Paleontological sites requiring protection and/or mitigation are identified during the AIA and managed accordingly. If the paleontological sites are protected and/or mitigated there will be no residual effects. Paleontological sites not identified during the AIA might be encountered during construction and potentially operations. If any sites are identified, they are managed through the proposed environmental management plans (Section 12.2). These plans guide the identification, recording, assessment, consultation, and avoidance and/or data recovery mitigation options.	5	B	8.2.4.3, Subsection 8.2.4.3.6	8-57	Potential Effects of the Proposed Project and Proposed Mitigation	Table 8.2-22: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Paleontological Resources during Mine Site Development Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1238	B	8.2.4.4	151	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	8.2.4.4	8-58	Residual Effects and Significance	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1239	B	8.2.4.4	151	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	8.2.4.4	8-58	Residual Effects and Significance	Table 8.2-23: Residual Effects Assessment by Project Phase on Palaeontological Resources Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)

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1240	B	8.2.4.5	151	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	8.2.4.5	8-58	Cumulative Effects	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1241	B	8.2.4.5	151	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1242	B	8.2.4.5	151	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 8.2.4.4 above.	n/a	n/a	n/a	n/a	n/a	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1243	B	8.2.4.6	152	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	8.2.4.6	8-59	Limitations	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1244	B	8.2.4.7	152	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	8.2.4.7	8-59	Conclusion	Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1245	B	8.3	152	Summary of Assessment of Heritage Effects	This section of the Application will present the summary of the assessment of heritage effects in the format of Table 8.3-1.	5	B	8.3	8-59	Summary of Assessment of Heritage Effects	Table 8.3-1: Summary of Assessment of Potential Heritage Effects Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
1246	**B**	**9**	**153**	**ASSESSMENT OF POTENTIAL HEALTH EFFECTS**	This section of the Application will present the assessment of health effects. Section 9.1 will describe the health baseline conditions of the proposed Project. The assessment for each VC includes a description of the rationale and baseline information conducted to select the VC, discussion of potential effects of the proposed Project and proposed mitigation, and an analysis of residual effects significance. The VCs proposed for Human Health include environmental exposures and worker safety and health. Section 9.3 will present a summary of the health effects assessment results.						
1247	B	9.1	153	Health Baseline	This section of the Application will present the health baseline information for the LSA and RSA. The health effects baseline is an overview of health status of potentially affected populations in the LSA and RSA, including the regions from where employment is likely to be drawn.	5	B	9.1	9-1	Health Baseline	Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Figure 9.1-1: Economic, Social and Human Health Local Study Area Figure 9.1-2: Local Health Authorities in the Socio-economic Regional Study Area Figure 9.1-3: Human Health Receptor Locations Table 9.1-1: Standardized Mortality(1) Ratios for Selected Causes of Death for LHAs in the HHSA and in BC (2011)
1248	B	9.1	153	Health Baseline	The overview is derived from data published for the province and local health authorities by BC Vital Statistics Agency and Statistics Canada (SC).	5	B	9.1, Subsection 9.1.3.5	9-5	Health Baseline	
1249	B	9.1	153	Health Baseline	Health status and mortality data are interpreted to identify sensitivities of the potentially affected populations (e.g., if men or women have compromised health status).	5	B	9.1, Subsection 9.1.3.10	9-7	Health Baseline	
1250	B	9.2	153	Health Effects Assessment	This section of the Application will present the identification and selection of health VCs following the methods described in Section 4.2. This section will also present the assessment of effects for the proposed VCs following the methods described in Section 4.3.	5	B	9.2	9-22	Health Effects Assessment	

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1251	B	9.2.1	153	Identification and Selection of Valued Components	This subsection will present the rationale and justification for Candidate VCs, Selected VCs and Candidate VCs not selected as VCs for Human Health.	5	B	9.2.1	9-22	Identification and Selection of Valued Components	Table 9.2-1: Candidate Valued Component Rationale Table 9.2-2: Evaluation of Candidate Valued Components Table 9.2-3: Selected Valued Components and Rationale of Indicators and/or Factor Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
1252	B	9.2.2	153	Environmental Exposures		5	B	9.2.2	9-27	Environmental Exposures	
1253	B	9.2.2.1	153	Introduction	This subsection will describe the approach and ...	5	B	9.2.2.1	9-27	Introduction	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1254	B	9.2.2.1	153	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	9.2.2.1, Subsection 9.2.2.1.2	9-28	Introduction	Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18) Table 9.2-4: Summary of Human Health Receptor Characteristics for the Project Table 9.2-5: Human Health Exposure Pathways
1255	B	9.2.2.2	153	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	9.2.2.2	9-32	Valued Component Baseline	Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4) Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1256	B	9.2.2.2	153	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	9.2.2.2, Subsection 9.2.2.2.1	9-32	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (Volume 4)
1257	B	9.2.2.2	153	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	9.2.2.2, Subsection 9.2.2.2.2	9-32	Valued Component Baseline	Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)
1258	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	9.2.2.3	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 5.2.2A: Noise Modelling Report (AMEC E&I) (App Volume 15) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1259	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	9.2.2.3, Subsection 9.2.2.3.3	9-37	Potential Effects of the Proposed Project and Proposed Mitigation	
1260	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	9.2.2.3, Section 9.2.2.3.4	9-37	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Table 9.2-6: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce

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											Potential Effects on Environmental Exposures during Mine Site Development
1261	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	The following steps are followed to assess the potential for health effects as a result of environmental exposures: • Identify components of the proposed Project where potential environment exposure pathways exist, considering dependent discipline assessments, such as air quality, noise and vibration, surface water and sediment quality, soil quality, fish and vegetation;	5	B	9.2.2.3	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1262	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Predict or evaluate the likely effects through a quantitative human health risk assessment, considering dependent discipline assessments (e.g., air quality, drinking water quality, and contamination of country foods);	5	B	9.2.2.3	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	
1263	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Compare the baseline and predicted exposure levels presented in the relevant biophysical effects assessment for each contaminant of potential concern to relevant toxicological reference values to estimate the risks to human health;	5	B	9.2.2.3, Subsection 9.2.2.3.2	9-35	Potential Effects of the Proposed Project and Proposed Mitigation	
1264	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify permanent, temporary or seasonal residents or land users, including Aboriginal groups, in the zone of potential influence using relevant information presented in the economic effects assessment, social effects assessment, human health risk assessment; Aboriginal groups background information and non-traditional land use baseline to determine if any valid pathways of exposure potentially exist;	5	B	9.2.2.3	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1265	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Dustfall and deposition of contaminants of potential concern to soils will be modelled, such that future concentrations in fish, wild game, and plant tissue can be predicted, and carried through to the human health risk assessment;	5	B	9.2.2.3, Subsection 9.2.2.3.2.2	9-36	Potential Effects of the Proposed Project and Proposed Mitigation	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1266	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine the duration of identified pathway exposures (immediate, short-term or long-term) and the magnitude of people potentially exposed;	5	B	9.2.2.3	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	
1267	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Compare health-based criteria (e.g., noise at 55 decibel A scale (dBA) is potentially annoying) for potential pathway exposure durations;	5	B	9.2.2.3, Subsection 9.2.2.3.1	9-34	Potential Effects of the Proposed Project and Proposed Mitigation	
1268	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine any potential for health effects to occur, taking into account any exceedances of health-based criteria or the presence of any sensitive populations, which were identified in the human health baseline study;	5	B	9.2.2.3, Subsection 9.2.2.3.2	9-35	Potential Effects of the Proposed Project and Proposed Mitigation	
1269	B	9.2.2.3	154	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine if effects on health status could be observed on the individual, local or regional level;	5	B	9.2.2.3, Subsection 9.2.2.3.2	9-35	Potential Effects of the Proposed Project and Proposed Mitigation	
1270	B	9.2.2.3	155	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify feasible mitigation or enhancement measures;	5	B	9.2.2.3, Subsection 9.2.2.3.4	9-37	Potential Effects of the Proposed Project and Proposed Mitigation	
1271	B	9.2.2.3	155	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine the potential significance of any residual environmental effect following the implementation of mitigation or enhancement; and	5	B	9.2.2.4	9-38	Residual Effects and their Significance	

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1272	B	9.2.2.3	155	Potential Effects of the Proposed Project and Proposed Mitigation	• The Application will provide an outline of a monitoring plan for water, plants and animals that maybe consumed in the area of the mine site and/or downstream of the mine site. The plan will outline the proposed species to be sampled including but not limited to whitefish, moose and berry producing plant species, the general location of sampling, duration and frequency of monitoring including pre-operations and throughout the mine life and propose how the plan will be developed, implemented and results communicated with First Nations, community members and Agencies prior to the initiation of any monitoring.	5	B	9.2.2.3, Subsection 9.2.2.3.4	9-37	Potential Effects of the Proposed Project and Proposed Mitigation	
1273	B	9.2.2.4	155	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	9.2.2.4	9-38	Residual Effects and their Significance	Appendix 5.2.2A: Noise Modelling Report (AMEC E&I) (App Volume 15) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
1274	B	9.2.2.4	155	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	9.2.2.4	9-38	Residual Effects and their Significance	Table 9.2-7: Significance of Residual Project Effects for Environmental Exposures
1275	B	9.2.2.5	155	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects;	5	B	9.2.2.5	9-40	Cumulative Effects	
1276	B	9.2.2.5	155	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1277	B	9.2.2.5	155	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 9.2.2.4 above.	n/a	n/a	n/a	n/a	n/a	
1278	B	9.2.2.6	155	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	9.2.2.6	9-40	Limitations	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15)
1279	B	9.2.2.7	155	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	9.2.2.7	9-42	Conclusion	
1280	B	9.2.3	156	Worker Safety and Health		5	B	9.2.3	9-42	Worker Safety and Health	
1281	B	9.2.3.1	156	Introduction	This subsection will describe the approach and ...	5	B	9.2.3.1	9-42	Introduction	
1282	B	9.2.3.1	156	Introduction	… applicable regulatory framework for the assessment of the VC.	5	B	9.2.3.1, Subsection 9.2.3.1.1	9-42	Introduction	
1283	B	9.2.3.2	156	Valued Component Baseline	This subsection will: • Provide detailed baseline information on the VC and the source of the information;	5	B	9.2.3.2	9-43	Valued Component Baseline	
1284	B	9.2.3.2	156	Valued Component Baseline	• Identify past, present or future projects/activities that may impact the VC; and	5	B	9.2.3.2, Subsection 9.2.3.2.1	9-44	Valued Component Baseline	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (AMEC E&I) (App Volume 4)
1285	B	9.2.3.2	156	Valued Component Baseline	• Describe traditional ecological or community knowledge, where available.	5	B	9.2.3.2	9-43	Valued Component Baseline	

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1286	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	This subsection will: • Identify and analyze potential adverse effects resulting from the proposed Project's construction, operations, closure and post-closure phases;	5	B	9.2.3.3	9-46	Potential Effects of the Proposed Project and Proposed Mitigation	
1287	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify and describe any potential adverse effects from other known past, present, certain and reasonably foreseeable future project or activities in the proposed Project area; and	5	B	9.2.3.3, Subsection 9.2.3.3.4	9-49	Potential Effects of the Proposed Project and Proposed Mitigation	
1288	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Describe measures to mitigate the potential adverse effects identified above.	5	B	9.2.3.3, Subsection 9.2.3.3.5	9-49	Potential Effects of the Proposed Project and Proposed Mitigation	Table 9.2-8: Mitigation Measures and Effectiveness of Mitigation to Avoid or Reduce Potential Effects on Worker Safety and Health during Mine Site Development
1289	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	The following steps are followed to assess the effects on worker safety and health: • Identify the hazards that could affect worker safety and health;	5	B	9.2.3.3	9-46	Potential Effects of the Proposed Project and Proposed Mitigation	
1290	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Quantitatively predict change in hazard risk (to injury and disease) for employees in the employment catchment by comparing injury rates and workers compensation insurance base rates for the industry sectors that potential employees are currently employed in. Base rates are used as an indicator of occupational injury and disease;	5	B	9.2.3.3, Subsection 9.2.3.3.2.3	9-48	Potential Effects of the Proposed Project and Proposed Mitigation	
1291	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine any potential for health effects to occur, taking into account presence of any sensitive populations identified in the human health baseline study;	5	B	9.2.3.3	9-46	Potential Effects of the Proposed Project and Proposed Mitigation	
1292	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Identify feasible mitigation or enhancement measures; and	5	B	9.2.3.3, Subsection 9.2.3.3.5	9-49	Potential Effects of the Proposed Project and Proposed Mitigation	
1293	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	• Determine the potential significance of any residual environmental effect following the implementation of mitigation or enhancement.	5	B	9.2.3.4	9-51	Residual Effects and their Significance	
1294	B	9.2.3.3	156	Potential Effects of the Proposed Project and Proposed Mitigation	Surface mining operations are safer than many heavy industries in BC and working conditions will likely improve for most employees. Sensitive populations include young workers, Aboriginal groups workers, and employees previously without employment or in low risk employment. Workers exposed to multiple hazards, such as maintenance workers, are also sensitive subgroups (BC Ministry of Energy, Mines and Petroleum Resources, 2008).	5	B	9.2.3.3	9-46	Potential Effects of the Proposed Project and Proposed Mitigation	
1295	B	9.2.3.4	157	Residual Effects and their Significance	This subsection will: • Identify and describe any residual effects after mitigation;	5	B	9.2.3.4	9-51	Residual Effects and their Significance	
1296	B	9.2.3.4	157	Residual Effects and their Significance	• Where residual adverse effects have been identified, provide an assessment of the significance of those residual effects considering context, magnitude, geographic extent, duration, reversibility, frequency; • Assess the likelihood of the effect; • Assess the significance of the residual effects; and • Assess/discuss the level of confidence and risk in the determination of significance and likelihood of the residual effect.	5	B	9.2.3.4	9-51	Residual Effects and their Significance	Table 9.2-9: Significance of Residual Project Effects for Worker Health and Safety
1297	B	9.2.3.5	157	Cumulative Effects	This subsection will: • Determine the need for assessing cumulative effects; and	5	B	9.2.3.5	9-51	Cumulative Effects	

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1298	B	9.2.3.5	157	Cumulative Effects	• Assess potential cumulative effects; and	n/a	n/a	n/a	n/a	n/a	
1299	B	9.2.3.5	157	Cumulative Effects	• If applicable, assess cumulative effects and evaluate these effects using the same criteria and steps as noted in Section 9.2.3.4 above.	n/a	n/a	n/a	n/a	n/a	
1300	B	9.2.3.6	157	Limitations	This subsection will present assumptions and limitations relative to the assessment of Project effects and the assessment of cumulative effects.	5	B	9.2.3.6	9-51	Limitations	
1301	B	9.2.3.7	157	Conclusion	This subsection will provide a conclusion regarding the significance of residual effects and cumulative effects if applicable.	5	B	9.2.3.7	9-52	Conclusion	
1302	B	9.3	157	Summary of Assessment of Health Effects	This section of the Application will present the summary of the assessment of human health in the format of Table 9.3-1.	5	B	9.3	9-52	Summary of Assessment of Health Effects	Table 9.3-1: Summary of Assessment of Potential Human Health Effects
1303	**B**	**10**	**158**	**ACCIDENTS OR MALFUNCTIONS**							
1304	B	10	158	ACCIDENTS OR MALFUNCTIONS	This section of the Application will identify potential accidents, malfunctions, and unplanned events that could occur during any phase of the proposed Project involving any project component or activity. The Application will assess the likelihood and circumstances under which these events could occur, and the environmental effects and/or consequences that may result from such events, considering mitigation or contingency plans in place and risk if they are not fully effective. The Application will describe how each potential accident, malfunction, or unplanned event would be managed or mitigated. Accident and malfunctions considered for the Application include but not be limited to the following:	5	B	10.1	10-1	ACCIDENTS OR MALFUNCTIONS	Figure 10.7.2-1: Risk Matrix Figure 10.8.1-1: Location of the Blackwater Mine Site and Associated Infrastructure Figure 10.8.1-2: Terrestrial Ecosystems Affected by Mine Site Development Table 10.7.2-1: Definitions for Likelihood of Occurrence of an Accident or Malfunction Table 10.7.2-2: Definitions for Consequence of Occurrence of an Accident or Malfunction Table 10.7.2-3: Definitions for Overall Risk Scores Table 10.7.2-4: Accidents and Malfunctions Risk Summary
1305	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Spills of hazardous substances stored on site (reagents, fuels, contained liquid waste) possible during a refuelling operation;	5	B	10, Subsection 10.8.2.9	10-51	ACCIDENTS OR MALFUNCTIONS	
1306	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Breach or failure of tailings dam or other containment structure;	5	B	10, Subsection 10.8.1.3	10-26	ACCIDENTS OR MALFUNCTIONS	Figure 10.8.1-3: Site General Arrangement Showing TSF and Downstream Water Control Table 10.8.1-1: TSF Summary Annual Average Water Quality Predictions: Worst Case
1307	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Pit wall failure and failure of the waste rock dumps and low grade stockpile;	5	B	10, Subsection 10.8.1.1, Subsection 10.8.1.2	10-17 10-20	ACCIDENTS OR MALFUNCTIONS	
1308	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Tailings pipeline leakage or failure;	5	B	10, Subsection 10.8.2.5	10-43	ACCIDENTS OR MALFUNCTIONS	
1309	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Accidental discharge of off-specification effluent from sewage treatment plant;	5	B	10, Subsection 10.8.3.1	10-55	ACCIDENTS OR MALFUNCTIONS	
1310	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Power outages;	5	B	10, Subsection 10.8.3.3	10-58	ACCIDENTS OR MALFUNCTIONS	

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1311	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Fires or explosions that could potentially be caused during construction or operations, such as brush fires caused by clearing and construction activities;	5	B	10, Subsection 10.8.3.2	10-57	ACCIDENTS OR MALFUNCTIONS	
1312	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Fly rock from blasting;	5	B	10, Subsection 10.8.2.10	10-54	ACCIDENTS OR MALFUNCTIONS	
1313	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Motor vehicle accidents involving construction, maintenance, or transport crews;	5	B	10, Subsection 10.8.2.8	10-50	ACCIDENTS OR MALFUNCTIONS	
1314	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Motor vehicle accidents during transfer and transport of hazardous materials (fuels and other chemicals); and	5	B	10, Subsection 10.8.2.7	10-47	ACCIDENTS OR MALFUNCTIONS	
1315	B	10	158	ACCIDENTS OR MALFUNCTIONS	• Sediment releases into watercourses.	5	B	10, Subsection 10.8.1.6	10-35	ACCIDENTS OR MALFUNCTIONS	
1316	**B**	**11**	**159**	**POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT**							
1317	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	This section of the Application will assess the potential environmental factors that may affect the proposed Project and the predicted effects of those environmental factors. The range of climate conditions, including extreme weather events and climate change is considered. The effect of global climate change on the proposed Project is examined.	5	B	11.1	11-1	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold Ltd.) (App Volume 18)
1318	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	The Application will: • Identify and describe the environmental factors that may adversely affect the proposed Project such as: o Natural hazards (ice jams, …	5	B	11, Subsection 11.9	11-19	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1319	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	…landslides, …	5	B	11, Subsection 11.4	11-3	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1320	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	...avalanches, …	5	B	11, Subsection 11.5	11-6	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1321	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	…freezing, etc.)	5	B	11, Subsection 11.9 Subsection 11.11	11-19 11-22	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1322	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Extreme weather conditions (drought, …	5	B	11, Subsection 11.10	11-20	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1323	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	...flooding);	5	B	11, Subsection 11.9	11-19	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1324	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Natural seismic events (e.g., liquefaction, …	5	B	11, Subsection 11.6	11-7	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Figure 11.6.2-1: 2010 Seismic Hazard Map – Geological Survey of Canada Table 11.6.2-1: Summary of Soil Associations in the Project Study Area

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1325	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	...subsidence, etc.);	5	B	11, Subsection 11.3	11-2	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1326	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Volcanic events;	5	B	11, Subsection 11.7	11-10	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Figure 11.7.3-1: Nazko Cone and the Satah Mountain General Location
1327	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Forest fires;	5	B	11, Subsection 11.8	11-13	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Appendix 11B: Forest Fire Record 1980 to 2012 for the Vanderhoof Forest District (App Volume 18) Figure 11.8.10-1: Vanderhoof Forest District Figure 11.8.1-2: Record of the Total and Average Amount of Hectares Burned by Forest Fires in the Vanderhoof Forest District between 1980 and 2012 (Prince George Fire Centre, 2013a)
1328	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Slope stability and mass wasting events (outflow conditions); and	5	B	11, Subsection 11.4	11-3	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1329	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	o Climate change;	5	B	11, Subsection 11.11	11-22	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	Table 11.11.1-1: Summary of Predicted Climate Change in BC
1330	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	• Identify any changes or effects on the proposed Project that may be caused by the above-mentioned environmental factors, whether the changes or effects occur within or outside of Canada;	5	B	11	11-1	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1331	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	• Identify the likelihood and severity of the changes or effects; and	5	B	11, Subsection 11.3, Subsection 11.4, Subsection 11.5, Subsection 11.6, Subsection 11.7, Subsection 11.8, Subsection 11.9, Subsection 11.10, Subsection 11.11	11-2, 11-3, 11-6, 11-7, 11-10, 11-13, 11-19, 11-20, 11-22	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1332	B	11	159	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	• Identify mitigation measures, including design strategies, planned to avoid or minimize the likelihood and severity of the changes or effects.	5	B	11, Subsection 11.4.2, Subsection 11.5.2, Subsection 11.6.2, Subsection 11.7.2, Subsection 11.8.2, Subsection 11.9.2, Subsection 11.10.2, Subsection 11.11.2	11-4, 11-6, 11-7, 11-11, 11-16, 11-19, 11-21, 11-23	POTENTIAL EFFECTS OF THE ENVIRONMENT ON THE PROJECT	
1333	**B**	**12**	**160**	**SUMMARY OF PROPOSED ENVIRONMENTAL AND OPERATIONAL MANAGEMENT PLANS**							
1334	B	12.1	160	Environmental Management System	This section of the Application will discuss the structure of the EMS. The EMS for the proposed Project is part of the Proponent's overall	6	B	12.1.1	12.1-1	Environmental Management System	Figure 12.1.3-1: Proposed Management Structure Figure 12.1.5-1: EMS Framework

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					corporate management system used to develop and implement its environmental policy, manage its environmental risks, and achieve its environmental performance objectives for the proposed Project. The proposed Project EMS consists of an interrelated set of elements, including organizational structure, planning activities, responsibilities, processes, procedures, practices, and resources. It would be used to manage environmental risks throughout the life cycle of the proposed Project.						
1335	B	12.1	160	Environmental Management System	The Proponent has stated that the highest practicable standards of Environment, Health and Safety (EHS) management are applied during all phases of the proposed Project. High standards would be achieved by developing and implementing an integrated management system that combines environmental, Occupational Health and Safety (OH&S), and community engagement components. To achieve this goal, the integrated management system would include an environmental component that conforms to ISO 14001 and an OH&S component that conforms to the Mines Act (Government of BC, 1996b).	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	
1336	B	12.1	160	Environmental Management System	The Proponent has chosen an integrated management system approach because of inherent overlaps in environmental and OH&S management system elements; for example, actions taken to protect the environment often protect workers' health and safety as well. These approaches would also be applied in community engagement programs that can incorporate local perspectives on social issues. The Emergency and Spill Response Plan, for example, would address spills to the environment, which can also have worker and public safety risks. Similarly, traffic safety and driver training programs can significantly reduce risks to workers, the public, as well as spills to the environment.	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	Table 12.1.5-1: Proponent's Guiding Principles and EMS Elements
1337	B	12.1	160	Environmental Management System	The EMS is intended to be consistent with the Proponent's environmental and social policies and relevant regulatory requirements, permits, and standards. The EMS provides a structured approach to achieving EHS standards for Project operations through a consistent system of planning, implementation, checking, and corrective action, and continual improvement. The senior management review element promotes continual improvement in environmental management performance.	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	Table 12.1.5-2: Consequence Definitions for Environment and Reputation Impact Table 12.1.5-3: Likelihood Definitions for Environment and Reputation Table 12.1.5-4: Risk Matrix Breakdown Figure 12.1.5-2: Risk Matrix
1338	B	12.1	160	Environmental Management System	The Proponent has stated that the EMS would emphasize key stakeholder engagement initiatives for environmental management, including educational and consultation programs with Aboriginal groups and other key stakeholders.	6	B	12.1, Subsection 12.1.5.7	12.1-11	Environmental Management System	
1339	B	12.1	160	Environmental Management System	In general, the EMS would: • Recognize environmental and social responsibility as key corporate priorities;	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	
1340	B	12.1	160	Environmental Management System	• Maintain information on legislative requirements and environmental and social aspects associated with the organization's activities;	6	B	12.1, Subsection 12.1.5.2	12.1-7	Environmental Management System	
1341	B	12.1	160	Environmental Management System	• Facilitate environmental planning through the project life cycle;	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	

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1342	B	12.1	160	Environmental Management System	• Provide a process for achieving targeted performance levels;	6	B	12.1, Subsection 12.1.5.4	12.1-9	Environmental Management System	
1343	B	12.1	161	Environmental Management System	• Assign clear accountability and responsibility for environmental protection and social responsibility to management and employees;	6	B	12.1, Subsection 12.1.5.4	12.1-9	Environmental Management System	
1344	B	12.1	161	Environmental Management System	• Establish and maintain relationships with internal and external stakeholders;	6	B	12.1, Subsection 12.1.5.7	12.1-11	Environmental Management System	
1345	B	12.1	161	Environmental Management System	• Provide appropriate and sufficient resources, including training, to achieve targeted performance levels on an on-going basis;	6	B	12.1, Subsection 12.1.5.5	12.1-10	Environmental Management System	
1346	B	12.1	161	Environmental Management System	• Establish a management process to audit and review the Proponent's EMS and to identify opportunities for improvement of the system and resulting environmental performance.	6	B	12.1, Subsection 12.1.5.10	12.1-13	Environmental Management System	
1347	B	12.1	161	Environmental Management System	• Evaluate environmental and social responsibility performance against the Proponent's policies, objectives and targets, and seek improvement where appropriate; and	6	B	12.1, Subsection 12.1.5.10	12.1-13	Environmental Management System	
1348	B	12.1	161	Environmental Management System	• Establish a management process to audit and review the Proponent's EMS and to identify opportunities for improvement of the system and resulting environmental performance.	6	B	12.1, Subsection 12.1.5.10	12.1-13	Environmental Management System	
1349	B	12.1	161	Environmental Management System	The EMS would be developed before commencing construction in consultation with relevant permitting agencies. The EMS would be designed to ensure a consistent approach to responsible environmental management and promote continual improvement through a Plan-Do-Check-Act (PDCA) cycle.	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	
1350	B	12.1	161	Environmental Management System	The structure of the EMS would include the following four elements: • Planning: defining the scope of the EMS, establishing an environmental policy for the proposed Project, identifying applicable legal and other (non-regulatory) requirements, setting environmental performance objectives, and developing the EMPs; • Implementation: resource allocation and the assignment of roles and responsibilities, environmental management training, internal and external communications, EMS documentation and records and document control, and operating controls, including emergency response activities; • Checking and corrective action: on-going monitoring of environmental performance; inspection and evaluation of environmental management practices, including environmental compliance, and EMS audits; and • Continual improvement: senior operational management review of the EMS and identification of improvements in environmental performance of the proposed Project.	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	
1351	B	12.1	161	Environmental Management System	Objectives and targets for environmental and social performance would be established and reviewed annually. Objectives are typically broader environmental goals, quantifiable where practical, whereas targets are detailed performance requirements that arise from the objectives. Where possible, the targets for environmental and social performance would be specific, measurable, achievable, realistic, and time-bound (SMART). This enables a quantitative evaluation of the effectiveness of the EMPs and the need for performance improvement.	6	B	12.1, Subsection 12.1.5	12.1-3	Environmental Management System	

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1352	B	12.2	162	Environmental Management Plans	This section of the Application will provide a description of the various EMPs that the Proponent has stated may be required to develop for the proposed Project as part of the EMS. EMPs provide the principal means of guiding proper implementation of mitigation as prescribed by permits, approvals, and authorizations as well as Proponent policies. Environmental requirements and commitments set out in the EA are typically consolidated into EMPs. EMPs set out approaches to EHS and social management at each phase of the proposed Project and can be converted to more specific Standard Operating Procedures (SOPs) where required. Project EMPs would be designed to provide an integrated, systematic approach to environmental management and would help deliver assurance to interested parties regarding the phases and activities of the proposed Project.	6	B	12.2	12.2-1	Environmental Management Plans	Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18) Figure 12.2.1-1: TK/TLU Integration Into the Blackwater Project Figure 12.2.1-2: Corporate and Management Structure for the Project Figure 12.2.1-3: Health, Safety, Environment, and Social Responsibility Guiding Principles Table 12.2.1-1: Acts and Regulations Table 12.2.1-2: Master Commitments Table Template Table 12.2.1-3: Selected Valued Components and Indicators and/or Factor by Assessment Pillar Table 12.2.1-4: Application of Environmental Management Plans to Mine Phases Table 12.2.1-5: Proponent Erosion and Sediment Control Commitments
1353	B	12.2	162	Environmental Management Plans	The EMPs will be based on the principle of adaptive management, …	6	B	12.2, Subsection 12.2.1	12.2.1-1	Environmental Management Plans	
1354	B	12.2	162	Environmental Management Plans	...will implement BMPs, and …	6	B	12.2, Subsection 12.2.1	12.2.1-1	Environmental Management Plans	
1355	B	12.2	162	Environmental Management Plans	... will include appropriate environmental management practices described in the Environmental Code of Practice for Metal Mines (EC, 2009) document.	6	B	12.2, Subsection 12.2.1	12.2.1-1	Environmental Management Plans	
1356	B	12.2	162	Environmental Management Plans	This section of the Application will include an overview of individual or consolidated EMPs that will work in conjunction with each other and with other management plans under the EMS, where applicable.	6	B	12.2, Subsection 12.2.1.18.4	12.2.1-33	Environmental Management Plans	
1357	B	12.2	162	Environmental Management Plans	The EMPs will be organized for the construction, operations and closure phases of the proposed Project and will cover the following topics: • Mine Waste Management;	6	B	12.2, Subsection 12.2.1.18.4.17	12.2.1-287	Environmental Management Plans	
1358	B	12.2	162	Environmental Management Plans	• Mine Water Management;	6	B	12.2, Subsection 12.2.1.18.4.18	12.2.1-324	Environmental Management Plans	Figure 12.2.1-38: Proposed Mine Site Facilities (Year 17) with Watershed Boundaries Figure 12.2.1-39: Sediment and Erosion Control – Start of Year -2 Figure 12.2.1-40: Site C Cofferdam and SCP #6 – August of Year -2 Figure 12.2.1-41: Site D Cofferdam and SCP #7 – April of Year -1 Figure 12.2.1-42: Open Pit and East Dump SCP #5 – October of Year -2 Figure 12.2.1-43: Project Catchment Area Boundaries Figure 12.2.1-44: Environmental Control Dam Figure 12.2.1-45: Pit Dewatering System Figure 12.2.1-46: Low-Grade Ore Stockpile Water Management Figure 12.2.1-47: Predicted Pond Volumes for TSF C and D Sites – Average Conditions Table 12.2.1-58: Mine Site Facilities and Year of Construction Table 12.2.1-59: Annual Stochastic Volume of

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											Makeup Water Requirement Table 12.2.1-60: Water Management Design Principles, Risks, and Contingencies for Site Facilities
1359	B	12.2	162	Environmental Management Plans	• Hazardous Materials Management;	6	B	12.2, Subsection 12.2.1.18.4.12	12.2.1-212	Environmental Management Plans	
1360	B	12.2	162	Environmental Management Plans	• Air Quality and Emissions Management;	6	B	12.2, Subsection 12.2.1.18.4.9	12.2.1-184	Environmental Management Plans	Table 12.2.1-32: British Columbia and Canadian Ambient Air Quality Guidelines and Objectives updated at 26 June 2013 in µg/m^3
1361	B	12.2	162	Environmental Management Plans	• Water Quality and Liquid Discharges Management;	6	B	12.2, Subsection 12.2.1.18.4.10	12.2.1-192	Environmental Management Plans	
1362	B	12.2	162	Environmental Management Plans	• Industrial and Domestic Waste Management;	6	B	12.2, Subsection 12.2.1.18.4.11	12.2.1-199	Environmental Management Plans	
1363	B	12.2	162	Environmental Management Plans	• Transportation and Access Management;	6	B	12.2, Subsection 12.2.1.18.4.14	12.2.1-257	Environmental Management Plans	
1364	B	12.2	162	Environmental Management Plans	• Construction Management;	6	B	12.2, Subsection 12.2.1	12.2.1-1	Environmental Management Plans	
1365	B	12.2	162	Environmental Management Plans	• Cyanide Management;	6	B	12.2, Subsection 12.2.1.18.4.19	12.2.1-359	Environmental Management Plans	
1366	B	12.2	162	Environmental Management Plans	• Emergency and Spill Preparedness and Response;	6	B	12.2, Subsection 12.2.1.18.4.13	12.2.1-231	Environmental Management Plans	
1367	B	12.2	162	Environmental Management Plans	• Landscape, Soils and Vegetation Management and Restoration;	6	B	12.2, Subsection 12.2.1.18.4.4	12.2.1-107	Environmental Management Plans	Figure 12.2.1-14: Small-Flowered Lousewort Figure 12.2.1-15: Whitebark Pine Table 12.2.1-21: Soil Volume (m^3) Available for Salvaging at the Project Mine Footprint, Rated According to Suitability for Reclamation Table 12.2.1-22: Species at Risk Documented in or near the Mine Site LSA and RSA Table 12.2.1-23: Summary of Mitigation of Impacts to Whitebark Pine
1368	B	12.2	162	Environmental Management Plans	• Erosion and Sediment Control;	6	B	12.2, Subsection 12.2.1.18.4.1	12.2.1-35	Environmental Management Plans	
1369	B	12.2	162	Environmental Management Plans	• Aquatic Resources Management (including pre- and post-construction phases, fisheries habitat compensation plans for both phases, and monitoring plans for both phases as per requirements of the Fisheries Act (Government of Canada, 1985b));	6	B	12.2, Subsection 12.2.1.18.4.2	12.2.1-39	Environmental Management Plans	Appendix 2.2A: Project Description Supporting Reports (App Volumes 1-3) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 5.1.2.6D: Instream Flow Study (AEMC E&I) (App Volume 12) Figure 12.2.1-4: Freshwater Supply System Layout Table 12.2.1-6: Freshwater Supply System Design Criteria

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											Figure 12.2.1-5: Mitigation Flow Regime for Middle Davidson Creek at FSS Outfall, for Average and Wetter Water Years Figure 12.2.1-6: General Arrangement End of Year -2 Plan Figure 12.2.1-7: General Arrangement End of Year -1 Plan Figure 12.2.1-8: General Arrangement End of Year 1 Figure 12.2.1-9: Mine Site and Facilities Catchment Area Boundaries Figure 12.2.1-10: General Arrangement Closure End of Year 35 Plan Figure 12.2.1-11: Location of Blackwater Project Airstrip Access Road and Associated Stream Crossings Figure 12.2.1-12: Kluskus-Ootsa FSR Upgrade Figure 12.2.1-13: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Fresh Water Pipeline Table 12.2.1-7: Target Flow Regime for Davidson Creek at FSS Outfall for Average or Above Average Water Years Table 12.2.1-8: Target Flow Regime for Davidson Creek at FSS Outfall for Period 2 December to 30 June during Below Average Water Years Table 12.2.1-9: Baseline Temperatures in Davidson Creek and Predicted Changes with Tatelkuz Lake Water Addition – Operations and Closure (°C) Table 12.2.1-10: Mine Site Facilities and Year of Construction Table 12.2.1-11: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures Table 12.2.1-12: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures (Mine Access Road) Table 12.2.1-13: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures (Kluskus-Ootsa FSR) Table 12.2.1-14: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures (Freshwater Supply Line) Table 12.2.1-15: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures (Instream Flow Needs) Table 12.2.1-16: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures Table 12.2.1-17: Stream Segments between TSF and Freshwater Reservoir Table 12.2.1-18: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures Table 12.2.1-19: Potential Interactions by Project Phase with Fish Habitat and Mitigation Measures

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1370	B	12.2	162	Environmental Management Plans	• Invasive Species Management;	6	B	12.2, Subsection 12.2.1.18.4.5	12.2.1-124	Environmental Management Plans	Appendix 12.2.1A: Site and Invasive Plant Survey Record (App Volume 18) Table 12.2.1-24: Weeds and Invasive Plants Occurring in or Near the Project Footprint and Source of Designation
1371	B	12.2	162	Environmental Management Plans	• Wetlands Management;	6	B	12.2, Subsection 12.2.1.18.4.3	12.2.1-100	Environmental Management Plans	Appendix 5.3.7A: Blackwater Gold Project Conceptual Wetlands Compensation Plan (AMEC E&I) (App Volume 16) Table 12.2.1-20: Activities with Potential to Affect Wetland Functions
1372	B	12.2	163	Environmental Management Plans	• Wildlife Management;	6	B	12.2, Subsection 12.2.1.18.4.6	12.2.1-134	Environmental Management Plans	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Table 12.2.1-25: Sensitive Periods for Wildlife and Fish
1373	B	12.2	163	Environmental Management Plans	• Wildfire Protection;	6	B	12.2, Subsection 12.2.1.18.4.20	12.2.1-389	Environmental Management Plans	
1374	B	12.2	163	Environmental Management Plans	• Occupational Health and Safety Management;	6	B	12.2, Subsection 12.2.1.18.4.15	12.2.1-266	Environmental Management Plans	
1375	B	12.2	163	Environmental Management Plans	• Recruitment, Training and Employment;	6	B	12.2, Subsection 12.2.1.18.4.16	12.2.1-278	Environmental Management Plans	
1376	B	12.2	163	Environmental Management Plans	• Visual Resources and Aesthetics Management;	6	B	12.2, Subsection 12.2.1.18.4.8	12.2.1-167	Environmental Management Plans	Figure 12.2.1-17: Spatial Distribution of Recreation Features Inventory and Visual Landscape Inventory in the Mine Site RSA Figure 12.2.1-18: Criteria for Visual Resources Management Priority Figure 12.2.1-19: Potential Interaction between Visual Resources and Project Activities (Greer Creek) Figure 12.2.1-20: Potential Interaction between Visual Resources and Project Activities (Brewster Lake) Figure 12.2.1-21: Potential Interaction between Visual Resources and Project Activities (Tatelkuz Lake Eastbank Locations) Figure 12.2.1-22: Potential Interaction between Visual Resources and Project Activities (Top Lake, Mount Davidson) Table 12.2.1-28: Visual Sensitivity Units Table 12.2.1-29: Established Visual Quality Objectives for Scenic Areas Table 12.2.1-30: Recreation Sites and Trails Requiring Follow Up Monitoring of Effects from Project Activities and Operations Table 12.2.1-31: Valued Components Overlapping Visual Aesthetic Study Areas
1377	B	12.2	163	Environmental Management Plans	• Archaeology and Heritage Resources Management.	6	B	12.2, Subsection 12.2.1.18.4.7	12.2.1-156	Environmental Management Plans	Appendix 12.2.1B: Archaeology Chance Find Recovery Form (App Volume 18) Figure 12.2.1-16: Chain of Communication for Management of Heritage Resources

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											Table 12.2.1-26: Inventory of Identified Archaeological and Heritage Resources Table 12.2.1-27: Contact List for Chance Finds
1378	B	12.2	163	Environmental Management Plans	Activities or mitigation proposed for the closure and post-closure phases, including the Landscape Design and Restoration Plan, Soil Salvage and Site Reclamation Plan, and Facilities Decommissioning Plan, will be presented in the Closure Plan that will be integrated into the Project Description in Section 2.6.	6	B	12.2, Subsection 12.2.2	12.2.2-1	Environmental Management Plans	
1379	B	13	**164**	**FOLLOW-UP MONITORING AND COMPLIANCE REPORTING**							
1380	B	13	165	FOLLOW-UP MONITORING AND COMPLIANCE REPORTING	This section of the Application will provide a description of the reporting structure as identified within the EMPs, monitoring plans, and commitments.	6	B	13	13-1	FOLLOW-UP MONITORING AND COMPLIANCE REPORTING	Appendix 2.2A-5: Construction Sediment and Erosion Control Plan (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (Part 1) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (Part 2) (App Volume 6) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 1) (App Volume 9) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Part 2) (App Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 5.3.7A: Blackwater Gold Project Conceptual Wetlands Compensation Plan (AMEC E&I) (App Volume 16) Figure 13.2-1: Corporate and Mine Management Structure Figure 13.3-1: Surface Water Quality Monitoring Sites Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
1381	**C**	**—**	165	**ABORIGINAL GROUPS INFORMATION REQUIREMENTS**							
1382	C	—	165	ABORIGINAL GROUPS INFORMATION REQUIREMENTS	Part C of the Application will discuss Aboriginal groups' considerations pertaining to the proposed Project. This section will rely on guidance found in BC EAO's User Guide (BC EAO, 2010b), AIR Template, and Proponent Guide for Providing First Nation Consultation Information (Non-Treaty First Nations) (BC EAO, 2010a).	6	C	14	14-1	ABORIGINAL GROUPS BACKGROUND INFORMATION	

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					Part C of the Application will consider the potential effects of the Project on the potential or established Aboriginal rights and related interests of the named Aboriginal groups that have the potential to be adversely affected by the Project. The Aboriginal groups currently identified by the EAO and the Agency for the Application/EIS are presented in the table below. Aboriginal groups identified by the EAO and the Agency; Aboriginal Group Section 11 Order Schedule B Section 11 Order Schedule C EIS Guidelines. Schedule B: · Lhoosk'uz Dene Nation (LDN); · Nadleh Whut'en First Nation (NWFN); · Saik'uz First Nation (SFN); · Stellat'en First Nation (StFN); and · Ulkatcho First Nation (UFN). Schedule C: · Nazko First Nation (NFN); · Skin Tyee Nation (STFN); and · Tsilhqot'in National Government (TNG). Métis Nation of British Columbia (MNBC) The section 11 Order directs the Proponent to consult with the Aboriginal Groups listed on Schedule B of the Order. Information related to those Aboriginal Groups will be the main focus in the Proponent's Application.						
1383						6	C	15	15-1	ABORIGINAL RIGHTS	
1384						6	C	16	16-1	OTHER ABORIGINAL INTEREST	
1385						6	C	17	17-1	ABORIGINAL GROUPS CONSULTATION	
1386						6	C	18	18-1	SUMMARY OF ABORIGINAL GROUPS INFORMATION	
1387	C	14	166	**ABORIGINAL GROUPS BACKGROUND INFORMATION**							
1388	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION	This section of the Application will provide background information on each of the Aboriginal groups specified in the section 11 Order. This section will describe the environment, economic, social, cultural, heritage, and health conditions for each of the identified Aboriginal groups. It will also include maps, where available, of the asserted traditional territory of the Aboriginal groups potentially affected by the proposed Project. Using a range of primary and available secondary data sources, as well as other methods developed through discussions with Aboriginal groups, the description will include relevant discussions of: • Socio-cultural: o Ethnography; o Population and demographics; o Reserves, where applicable; o Language; o Governance; o Family and cultural practices; o Community well-being;	6	C	14, Subsection 14.1 Subsection 14.1.1	14-1 14-2	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.1-1: Location of Proposed Mine Site, Mine Access Road, Transmission Line, and Freshwater Supply Pipeline

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					o Infrastructure; • Economic: o Land use setting and planning; and o Economic setting; o Traditional land use and traditional knowledge (fishing, hunting, trapping, plant harvesting); o Employment and labour force; and o Skills and training.						
1389	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.1	14-12	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-1: Lhoosk'uz Dene Nation Traditional Territory Table 14.3-1: Lhoosk'uz Dene Nation Officials Table 14.3-2: Lhoosk'uz Dene Nation Reserves/Settlements/Villages Table 14.3-3: Lhoosk'uz Dene Nation Registered Population as of November 2012 Table 14.3-4: Lhoosk'uz Dene Nation On-Reserve Marital Statistics, 2001 Census Table 14.3-5: Lhoosk'uz Dene Nation Household and Dwelling Characteristics Table 14.3-6: Kluskus Labour Force Characteristics – 2001
1390	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.2	14-26	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-2: Nadleh Whut'en First Nation Traditional Territory Table 14.3-7: Nadleh Whut'en First Nation Officials Table 14.3-8: Nadleh Whut'en First Nation Reserves/Settlements/Villages Table 14.3-9: Nadleh Whut'en First Nation Registered Population as of January 2013 Table 14.3-10: Nadleh Whut'en First Nation Marital Status – 2006 Census Table 14.3-11: Nadleh Whut'en First Nation Household and Dwelling Characteristics, 2006 and 2001 Censuses Table 14.3-12: Nadleh Whut'en First Nation Employment and Labour Force Characteristics Table 14.3-13: Nadleh Whut'en First Nation Education Characteristics, Highest Degree or Certificate, 2006 Census
1391	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.3	14-36	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-3: Saik'uz First Nation Traditional Territory Table 14.3-14: Saik'uz First Nation Officials Table 14.3-15: Saik'uz First Nation Reserves Table 14.3-16: Saik'uz First Nation Registered Population as of January 2013 Table 14.3-17: Saik'uz First Nation Family Structure Marital Status Statistics, 2001 and 2006 Censuses Table 14.3-18: Saik'uz First Nation Household and Dwelling Characteristics, 2001 and 2006 Censuses Table 14.3-19: Saik'uz First Nation Labour Force Characteristics, 2001 and 2006 Censuses Table 14.3-20: Saik'uz First Nation Education Characteristics, Highest Degree, or Certificate

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1392	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.4	14-48	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-4: Stellat'en First Nation Traditional Territory Table 14.3-21: Stellat'en First Nation Governance Table 14.3-22: Stellat'en First Nation Reserves/Settlements/Villages Table 14.3-23: Stellat'en First Nation Registered Population and Demographics Table 14.3-24: Stellat'en First Nation Family Structure Marital Status Statistics, 2001 and 2006 Censuses Table 14.3-25: Stellat'en First Nation Household and Dwelling Characteristics, 2001 and 2006 Censuses Table 14.3-26: Stellat'en First Nation On-Reserve Labour Force Characteristics Table 14.3-27: Stellat'en First Nation Education Characteristics, Highest Degree or Certificate, 2006 Census
1393	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.5	14-57	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3 5: Ulkatcho First Nation Traditional Territory Table 14.3-28: Ulkatcho First Nation Officials Table 14.3-29: Ulkatcho First Nation Reserves/Settlements/Villages Table 14.3-30: Ulkatcho First Nation Registered Population as of November 2012 Table 14.3-31: Ulkatcho First Nation on Reserve Marital Statistics, 2006 Census Table 14.3-32: Ulkatcho First Nation Household and Dwelling Characteristics, 2006 Census Table 14.3-33: Ulkatcho First Nation Labour Force Characteristics – 2006 Census Table 14.3-34: Ulkatcho First Nation On-Reserve Education Levels, Highest Degree or Certificate: 2006 Census
1394	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsection 14.3.6	14-69	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-6: Nazko First Nation Traditional Territory Table 14.3-35: Nazko First Nation Officials Table 14.3-36: Nazko First Nation Reserves/Settlements/Villages Table 14.3-37: Nazko First Nation Registered Resident Population as of January 2013 Table 14.3-38: Nazko First Nation Family Structure Marital Status, 2001 Census Table 14.3-39: Nazko First Nation Household and Dwelling Characteristics, 2001 Census Table 14.3-40: Nazko First Nation Labour Force Characteristics, 2001 Census
1395	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION		6	C	14, Subsections 14.3.7, 14.3.8, 14.3.9, 14.3.10, 14.3.11	14-78 14-88 14-92 14-94 14-97	ABORIGINAL GROUPS BACKGROUND INFORMATION	Figure 14.3-7: Skin Tyee Nation Traditional Territory Figure 14.3-8: Tsilhqot'in Nation Traditional Territory Figure 14.3-9: Métis Governance Structure Table 14.3-41: Skin Tyee First Nation Officials Table 14.3-42: Skin Tyee First Nation

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											Reserves/Settlements/Villages Table 14.3-43: Skin Tyee First Nation Registered Population as of November 2012 Table 14.3-44: Skin Tyee First Nation Marital Status Statistics, 2006 Census Table 14.3-45: Skin Tyee First Nation Household and Dwelling Characteristics, 2006 Census Table 14.3-46: Skin Tyee First Nation Labour Force Characteristics, 2006 Census Table 14.3-47: Skin Tyee First Nation Education Characteristics, Highest Degree or Certificate, 2006 Census Table 14.3-48: Tsilhqot'in Nation Governance Table 14.3-49: Carrier-Chilcotin Tribal Council Officials Table 14.3-50: Carrier Sekani Tribal Council Officials Table 14.3-51: Carrier Sekani Tribal Council Support Services
1396	C	14	166	ABORIGINAL GROUPS BACKGROUND INFORMATION	The items listed above will aim to incorporate information provided directly by Aboriginal groups, where available. A summary of traditional knowledge and traditional use information from Aboriginal groups, and other sources, relevant to the proposed Project and not subject to confidentiality provisions, will be presented in the Application. Where feasible, information collection and reporting methodologies are determined by or in collaboration with Aboriginal groups, and may include broad or site-specific information collected from knowledge holders.	6	C	14	14-1	ABORIGINAL GROUPS BACKGROUND INFORMATION	
1397	**C**	**15**	**167**	**ABORIGINAL RIGHTS**			**C**				
1398	C	15	167	ABORIGINAL RIGHTS	This section of the Application will discuss potential or established Aboriginal rights and related interests for the Aboriginal groups identified for the proposed Project. This section of the Application will summarize the Proponent's understanding of Aboriginal rights and related interests asserted within the proposed Project area. In doing so it will:	6	C	15, Subsection 15.1, Subsection 15.2, Subsection 15.3, Subsection 15.4, Subsection 15.5, Subsection 15.6, Subsection 15.7, Subsection 15.8, Subsection 15.9, Subsection 15.10	15-1, 15-7, 15-24, 15-35, 15-46, 15-56, 15-71, 15-76, 15-78; 15-80	ABORIGINAL RIGHTS	Table 15.1-1: Project Overlap with Aboriginal Group Traditional Territory
1399	C	15	167	ABORIGINAL RIGHTS	• Identify past, present and anticipated future uses of the proposed Project area by Aboriginal groups;	6	C	15, Subsection 15.2.1, Subsection 15.3.1, Subsection 15.4.1, Subsection 15.5.1, Subsection 15.6.1, Subsection 15.7.1, Subsection 15.8.1, Subsection 15.9.1, Subsection 15.10.1	15-1 15-7, 15-24, 15-35, 15-46, 15-56, 15-71, 15-76, 15-78; 15-80	ABORIGINAL RIGHTS	

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1400	C	15	167	ABORIGINAL RIGHTS	• Identify any specific asserted Aboriginal rights (including title) about which the Proponent receives information from Aboriginal groups and other sources;	6	C	15, Subsection 15.2.2, Subsection 15.3.2, Subsection 15.4.2, Subsection 15.5.2, Subsection 15.6.2, Subsection 15.7.2, Subsection 15.8.2, Subsection 15.9.2; Subsection 15.10.2	15-1 15-9, 15-25, 15-36, 15-47, 15-57, 15-71, 15-76, 15-79, 15-80	ABORIGINAL RIGHTS	Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.4-1: Summary of Saik'uz First Nation Rights Raised in Relation to the Project Table 15.5-1 Summary of Stellat'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.6-1: Summary of Ulkatcho First Nation Rights and Concerns Raised in Relation to the Project Table 15.7-1: Summary of Nazko First Nation Rights and Concerns Raised in Relation to Project
1401	C	15	167	ABORIGINAL RIGHTS	• Identify potential impacts of the proposed Project on the uses and asserted rights identified by way of the preceding two bullet points; and	6	C	15, Subsection 15.2.3, Subsection 15.3.3, Subsection 15.4.3, Subsection 15.5.3, Subsection 15.6.3, Subsection 15.7.3, Subsection 15.8.3, Subsection 15.9.3, Subsection 15.10.3	15-1 15-11, 15-26, 15-37, 15-48, 15-59, 15-72, 15-77, 15-80, 15-81	ABORIGINAL RIGHTS	Table 15.2-3: Potential Changes in the Availability of Harvested Resources for LDN Table 15.2-4: Loss of Fish and Fish Habitat Type for LDN Table 15.2-5: Potential Changes in the Availability of Traditional Plant Habitat for LDN Table 15.3-3: Potential Changes in the Availability of Harvested Resources for NWFN Table 15.3-4: Potential Changes in the Availability of Traditional Plan Habitat for NWFN Table 15.4-3: Potential Changes in the Availability of Harvested Resources for SFN Table 15.4-4: Potential Changes in the Availability of Traditional Plant Habitat for SFN Table 15.5-3: Potential Changes in the Availability of Harvested Resources for StFN Table 15.5-4: Potential Changes in the Availability of Traditional Plant Habitat for StFN Table 15.6-3: Potential Changes in the Availability of Harvested Resources for UFN Table 15.6-4: Loss of Fish and Fish Habitat Type for UFN Table 15.6-5: Potential Changes in the Availability of Traditional Plant Habitat for UFN
1402	C	15	167	ABORIGINAL RIGHTS	• Describe mitigation measures to avoid or reduce such impacts.	6	C	15, Subsection 15.2.3, Subsection 15.3.3, Subsection 15.4.3, Subsection 15.5.3, Subsection 15.6.3, Subsection 15.7.3, Subsection 15.8.3, Subsection 15.9.3, Subsection 15.10.3	15-1 15-11, 15-26, 15-37, 15-48, 15-59, 15-72, 15-77, 15-80, 15-81	ABORIGINAL RIGHTS	Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Table 15.2-2: Lhoosk'uz Dene Nation – Rights Effects and Mitigation Tracking Table Table 15.3-2: Nadleh Whut'en First Nation – Rights Effects and Mitigation Tracking Table Table 15.4-2: Saik'uz First Nation – Rights Effects and Mitigation Tracking Table Table 15.5-2: Stellat'en First Nation – Rights Effects and Mitigation Tracking Table Table 15.6-2: Ulkatcho First Nation – Rights Effects and Mitigation Tracking Table Table 15.7-2: Nazko First Nation – Rights Effects and Mitigation Tracking Table

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1403	**C**	**16**	**168**	**OTHER ABORIGINAL INTEREST**							
1404	C	16	168	OTHER ABORIGINAL INTEREST	This section of the Application will identify other Aboriginal interests with respect to potential social, economic, environmental, heritage and health effects (to the extent that these are not already identified in Section 15). This section will also describe how these interests have been addressed.	6	C	16, Subsection 16.1	16-1	OTHER ABORIGINAL INTEREST	Figure 16.1-1: TK/TLU Integration into the Blackwater Gold Project
1405	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.2, Subsection 16.3	16-5 16-21	OTHER ABORIGINAL INTEREST	Table 16.2-1: Lhoosk'uz Dene Nation Interests Table 16.2-2: Summary of Lhoosk'uz Dene Nation Interests Table 16.3-1: Summary of Nadleh Whut'en First Nation Interests Table 16.3-2: Nadleh Whut'en First Nation Interests
1406	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.4	16-26	OTHER ABORIGINAL INTEREST	Table 16.4-1: Summary of Saik'uz First Nation Interests Table 16.4-2: Saik'uz First Nation Interests
1407	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.5	16-38	OTHER ABORIGINAL INTEREST	Table 16.5-1: Summary of Stellat'en First Nation Interests Table 16.5-2: Stellat'en First Nation Interests
1408	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.6	16-46	OTHER ABORIGINAL INTEREST	Table 16.6-1: Summary of Ulkatcho First Nation Interests Table 16.6-2: Ulkatcho First Nation Interests
1409	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.7	16-61	OTHER ABORIGINAL INTEREST	Table 16.7-1: Summary of Nazko First Nation Interests Table 16.7-2: Nazko First Nation Interests
1410	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.8	16-66	OTHER ABORIGINAL INTEREST	Table 16.8-1: Summary of Skin Tyee First Nation Interests Table 16.8-2: Skin Tyee First Nation Interests
1411	C	16	168	OTHER ABORIGINAL INTEREST		6	C	16, Subsection 16.9, Subsection 16.10	16-68 16-70	OTHER ABORIGINAL INTEREST	Table 16.9-1: Summary of Tsilhqot'in First Nation Interests Table 16.9-2: Tsilhqot'in National Government Interests Table 16.10-1: Summary of Métis Nation BC Interests Table 16.10-2: Métis Nation BC Interests
1412	**C**	**17**	**169**	**ABORIGINAL GROUPS CONSULTATION**							
1413	C	17	169	ABORIGINAL GROUPS CONSULTATION	This section of the Application will summarize engagement and consultation activities undertaken with Aboriginal groups potentially affected by the proposed Project as well as future planned engagement and consultation activities. The sections will be summarized as described below.	6	C	17	17-1	ABORIGINAL GROUPS CONSULTATION	Appendix 2.3B: Order under Section 11 (App Volume 3) Appendix 2.4B: Environmental Impact Statement Guidelines 19 February 2013 (App Volume 3) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4)
1414	C	17.1	169	Pre-Application Engagement	This section will provide a summary of engagement activities undertaken with the identified Aboriginal groups potentially affected by the proposed Project. The summary will include the exploration stage	6	C	17	17-1	ABORIGINAL GROUPS CONSULTATION	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC

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					and cover the preparation of the AIR and the development of the Application.						E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18) Table 17.1.2-1: Aboriginal Groups Identified by the BC EAO and the Agency
1415	C	17.1	169	Pre-Application Engagement	Key issues identified during engagement that are of relevance to the Application will be summarized in this section, as well as the Proponent's responses to those key issues. Cross-reference to Aboriginal Groups Issues Tracking Table (to be included in an appendix to the Application) will be made. This section will also demonstrate the efforts made by the Proponent to ensure Aboriginal groups have current and relevant Project information as well as efforts made to integrate Aboriginal traditional knowledge.	6	C	17, Subsection 17.3	17-12	Pre-Application Consultation by Aboriginal Group	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Figure 17.1.3-1: Integration of Traditional Knowledge and Land Use Information into the Blackwater Gold Project Development Table 17.3.1-1: Key Issues, Concerns, and Interests Expressed by Lhoosk'uz Dene Nation and Responses Provided by the Proponent Table 17.3.2-1: Key Issues, Concerns, and Interests Expressed by Nadleh Whut'en First Nation and Responses Provided by the Proponent Table 17.3.3-1: Key Issues, Concerns, and Interests Expressed by Saik'uz First Nation and Responses Provided by the Proponent Table 17.3.4-1: Key Issues, Concerns, and Interests Expressed by Stellat'en First Nation and Responses Provided by the Proponent Table 17.3.5-1: Key Issues, Concerns, and Interests Expressed by Ulkatcho First Nation and Responses Provided by the Proponent Table 17.3.6-1: Key Issues, Concerns, and Interests Expressed by Nazko First Nation and Responses Provided by the Proponent Table 17.3.7-1: Key Issues, Concerns, and Interests Expressed by Skin Tyee Nation and Responses Provided by the Proponent Table 17.3.8-1: Key Issues, Concerns, and Interests Expressed by Tsilhqot'in National Government and Responses Provided by the Proponent Table 17.3.9-1: Key Issues, Concerns, and

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											Interests Expressed by Métis Nation BC and Responses Provided by the Proponent
1416	C	17.2	169	Planned Engagement and Consultation during the Application Review	This section will describe the Proponent's plans for engagement and consultation during the Application review stage. It will describe the planned engagement and consultation activities for this stage and document the proposed methods and processes to resolve outstanding issues.	6	C	17, Subsection 17.4	17-71	Application Review Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 17.4.1-1: Schedule of Consultation and Information Activities
1417	**C**	**18**	**170**	**SUMMARY OF ABORIGINAL GROUPS INFORMATION**			**C**				
1418	C	18	170	SUMMARY OF ABORIGINAL GROUPS INFORMATION	This section of the Application will summarize effects of the proposed Project on the Aboriginal rights and identify in a table specific commitments to address effects (Table 18-1). Table 18.1 1: Summary of Potential Effects on Aboriginal Activities and Accommodations Measures - Potential Effects on Aboriginal Activities - Accommodation Measures	6	C	18	18-1	SUMMARY OF ABORIGINAL GROUPS INFORMATION	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodation Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures
1419	**D**	**-**	**171**	**CONCLUSIONS**			**D**	**-**			
1420	D	19	171	SUMMARY OF RESIDUAL EFFECTS	This section of the Application will provide a tabular summary of residual environmental, economic, social, heritage, or health effects predicted to result from the proposed Project that cannot be completely avoided or mitigated through the redesign or relocation of the proposed Project or through Proponent commitments. An example of the table is presented in Table 19 1. Table 19.1 1: Summary of Residual Effects - Residual Effect Project Phase Contributing - Project Activity or Physical Works Proposed - Mitigation Significance - Effect Category (e.g., Archaeology, Wildlife and Wildlife Habitat, Fish and Fish Habitat) The summary will reference mitigations that were taken into consideration in the assessment of effects and will present the conclusion of the evaluation of significance (significant or not significant) for residual effects predicted to occur to VCs as a result of the proposed Project. This section of the Application will summarize the findings of the effects assessments conducted for the proposed Project and will	6	D	19	19-1	SUMMARY OF RESIDUAL EFFECTS	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects

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					provide concluding statements regarding the significance of residual or cumulative residual effects predicted to occur as a result of the proposed Project.						
1421	D	20	172	SUMMARY OF MITIGATION MEASURES	This section of the Application will present a summary of proposed mitigation measures to prevent or reduce adverse environmental, economic, social, heritage, or health effects. All mitigation measures must described in language so that the measure is clear, measurable and enforceable. An example of the table is presented in Table 20 1. - Table 20.1-1: Summary of Proposed Mitigation Measures - Number - Proposed Mitigation Measure - Timing	6	D	20	20-1	SUMMARY OF MITIGATION MEASURES	Table 20 1: Proposed Key Mitigation Measures
1422	D	21	173	CONCLUSION	This section of the Application will summarize the findings of the effects assessments conducted for the proposed Project and will provide concluding statements regarding the significance of the proposed Project residual or cumulative residual effects predicted to occur as a result of the proposed Project. The conclusion section will also: • Provide a summary of the Proponent's understanding of the provincial EA process in promoting sustainable development while minimizing adverse effects on environmental, economic, social, heritage, and health values; • Describe how the proposed Project aligns with the goal of the provincial EA process; and • State the request for an EA Certificate for the proposed Project and the need to successfully complete a federal EA and subsequent permitting / authorization processes prior to proceeding with proposed Project construction, operations, and closure.	6	D	21	21-1	CONCLUSION	Appendix 5.3.7A: Blackwater Gold Project Conceptual Wetlands Compensation Plan (AMEC E&I) (App Volume 16) Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Table 21.4-1: Valued Components by Pillar Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures Table 21.5-1: Proponent's Table of Proposed Mitigation Measures
1423	-	-	174	REFERENCES	This section of the Application will include the list of references cited throughout the Application, and will be included in each volume of the Application.	6	-	-		REFERENCES	
1424	-	-	181	APPENDICES	This section will provide applicable appendices to the Application. The Application will identify and append applicable sealed studies where the information is prepared by professionals and provided under their professional seal.	Appendix Volume 1-18	-	-		APPENDICES	

TC 2:
Table of Concordance with the Environmental Impact Statement Guidelines

TC 2: Table of Concordance with the Environmental Impact Statement Guidelines

Federal Environmental Impact Statement (EIS) Guideline					Environmental Impact Statement					
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SECTION 4 - SUMMARY OF ENVIRONMENTAL IMPACT STATEMENT										
1	4	7	Summary of the Environmental Impact Statement	The proponent will prepare a summary of the EIS in both of Canada's official languages (French and English) to be provided to the Agency at the same time as the EIS and which will include the following:	1	-	0	-	EXECUTIVE SUMMARY	
2	4	7	Summary of the Environmental Impact Statement	• A concise description of all key components of the project and related activities;	1	-	0	2	EXECUTIVE SUMMARY - Project Description	Table ES 1: Project Components and Facilities – Approximate Dimensions and Capacity Figure ES 2: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure ES 3: Mine Site Layout
3	4	7	Summary of the Environmental Impact Statement	• A summary of the consultation conducted with Aboriginal groups, the public, and government agencies, including a summary of the issues raised and the proponent's responses;	1	-	0	18	EXECUTIVE SUMMARY-Consultation and Engagement Activities	Table ES 4: Working Group Members
4	4	7	Summary of the Environmental Impact Statement	• An overview of the key environmental effects of the project and proposed technically and economically feasible mitigation measures; and,	1	-	0	23	EXECUTIVE SUMMARY - Summary of Effects Assessment	Table ES 5: Wetland Loss and Compensation Table ES 6: Proponent's Table of Proposed Mitigation Measures Figure ES 9: Aquatic Study Areas
5	4	7	Summary of the Environmental Impact Statement	• The proponent's conclusions on the residual environmental effects of the project and the significance of adverse environmental effects after taking mitigation measures into account.	1	-	0	61	EXECUTIVE SUMMARY-Conclusion	Table ES 7: Summary of Significance Determination for Residual and Cumulative Effects
6	4	7	Summary of the Environmental Impact Statement	The summary is to be provided as a separate document and should follow the outline provided below: 1. Introduction and environmental assessment context 2. Project overview 3. Scope of project and assessment 4. Alternative means of carrying out the project 5. Public and Aboriginal engagement 6. Summary of environmental effects assessment 7. Mitigation measures 8. Proposed significance determination	1	-	0	-	EXECUTIVE SUMMARY	Table ES 1: Project Components and Facilities – Approximate Dimensions and Capacity Table ES 2: Selected Valued Components Table ES 3: Alternative Means of Undertaking the Project Table ES 4: Working Group Members Table ES 5: Wetland Loss and Compensation Table ES 6: Proponent's Table of Proposed Mitigation Measures Table ES 7: Summary of Significance Determination for Residual and Cumulative Effects Figure ES 1: Project Location Figure ES 2: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure ES 3: Mine Site Layout Figure ES 4: Estimated Contributions to the British Columbia Gross Domestic Product Figure ES 5: Coordinated Federal and Provincial

Federal Environmental Impact Statement (EIS) Guideline					Environmental Impact Statement					
ID	**Section**	**Page**	**Federal EIS Guideline Reference Title**	**Federal EIS Guideline Requirement Description (19 February 2013)**	**Volume**	**Part**	**Section**	**Page**	**Section Title**	**Other Documentation (Tables, Figures, Appendices etc.)**
										Environmental Assessment Process Figure ES 6: Effects Assessment General Approach Flow Chart Figure ES 7: Effects Assessment Process Flow Chart Figure ES 8: Steps in the Selection of Valued Components Flow Chart Figure ES 9: Aquatic Study Areas
7	4	7	Summary of the Environmental Impact Statement	The summary will have a sufficient level of detail for the reader to learn and understand the entire project, potential impacts, mitigation measures proposed by the proponent, the residual effects and the conclusions regarding significance.	1	-	0	-	EXECUTIVE SUMMARY	
SECTION 5 – INTRODUCTION AND PROJECT OVERVIEW										
8	5.1	8	Geographical setting	The EIS will contain a concise description of the geographical setting in which the project will take place. This description will focus on those aspects of the project and its setting that are important in order to understand the potential environmental effects of the project. The description will address the natural and human elements of the environment as well as explain the interrelationships between the biophysical environment and people and communities. The following information will be included:	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Table 2.2.1-1: Distances to Nearby Communities From the Proposed Project Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line and Freshwater Supply Pipeline
9	5.1	8	Geographical setting	• The UTM coordinates of the main project site;	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	
10	5.1	8	Geographical setting	• Current land use in the area and the relationship of the project facilities and components with any federal lands;	1 1 6	A A D	2.7 2.7.3 19.3	2.7-1 2.7-3 19-27	Proposed Project Land Use Provincial and Federal Crown Land Summary of Effects to Federal Lands	Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN,

Federal Environmental Impact Statement (EIS) Guideline					Environmental Impact Statement					
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										STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
11	5.1	8	Geographical setting	• The environmental significance and value of the geographical setting in which the project will take place and the surrounding area;	1	A	2.2.1.1.5	2.2-7	Environmental Significance and Value of the Geographical Setting	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline
12	5.1	8	Geographical setting	• Environmentally sensitive areas, such as national, provincial and regional parks, ecological reserves, wetlands, estuaries, and habitats of federally or provincially listed species at risk and other sensitive areas;	1 1 1 3 4 4 4 4 4 4 4 4 4 5 5 5	A A A B B B B B B B B B B B B B	2.2.1.1 2.2.1.1.5 2.7.5 5.3.7 5.4.6 5.4.7 5.4.8 5.4.9 5.4.10 5.4.11 5.4.12 5.4.13 5.4.14 5.4.15 7.1.2.2 7.1.4.1.2.6 7.2.6	2.2-6 2.2-7 2.7-3 5.3.7-1 5.4.6-1 5.4.7-1 5.4.8-1 5.4.9-1 5.4.10-1 5.4.11-1 5.4.12-1 5.4.13-1 5.4.14-1 5.4.15-1 7.1-13 7.1-33 7.2.6-1	Proposed Project Overview - Geographical Setting Environmental Significance and Value of the Geographical Setting Proposed Project Land Use - Parks, Ecological Reserves and Protected Areas Wetlands Plant Species and Ecosystems at Risk Amphibians, Water Birds, Forest and Grassland Birds, Moose, Caribou, Grizzly Bear, Furbearers, Bats, Invertebrates Social Baseline – Protected Areas and Parks Visual Resources Baseline – Mapping of Known Protected Areas Non-Traditional Land and Resource Use	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17)
13	5.1	8	Geographical setting	• Local and Aboriginal communities; and,	1	A	2.2.1	2.2-1	Purpose and Location of the Proposed Project	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Table 2.2.1-1: Distances to Nearby Communities From the Proposed Project
14	5.1	8	Geographical setting	• Traditional Aboriginal territories, treaty lands, and Indian reserve lands.	1 1 5 6	A A B C	2.2 2.7 7.1.3 14	2.2-1 2.7-1 7.1-17 14-1	Proposed Project Description Proposed Project Land Use Current Land and Resource Use for Traditional Purposes Aboriginal Groups Background Information	Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Table 2.2.1-1: Distances to Nearby Communities From the Proposed Project Figure 7.1.3-1: First Nations Territories and Current Land and Resource Use for Traditional Purposes Study Areas

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15	5.1	8	Geographical setting	The EIS will provide expanded description and mapping of the project location, including each of the project components as outlined in section 5.6 of this document.	1	A	2.2	2.2-1	Proposed Project Description	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure 2.2.2-2: Proposed Mine Site Facilities and Access Road Year 17 Figure 2.2.3-1: Overall Site Layout of Open Pit and Waste Facilities Figure 2.2.3-64: Plant Site Location Figure 2.2.3-65: General Arrangement End of Year -2 Plan Figure 2.2.3-66: General Arrangement End of Year -1 Plan Figure 2.2.3-67: General Arrangement End of Year 1 Figure 2.2.3-68: General Arrangement End of Year 3 Plan Figure 2.2.3-70: General Arrangement End of Year 17 Plan Figure 2.2.3-77: TSF Site C Year -2 Construction Plan Figure 2.2.3-78: TSF Site C Year -1 Construction Plan Figure 2.2.3-79: TSF Site D Year -1 Construction Plan Figure 2.2.3-80: TSF Site D Main Dam Staged Expansions Figure 2.2.3-81: Environmental Control Dam and Interception Trenches Figure 2.2.3-82: Site C West Dam Seepage Control Figure 2.2.3-84: Environmental Control Dam Figure 2.2.3-85: Pit Dewatering System Figure 2.2.3-86: Low-Grade Ore Stockpile Water Management Figure 2.2.4-1: Kluskus-Ootsa FSR Upgrade Figure 2.2.4-2: Project Area General Arrangement
16	5.1	8	Geographical setting	Maps of the project's location at an appropriate scale will accompany the text. The location map should include the boundaries of the proposed site including UTM coordinates, the major existing infrastructure, adjacent land uses and any important environmental features. In addition, site plans/sketches and photographs showing project location, site features and the intended location of project components will be included.	1	A	2.2	2.2-1	Proposed Project Description	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Figure 2.2.1-1: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure 2.2.2-2: Proposed Mine Site Facilities and Access Road Year 17 Figure 2.2.3-1: Overall Site Layout of Open Pit and Waste Facilities Figure 2.2.3-64: Plant Site Location Figure 2.2.3-65: General Arrangement End of Year -2 Plan Figure 2.2.3-66: General Arrangement End of Year -1 Plan Figure 2.2.3-67: General Arrangement End of Year 1 Figure 2.2.3-68: General Arrangement End of Year 3 Plan Figure 2.2.3-70: General Arrangement End of Year 17 Plan Figure 2.2.3-77: TSF Site C Year -2 Construction Plan Figure 2.2.3-78: TSF Site C Year -1 Construction Plan Figure 2.2.3-79: TSF Site D Year -1 Construction Plan

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										Figure 2.2.3-80: TSF Site D Main Dam Staged Expansions Figure 2.2.3-81: Environmental Control Dam and Interception Trenches Figure 2.2.3-82: Site C West Dam Seepage Control Figure 2.2.3-84: Environmental Control Dam Figure 2.2.3-85: Pit Dewatering System Figure 2.2.3-86: Low-Grade Ore Stockpile Water Management Figure 2.2.4-1: Kluskus-Ootsa FSR Upgrade Figure 2.2.4-2: Project Area General Arrangement Photo 2.2.3-1: Existing Exploration Camp
17	5.2	8	Regulatory framework and the role of government	To understand the context of the EA, this section will identify, for each jurisdiction, the government bodies involved in the EA as well as the EA processes. More specifically identify: • Any federal power duty or function to be exercised that may permit the carrying out (in whole or in part) of the project or associated activities;	1 2	A A	2.9 3.2	2.9-1 3-7	Applicable Permits Federal Assessment	Table 2.9-1: Potential Federal Permits, Licences, and Authorizations Required for the Project Table 3.2-1: Federal Departments involved in the Environmental Assessment
18	5.2	8	Regulatory framework and the role of government	• The environmental and other specific regulatory approvals and legislation that are applicable to the project at the federal, provincial, regional and municipal levels;	1	A	2.9	2.9-1	Applicable Permits	Table 2.9-1: Potential Federal Permits, Licences, and Authorizations Required for the Project Table 2.9-2: Potential Provincial Permits, Licences, and Authorizations Required for the Project
19	5.2	8	Regulatory framework and the role of government	• Government policies, resource management, planning or study initiatives pertinent to the project and/or EA and discuss their implications;	1 1 2 4	A A A B	2.7 2.9 3.2 5.4.11	2.7-1 2.9-1 3-8 5.4.11-1	Proposed Project Land Use – 2.7.1 Land and Resource Management Plan Applicable Permits Federal Assessment Caribou (Caribou Recovery Strategy)	
20	5.2	8	Regulatory framework and the role of government	• Any treaty or self government agreements with Aboriginal groups that are pertinent to the project and/or EA;	1 5	A B	2.7 7.2.7	2.7-1 7.2.7-1	Proposed Project Land Use Current Land and Resource Use for Traditional Purposes	
21	5.2	8	Regulatory framework and the role of government	• Any relevant Land Use Plans, Land Zoning, or Community Plans;	1 5 5	A B B	2.7 7.2.6 7.2.7	2.7-1 7.2.6-1 7.2.7-1	Proposed Project Land Use–2.7.1 Land and Resource Management Plan Non-Traditional Land Use Current Land and Resource Use for Traditional Purposes	
22	5.2	8	Regulatory framework and the role of government	• Major components of the project and identify those being applied for and constructed within the duration of approvals under provincial and federal legislation; and,	1 1	A A	2.3 2.4	2.3-1 2.4-1	Provincial Scope of the Proposed Project Federal Scope of	

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									Assessment of the Proposed Project	
23	5.2	8	Regulatory framework and the role of government	• In a summary form the regional, provincial and/or national objectives, standards or guidelines that have been used by the proponent to assist in the evaluation of any predicted environmental effects.	2 2 2 2 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B	4.1 5.2.2.1 5.2.3.1 5.2.4.1 5.3.2.1 5.3.3.1 5.3.4.1 5.3.5.1 5.3.6.1 5.3.7.1 5.3.8.1 5.3.9.1 5.4.2.1 5.4.3.1 5.4.4.1 5.4.5.1 5.4.6.1 5.4.7.1 5.4.8.1 5.4.9.1 5.4.10.1 5.4.11.1 5.4.12.1 5.4.13.1 5.4.14.1 5.4.15.1 6.2.2.1 6.2.3.1 6.2.4.1 7.2.2.1 7.2.3.1 7.2.4.1 7.2.5.1 7.2.6.1 7.2.7.1 7.2.8.1 8.2.2.1 8.2.3.1 8.2.4.1 9.2.2.1 9.2.3.1	4-2 5.2.2-1 5.2.3-1 5.2.4-1 5.3.2-1 5.3.3 -1 5.3.4-1 5.3.5-1 5.3.6-1 5.3.7-1 5.3.8-1 5.3.9-1 5.4.2-1 5.4.3-1 5.4.4-1 5.4.5-1 5.4.6-1 5.4.7-1 5.4.8-1 5.4.9-1 5.4.10-1 5.4.11-1 5.4.12-1 5.4.13-1 5.4.14-1 5.4.15-1 6-14 6-29 6-55 7.2.2-1 7.2.3-1 7.2.4-1 7.2.5-1 7.2.6-1 7.2.7-1 7.2.8-1 8-10 8-33 8-47 9-27 9-42	General Approach Introduction Section under each VC	Table 4.1-1: Provincial and Federal Guidance Documents and BMPs Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects

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24	5.2	9	Regulatory framework and the role of government	In planning for a mine proposal and in developing the EIS and technical support documentation, the Proponent is advised to consider the "Environmental Code of Practice for Metal Mines" published by Environment Canada in 2009. The recommended practices in the Code include the development and implementation of environmental management tools, the management of wastewater and mining wastes, and the prevention and control of environmental releases to air, water and land.	1 2	A B	2.2.2.1 4	2.2-8 4-1	Assessed Project Assessment Methodology	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale (Noise and Vibration)
25	5.2	9	Regulatory framework and the role of government	In addition, the parameters and approach of the Environmental Effects Monitoring program under the Metal Mining Effluent Regulations should be considered when developing a baseline monitoring program for the aquatic environment.	1 2 6	A B B	2.9 5.1.2.6 13	2.9-1 5.1.2-73 13-1	Applicable Permits Fish and Fish Habitat Follow-up Monitoring and Compliance Reporting	Table 2.9-1: Potential Federal Permits, Licences, and Authorizations Required for the Project Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations
26	5.2	9	Regulatory framework and the role of government	Submission of regulatory and technical information necessary for federal authorities to make their regulatory decisions during the conduct of the environmental assessment is at the discretion of the proponent. Although that information is not necessary for the EA decision, the proponent is strongly encouraged to submit it concurrent with the EIS.	1 1 2 5	A A B B	2.9 2.5 5.1.2.6 7.2.6	2.9-1 2.5-1 5.1.2-73 7.2.6-1	Applicable Permits Alternative Means of Undertaking of the Proposed Project Fish and Fish Habitat Non-Traditional Land and Resource Use	Appendix 7.2.6A: Blackwater Gold Project Navigable Waters Baseline Report and Technical Assessment 2014 (ERM Rescan) (App Volume 17) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
27	5.3	9	Participants in the environmental assessment	Clearly identify the main participants in the EA including jurisdictions other than the federal government, Aboriginal groups, community groups, and environmental organizations.	1 2 2 2 6	- A A A A C	Preface 3.1 3.2 3.3 3.4 17	- 3-1 3-7 3-10 3-35 17-1	Preface to the Application Provincial EA Process Federal Assessment Aboriginal Groups Information Distribution and Consultation Public and Government Agency Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3C: Summary of Consultation Key Contact Summary (App Volume 4) Table 3.1-1: Working Group Members Table 17.1.2-1: Aboriginal Groups Identified by the BC EAO and the Agency Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
28	5.4	9	The proponent	The proponent will: • Provide contact information (e.g. name, address, phone, fax, email);	1	A	2.1	2.1-1	Proponent Description	
29	5.4	9	The proponent	• Identify itself and the name of the legal entity that would develop, manage and operate the project;	1	A	2.1	2.1-1	Proponent Description	

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30	5.4	9	The proponent	• Explain corporate and management structures, as well as insurance and liability management related to the project;	1	A	2.1	2.1-1	Proponent Description	Figure 2.1-1: Corporate and Management Structure for the Project Figure 2.1-2: Corporate Management System Figure 2.1-3: Health, Safety, Environment, and Social Responsibility Guiding Principles
31	5.4	9	The proponent	• Specify the mechanism used to ensure that corporate policies will be implemented and respected for the project;	1	A	2.1	2.1-1	Proponent Description	
32	5.4	9	The proponent	• Summarize key elements of its environment, health and safety management system and discuss how the system will be integrated into the project; and,	1 1	A A	2.1 2.2.5	2.1-1 2.2-268	Proponent Description Environmental Management System and Adaptive Management Approach	Figure 2.1-1: Corporate and Management Structure for the Project Figure 2.1-2: Corporate Management System Figure 2.1-3: Health, Safety, Environment, and Social Responsibility Guiding Principles
33	5.4	9	The proponent	• Identify key personnel, contractors, and/or sub-contractors responsible for preparing the EIS.	1	A	2.1	2.1-1	Proponent Description	Table 2.1-1: Primary Authors for the EA
34	5.5	9	Purpose of the project	The proponent will describe the purpose of the project by providing the rationale for the project, explaining the background, the problems or opportunities that the project is intended to satisfy and the stated objectives from the perspective of the proponent. If the objectives of the project are related to or contribute to broader private or public sector policies, plans or programs, this information will also be included.	1 1	A A	2.2 2.8	2.2-1 2.8-1	Proposed Project Description Proposed Project Benefits	
35	5.6	9	Project components	The proponent will describe the project, by presenting the project components, associated and ancillary works, activities, scheduling details, the timing of each phase of the project and other characteristics that will assist in understanding the environmental effects. This will include: • A characterization of geochemical properties of pit mine materials, waste rock, foundation materials and tailings pond foundation materials;	1 1 2	A B B	2.2 2.2.3 5.1.3.1	2.2-1 2.2-17 5.1.3-1	Proposed Project Description On-site Components and Infrastructure Geology and Geochemistry	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.1.3.1-1: Drill Database Lithological Codes Table 5.1.3.1-2: Measured, Indicated, and Inferred Resources Table 5.1.3.1-3: Geochemistry Testwork Summary Table 5.1.3.1-4: Acid Rock Drainage Classification of Project Samples Table 5.1.3.1-5: Waste Rock and Overburden Tonnages
36	5.6	9	Project components	• A description of the geology, based on results from drilling, test pits and sampling programs;	1 1 2 4	A A B B	2.2 2.2.3 5.1.3.1 5.4.3	2.2-1 2.2-17 5.1.3-1 5.4.3-1	Proposed Project Description On-site Components and Infrastructure Geology and Geochemistry Surficial Geology and Soil Cover	Table 2.2.3-4: Feasibility Study Drill Hole Summary Table Table 2.2.3-5: Summary of Drilling Used for Resource Estimation Figure 2.2.3-7: Soil and Silt Survey Locations Figure 2.2.3-8: Titan 24 DC IP Survey Lines Figure 2.2.3-10: Drill Hole Location Plan – All Drilling Figure 2.2.3-11: Drill Hole Location Plan – Richfield and the Proponent's Drilling

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										Figure 2.2.3-12: Drill Hole Location Plan – Historic Drilling Figure 2.2.3-36: Drilling Location Plan for 2012 and 2013 Site Investigations Figure 2.2.3-37: Tests Pit Location Plan for 2012 and 2013 Site Investigations Figure 2.2.3-38: Surficial Materials Figure 2.2.3-42: Identified Borrow Source Locations Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.1.3.1-1: Drill Database Lithological Codes Table 5.1.3.1-3: Geochemistry Testwork Summary
37	5.6	10	Project components	• A description of the tailings management facility (geotechnical properties and foundation conditions for tailings management facility/dams, hazard classification, location, preliminary designs, tailings properties, and tailings water seepage);	1 1	A A	2.2 2.2.3	2.2-1 2.2-17	Proposed Project Description On-site Components and Infrastructure	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Table 2.2.3-27: Samples in Static and Kinetic Geochemical Test Program Table 2.2.3-28: Design and Operating Criteria Table 2.2.3-29: TSF Instrumentation Summary Figure 2.2.3-65: General Arrangement End of Year -2 Plan Figure 2.2.3-66: General Arrangement End of Year -1 Plan Figure 2.2.3-67: General Arrangement End of Year 1 Plan Figure 2.2.3-68: General Arrangement End of Year 3 Plan Figure 2.2.3-69: General Arrangement End of Year 8 Plan Figure 2.2.3-70: General Arrangement End of Year 17 Plan Figure 2.2.3-71: Optional Site C Supernatant Water Storage Figure 2.2.3-72: Schematic of Site D Main Dam Inferred Stratigraphy Figure 2.2.3-73: Schematic of Site C Main Dam Inferred Stratigraphy Figure 2.2.3-74: Schematic of Site C West Dam Inferred Stratigraphy Figure 2.2.3-75: Filling Curve for Site C Figure 2.2.3-76: Filling Curve for Site D Figure 2.2.3-77: TSF Site C Year -2 Construction Plan Figure 2.2.3-78: TSF Site C Year -1 Construction Plan Figure 2.2.3-79: TSF Site D Year -1 Construction Plan Figure 2.2.3-80: TSF Site D Main Dam Staged Expansions Figure 2.2.3-81: Environmental Control Dam and Interception Trenches Figure 2.2.3-82: Site C West Dam Seepage Control Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.5A: Alternatives of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Appendix 5.1.3.1A: 2013 Geochemical Characterization

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										Report (AMEC E&I) (App Volume 13) Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold, 2013) (App Volume 18)
38	5.6	10	Project components	•A description of the waste rock and overburden storage and stock piles (locations, volumes and development plans; geotechnical conditions, seismicity and design criteria and a description of waste water management components of the project);	1 1 2	A A B	2.2 2.2.3 5.1.3.1	2.2-1 2.2-17 5.1.3-1	Proposed Project Description On-site Components and Infrastructure Geology and Geochemistry	Appendix 2.2A – 2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Table 2.2.3-9: Waste Classifications Table 2.2.3-10: Waste Materials and Destinations Table 2.2.3-11: Waste Dump Design Criteria Table 2.2.3-12: Waste Dump and LGO Stockpile Stability Rating Summary Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.1.3.1-1: Drill Database Lithological Codes Table 5.1.3.1-2: Measured, Indicated, and Inferred Resources Table 5.1.3.1-3: Geochemistry Testwork Summary Table 5.1.3.1-4: Acid Rock Drainage Classification of Project Samples Table 5.1.3.1-5: Waste Rock and Overburden Tonnages
39	5.6	10	Project components	A description of open pit and underground mine (development plans including pit phases, phase designs, pit design including slopes, design standards, geotechnical and hydrogeological considerations (e.g. pit wall management));	1 1	A A	2.2 2.2.3	2.2-1 2.2-17	Proposed Project Description On-site Components and Infrastructure	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Figure 2.2.3-39: Pit Slope Recommendations Figure 2.2.3-43: Phased Mine Plan End of Year – 1 Figure 2.2.3-44: Phased Mine Plan End of Year 1 Figure 2.2.3-45: Phased Mine Plan End of Year 3 Figure 2.2.3-46:Phased Mine Plan End of Year 5 Figure 2.2.3-47:Phased Mine Plan End of Year 10 Figure 2.2.3-48:Phased Mine Plan End of Year 17
40	5.6	10	Project components	• A description of water management (pit water and/or underground mine water); and,	1 1 1	A A A	2.2 2.2.3 2.2.3.5	2.2-1 2.2-17 2.2-194	Proposed Project Description On-site Components and Infrastructure Water Management	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Table 2.2.3-30: Sediment Control Pond Locations and Discharge Strategies Table 2.2.3-31: Annual Stochastic Volume of Makeup Water Requirement Figure 2.2.3-83: Project Catchment Area Boundaries Figure 2.2.3-84: Environmental Control Dam Figure 2.2.3-85: Pit Dewatering System

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										Figure 2.2.3-86: Low-Grade Ore Stockpile Water Management Figure 2.2.3-87: Predicted Pond Volumes for TSF C and D Ponds – Average Conditions
41	5.6	10	Project components	• Permanent and temporary access infrastructure, as well as the pipeline and transmission line, identifying the route of each access road, the location and types of structure used for stream crossings.	1 1 1 5	A A A B	2.2 2.2.3 2.2.4 7.2.6	2.2-1 2.2-17 2.2-249 7.2.6-1	Proposed Project Description On-site Components and Infrastructure Off-site Infrastructure Non-Traditional Land Use (Appendix 7.2.6A)	Table 2.2.3-1: Project Components and Facilities – Approximate Dimensions and Capacity Appendix 2.2A-8: Transmission Line Feasibility Study (Knight Piésold Ltd.) (App Volume 1) Appendix 7.2.6A: ERM Rescan Blackwater Gold Project Navigable Waters Baseline Report and Technical Assessment 2014 (ERM Rescan) (Volume 17) Appendix-Supplemental Report on Transmission Line Access Roads (AMEC E&I) (App Volume 19)
42	5.6	10	Project components	In cases where the geotechnical design is based on the observational method, the general nature and geotechnical properties of geological materials will be provided.	1	A	2.2	2.2-1	Proposed Project Description	Appendix 2.2A: Project Description Supporting Reports (App Volume 1) - A-4 Geotechnical Characterization Report (Knight Piésold Ltd.)
43	5.7	10	Project activities	The EIS will include expanded descriptions of the construction, operation, maintenance, foreseeable modifications, and where relevant, closure, decommissioning and restoration of sites and facilities associated with the proposed project.	1 1 1 1	A A A A	2.2.3 2.2.4 2.2.6 2.6	2.2-17 2.2-249 2.2-2670 2.6-1	On-Site Components and Infrastructure Off-site Infrastructure Project Schedule Reclamation and Closure Plan	Table 2.2.6-1: Project Schedule Table 2.2.6-2: Project Activities by Phase Associated with the Mine Site Table 2.2.6-3: Project Activities by Phase Associated with Off-Site Facilities
44	5.7	10	Project activities	This would include detailed descriptions of the activities to be carried out during each phase, the location of each activity, expected outputs and an indication of the activity's magnitude and scale.	1 1 1 1	A A A A	2.2 2.2.3 2.2.6 2.6	2.2-1 2.2-17 2.2-270 2.6-1	Proposed Project Description On-site Components and Infrastructure Project Schedule Reclamation and Closure Plan	Table 2.2.6-1: Project Schedule Table 2.2.6-2: Project Activities by Phase Associated with the Mine Site Table 2.2.6-3: Project Activities by Phase Associated with Off-Site Facilities Figure 2.2.3-43: Phased Mine Plan – End of Year -1 Figure 2.2.3-44: Phased Mine Plan – End of Year 1 Figure 2.2.3-45: Phased Mine Plan – End of Year 3 Figure 2.2.3-46: Phased Mine Plan – End of Year 5 Figure 2.2.3-47: Phased Mine Plan – End of Year 10 Figure 2.2.3-48: Phased Mine Plan – End of Year 17 Figure 2.2.3-65: General Arrangement End of Year -2 Plan Figure 2.2.3-66: General Arrangement End of Year -1 Plan Figure 2.2.3-67: General Arrangement End of Year 1 Figure 2.2.3-68: General Arrangement End of Year 3 Plan Figure 2.2.3-69: General Arrangement End of Year 8 Plan Figure 2.2.3-70: General Arrangement End of Year 17 Plan Figure 2.2.3-75: Filling Curve for Site C Figure 2.2.3-76: Filling Curve for Site D Figure 2.2.3-77: TSF Site C Year -2 Construction Plan Figure 2.2.3-78: TSF Site C Year -1 Construction Plan Figure 2.2.3-79: TSF Site D Year -1 Construction Plan

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										Figure 2.2.3-80: TSF Site D Main Dam Staged Expansions Figure 2.2.3-88: Inbound Volumes by Quarter Figure 2.2.3-89: Inbound Volumes – Mining Equipment Figure 2.2.3-90: Inbound Volumes by Quarter – Construction Materials and Equipment Figure 2.2.3-91: Inbound Volumes of Fuel Per Quarter
45	5.7	10	Project activities	Although a complete list of project activities is required, the emphasis will be on activities with the greatest potential to have environmental effects. Sufficient information will be included to predict environmental effects and address public concerns identified. Highlight activities that involve periods of increased environmental disturbance or the release of materials into the environment.	1 2	A B	2.2 4	2.2-1 4-1	Proposed Project Description Assessment Methodology	Table 4.3-2: Project Component and Activity Interaction Matrix for Selected VCs
46	5.7	10	Project activities	The EIS will include a detailed schedule including time of year, frequency, and duration for all project activities.	1	A	2.2.6	2.2-269	Project Schedule	Table 2.2.6-1: Project Schedule Table 2.2.6-2: Project Activities by Phase Associated with the Mine Site Table 2.2.6-3: Project Activities by Phase Associated with Off-Site Facilities
47	5.7	10	Project Activities	The EIS will provide the preliminary outline of a decommissioning and reclamation plan for any components associated with the project. This will include ownership, transfer and control of the different project components as well as the responsibility for monitoring and maintaining the integrity of some of the structures. The plan would serve to provide guidance on specific actions and activities to be implemented to decrease the potential for environmental degradation in the long-term during decommissioning and abandonment activities for temporary facilities, and to clearly define the proponent's ongoing environmental commitments. A conceptual discussion on how decommissioning could occur will be provided for permanent facilities.	1	A	2.6	2.6-1	Reclamation and Closure Plan	Table 2.6-1: Invasive Plants Documented by the Invasive Alien Plant Program (IAPP)* Table 2.6-2: Estimated Areas of Blackwater Gold Mine On-site and Off-site Project Components Table 2.6-3: Waste Production Schedule and Destinations Table 2.6-4: Median Concentrations of Hg and Se in Mine Waste and Ore (ABA Database) Table 2.6-5: Soil Volume (m^3) Available for Salvaging at the Mine Footprint, Rated According to Suitability for Reclamation Table 2.6-6: Capping Material Requirements Table 2.6-7: Preliminary Native Plant Species for Reclamation of Mine-Related Landforms Table 2.6-8: Preliminary Species Mix for Reclamation of Mine Components into Natural Landforms Table 2.6-9: Proposed Species Composition for Erosion Control Seed Mixes Table 2.6-10: Areas for Revegetation in Mine-Related Landforms Table 2.6-11: Reclamation Performance Standards during Construction, Operations, Closure, and Post-Closure Phases Table 2.6-12: Proposed Closure and Post-Closure Biophysical Monitoring Program Table 2.6-13: Estimated Project Closure and Reclamation Cost Table 2.6-14: Salvage Value of Mining Equipment Figure 2.6-1: Distribution of Biogeoclimatic Subzones and

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										Variants Figure 2.6-2: Proposed Mine Site Facilities and Offsite General Arrangement Figure 2.6-3: Year 14 Prior to Final Reclamation Figure 2.6-4: Final Reclaimed Waste Dumps, LGS and Pit Lake Area Figure 2.6-5: Location of Proposed Mine Site, Mine Access Road, Transmission Line, and Freshwater Supply Pipeline Figure 2.6-6: Year 17 – Conceptual End of Operations Figure 2.6-7: Conceptual Post-Closure with Spillway Figure 2.6-8: General Arrangement Closure End of Year 35 Figure 2.6-9: Inter-Ramp Slope Angles Final Pit Figure 2.6-10: Site D Tailings Placement Year 17 Site C Water Reservoir Option Figure 2.6-11: Soil Quality and Mine Components Year 1 to 17 Figure 2.6-12: Slope Steepness in the Mine Site Study Area Figure 2.6-13: Mine Site Revegetation – Year 35 Figure 2.6-14: General Arrangement End of Year 8 Plan Figure 2.6-15: General Arrangement End of Year 17 Plan Appendix 2.6A: Estimated Suitable and Unsuitable Soil Volumes by Project Components (AMEC E&I) (App Volume 3) Appendix 2.6B: Capping Material Requirements by Project Components (App Volume 3) Appendix 2.6C: Wetland Water Treatment (Clear Coast Consulting Inc.) (App Volume 3) Appendix 2.6D: Permeable Reactive Barrier Treatment (Lorax Environmental) (App Volume 3) Appendix 2.6E: Pit Lake Treatment (Lorax Environmental) (App Volume 3) Appendix 2.6F: Characteristics of Plant Species for Revegetation (AMEC E&I) (App Volume 3)
SECTION 6 - SCOPE OF PROJECT										
48	6	10 & 11	Scope of the Project	The scope of project for the purposes of the EA includes the components (section 5.6), physical activities (section 5.7) and federal decisions (section 5.2). The proponent will consider all the components, activities and decisions identified in these sections as part of the effects assessment. Based on information received in the project description from the proponent, the Agency defines the scope of project to be assessed as the construction, operation and decommissioning of the following project components: • Open-pit mine; • Waste rock and overburden dumps (non-acidic and potentially acid-generating);	1	A	2.4	2.4-1	Federal Scope of Assessment of the Proposed Project	The Proponent has advised CEAA that a Railway line/spur is no longer being considered as a component of the Project. Appendix 2.4A: Project Determination Letters (App Volume 2) Appendix 2.4B: Environmental Impact Statement Guidelines, 19 February 2013 (App Volume 3)

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				• Low grade ore stock pile; • Sewage water management facility; • Construction laydown area; • Truck shop; • Fuel storage facilities; • Storage of dangerous goods other than oil and gas; • Tailings storage facility; • Processing plant facility; • Explosives manufacturing and storage facility; • Construction and operations camps; • Top soil stockpiles; • Core logging area; • Air strip and air transportation service buildings; • Railway line/spur; • Trans-load facility; • Water supply intake, pump stations, pipeline and associated access roads; • Temporary or permanent water diversions; • Waste storage and disposal (hazardous and non-hazardous); • Sedimentation/settling ponds; • Power generator; • Transmission line and right of way and associated access roads; • Temporary access roads during construction; and, • Mine access road.						
SECTION 7 - SCOPE OF ASSESSMENT										
49	7.1.1	11	Valued components	Valued components (VCs) refer to attributes associated with the project that have been identified to be of concern by the proponent, government agencies, Aboriginal peoples and/or the public. The value of a component not only relates to its role in the ecosystem, but also to the value placed on it by humans. The proponent will identify the VCs deemed appropriate to ensure the full consideration of the factors listed in subsection 19(1) of CEAA, 2012 as well as the 2012 amendment to section 79 of the Species at Risk Act. A list of minimum required VCs are provided in section 9.1 of this document. This list will be completed according to the evolution and design of the project and reflect the knowledge acquired on the environment through public and Aboriginal consultations. The proponent will describe how other VCs were selected and what methods were used to predict	2 2 3 4 5 5 5 5	B B B B B B B B	4.2 5.2.1 5.3.1 5.4.1 6.2.1 7.2.1 8.2.1 9.2.1	4-11 5.2.1-1 5.3.1-1 5.4.1-1 6-11 7.2.1-1 8-8 9-22	Section on "Identification and Selection of Valued Components" and under each Valued Component	Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Table 5.2.1-1: Candidate Valued Component Rationale Table 5.2.1-2: Evaluation of Candidate Valued Components Table 5.2.1-3: Selected Valued Components and Rationale of Indicators and/or Factor Table 5.3.1-1: Candidate Valued Component Rationale Table 5.3.1-2: Evaluation of Candidate Valued Components Table 5.3.1-3: Candidate Valued Components Not Selected Table 5.3.1-4: Selected Valued Components and Rationale of Indicators and/or Factor Table 5.4.1-1: Candidate Valued Component Rationale Table 5.4.1-2: Evaluation of Candidate Valued Components Table 5.4.1-3: Candidate Valued Components Not Selected Table 5.4.1-4: Selected Valued Components and Rationale of Indicators and/or Factor

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				and assess the adverse environmental effects of the project on these components. The VCs will be described in sufficient detail to allow the reviewer to understand their importance and assess the potential for environmental effects arising from the project activities. The rationale for selecting these components as VCs and for excluding others will be stated. Challenges may arise regarding particular exclusions, so it is important to document the information and the criteria used to make each determination. Examples of justification include primary data collection, computer modelling, literature references, public consultation, expert input or professional judgement. If comments are received on a component that has not been included as a VC, these comments will be summarised and addressed in this section. For consultations associated with the identification of VCs, the proponent will identify those VCs, processes, and interactions that either were identified to be of concern during any workshops or meetings held by the proponent or that the proponent considers likely to be affected by the project. In doing so, the proponent will indicate to whom these concerns are important and the reasons why, including Aboriginal, social, economic, recreational, and aesthetic considerations.						Table 6.2.1-1: Candidate Valued Component Rationale Table 6.2.1-2: Evaluation of Candidate Valued Components Table 6.2.1-3: Selected Valued Components and Rationale of Indicators and/or Factor Table 7.2.1-1: Candidate Valued Component Rationale Table 7.2.1-2: Evaluation of Candidate Valued Components Table 7.2.1-3: Candidate Valued Components Not Selected Table 7.2.1-4: Selected Valued Components and Rationale of Indicators and/or Factor Table 8.2-1: Candidate Valued Component Rationale Table 8.2-2: Evaluation of Candidate Valued Components Table 8.2-3: Selected Valued Components and Rationale of Indicators and/or Factor Table 9.2-1: Candidate Valued Component Rationale Table 9.2-2: Evaluation of Candidate Valued Components Table 9.2-3: Selected Valued Components and Rationale of Indicators and/or Factor
50	7.1.1	12	Valued components	The proponent will describe any issues raised or comments noted regarding the nature and sensitivity of the area within and surrounding the project and any planned or existing land and water use in the area. The proponent will also indicate the specific geographical areas or ecosystems that are of particular concern to interested parties, and their relation to the broader regional environment and economy.	2 2 5 6	A B B C	3 4.2 7.2.6 17	3-1 4-11 7.2.6-1 17-1	Assessment Process Identification and Selection of Valued Components Non-Traditional Land and Resource Use Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Table 17.3.1-1: Key Issues, Concerns, and Interests Expressed by Lhoosk'uz Dene Nation and Responses Provided by the Proponent Table 17.3.2-1: Key Issues, Concerns, and Interests Expressed by Nadleh Whut'en First Nation and Responses Provided by the Proponent Table 17.3.3-1: Key Issues, Concerns, and Interests Expressed by Saik'uz First Nation and Responses Provided by the Proponent Table 17.3.4-1: Key Issues, Concerns, and Interests Expressed by Stellat'en First Nation and Responses Provided by the Proponent Table 17.3.5-1: Key Issues, Concerns, and Interests

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										Expressed by Ulkatcho First Nation and Responses Provided by the Proponent Table 17.3.6-1: Key Issues, Concerns, and Interests Expressed by Nazko First Nation and Responses Provided by the Proponent Table 17.3.7-1: Key Issues, Concerns, and Interests Expressed by Skin Tyee Nation and Responses Provided by the Proponent Table 17.3.8-1: Key Issues, Concerns, and Interests Expressed by Tsilhqot'in National Government and Responses Provided by the Proponent Table 17.3.9-1: Key Issues, Concerns, and Interests Expressed by Métis Nation BC and Responses Provided by the Proponent
51	7.1.2	12	Effects of potential accidents or malfunctions	The proponent will identify the probability of potential accidents and malfunctions related to the project, including an explanation of how those events were identified, potential consequences (including the environmental effects), the plausible worst case scenarios and the effects of these scenarios.	5 5 5 5 5	B B B B B	10.7.1 10.7.1.1 10.7.1.2 10.7.2 10.7.3	10-7 10-7 10-8 10-8 10-16	Risk Assessment Framework Temporal Boundaries Spatial Boundaries Methodology Risk Summary	Table 10.7.2-1: Definitions for Likelihood of Occurrence of an Accident or Malfunction Table 10.7.2-2: Definitions for Consequence of Occurrence of an Accident or Malfunction Table 10.7.2-3: Definitions for Overall Risk Scores Table 10.7.2-4: Accidents and Malfunctions Risk Summary
52	7.1.2	12	Effects of potential accidents or malfunctions	The geographical and temporal boundaries for the assessment of malfunctions and accidents may be different than those in the scope of factors for each VC. This will include an identification of the magnitude of an accident and/or malfunction, including the quantity, mechanism, rate, form and characteristics of the contaminants and other materials likely to be released into the environment during the accident and malfunction events.	5 5 5 5 5 5	B B B B B B	10.7.1 10.7.1.1 10.7.1.2 10.7.2 10.7.3 10.10	10-7 10-7 10-8 10-8 10-16 10-60	Risk Assessment Framework Temporal Boundaries Spatial Boundaries Methodology Risk Summary Potential for Cumulative Effects	Table 10.7.2-1: Definitions for Likelihood of Occurrence of an Accident or Malfunction Table 10.7.2-2: Definitions for Consequence of Occurrence of an Accident or Malfunction Table 10.7.2-3: Definitions for Overall Risk Scores Table 10.7.2-4: Accidents and Malfunctions Risk Summary
53	7.1.2	12	Effects of potential accidents or malfunctions	The EIS will also describe the safeguards that have been established to protect against such occurrences and the contingency/emergency response procedures in place if accidents and/or malfunctions do occur. Detailed contingency and response plans will be presented.	5 5 5 5 5 5 5 5 5 5 5 5 5 5	B B B B B B B B B B B B B B	10 10.8.1.1.3 10.8.1.2.6 10.8.1.3.3 10.8.1.4.3 10.8.1.5.3 10.8.1.6.3 10.8.2.1.3 10.8.2.2.3 10.8.2.3.3 10.8.2.4.3 10.8.2.5.3 10.8.2.6.3 10.8.2.7.3 10.8.2.8.3	10-1 10-19 10-25 10-32 10-33 10-35 10-36 10-39 10-40 10-41 10-43 10-44 10-46 10-49 10-51	Accidents or Malfunctions Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures	

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					5 5 5 5 5 6 6	B B B B B B B	10.8.2.9.3 10.8.2.10.3 10.8.3.1.3 10.8.3.2.3 10.8.3.3.3 12.2.1 12.2.2	10-53 10-54 10-56 10-57 10-58 12.2.1-1 12.2.2-1	Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Construction and Operations Management Plan Closure Management Plan	
54	7.1.3	12	Effects of the environment on the project	The EIS will take into account how local conditions and natural hazards, such as severe and/or extreme weather conditions and external events (e.g. flooding, ice jams, landslides, avalanches, erosion, subsidence, fire, outflow conditions and seismic events) could adversely affect the project and how this in turn could result in impacts to the environment (e.g., extreme environmental conditions result in malfunctions and accidental events). These events will be considered in different probability patterns (i.e. 5-year flood vs. 100-year flood).	1 5	A B	2.2.3.4.7 11	2.2-171 11-1	Geohazards Potential Effects of the Environment on the Project	Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2A-2: Section 3.5.2: Regional Tectonics and Seismicity and Appendix B: Seismic Hazard Assessment Appendix 11A: Backwater Project - Reconnaissance Terrain and Terrain Stability Mapping Rev0. (Knight Piésold, 2013) (App Volume 18) Appendix 11B: Forest Fire Record 1980 to 2012 for the Vanderhoof Forest District (App Volume 18) Figure 11.6.2-1: 2010 Seismic Hazard Map – Geological Survey of Canada Figure 11.7.1-1: Nazko Cone and the Satah Mountain General Location Figure 11.8.1-1: Vanderhoof Forest District Figure 11.8.1-2: Record of the Total and Average Amount of Hectares Burned by Forest Fires in the Vanderhoof Forest District between 1980 and 2012 (Prince George Fire Centre, 2013a) Table 11.6.2-1: Summary of Soil Associations in the Project

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										Study Area Table 11.11.1-1: Summary of Predicted Climate Change in BC
55	7.1.3	12	Effects of the environment on the project	Longer-term effects of climate change will also be discussed up to the projected post-closure phase of the project. This discussion will include a description of climate data used. The EIS will provide details of a number of planning, design and construction strategies intended to minimize the potential environmental effects of the environment on the project.	3 5	B B	5.3.2.1 11	5.3.2-1 11-1	Surface Water Flow - Introduction Potential Effects of the Environment on the Project	Table 11.11.1-1: Summary of Predicted Climate Change in BC
56	7.2	13	Scope of the factors	Scoping establishes the boundaries of the EA and focuses the assessment on relevant issues and concerns. The spatial and temporal boundaries used in the EA may vary depending on the VC. The EIS will clearly indicate the spatial boundaries to be used in assessing the potential adverse environmental effects of the proposed project and provide a rationale for each boundary. It is recognized that the spatial boundaries for each VC may not be the same. Spatial boundaries will be defined taking into account as applicable the appropriate scale and spatial extent of potential environmental effects, community and Aboriginal traditional knowledge, current land and resource use by Aboriginal groups, ecological, technical and social and cultural considerations. The description of the project setting will be presented in sufficient detail to address the relevant environmental effects of the project.	2	B	4.3.1	4-16	Assessment Boundaries	Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
57	7.2.1	13	Spatial boundaries	The proponent is advised to consult with the Agency, federal and provincial government departments and agencies, local government and Aboriginal groups, and take into account public comment when defining the spatial boundaries used in the EIS.	2 2 6	A B C	3 4.3.1 17	3-1 4-16 17-1	Assessment Process Assessment Boundaries Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C: Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 3.4.1A: Public Consultation Plan (Context Research Ltd.) (App Volume 4) Table 3.3-4: Key Comments and Concerns Expressed by Aboriginal Groups and Responses Table 3.4-5: Key Comments and Concerns Expressed by the

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										Public and Local Government Agencies and Responses Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale Table 17.3.1-1: Key Issues, Concerns, and Interests Expressed by Lhoosk'uz Dene Nation and Responses Provided by the Proponent Table 17.3.2-1: Key Issues, Concerns, and Interests Expressed by Nadleh Whut'en First Nation and Responses Provided by the Proponent Table 17.3.3-1: Key Issues, Concerns, and Interests Expressed by Saik'uz First Nation and Responses Provided by the Proponent Table 17.3.4-1: Key Issues, Concerns, and Interests Expressed by Stellat'en First Nation and Responses Provided by the Proponent Table 17.3.5-1: Key Issues, Concerns, and Interests Expressed by Ulkatcho First Nation and Responses Provided by the Proponent Table 17.3.6-1: Key Issues, Concerns, and Interests Expressed by Nazko First Nation and Responses Provided by the Proponent Table 17.3.7-1: Key Issues, Concerns, and Interests Expressed by Skin Tyee Nation and Responses Provided by the Proponent Table 17.3.8-1: Key Issues, Concerns, and Interests Expressed by Tsilhqot'in National Government and Responses Provided by the Proponent Table 17.3.9-1: Key Issues, Concerns, and Interests Expressed by Métis Nation BC and Responses Provided by the Proponent
58	7.2.2	13	Temporal boundaries	The temporal boundaries of the EA will span all phases of the project: construction, operation, maintenance, foreseeable modifications, and where relevant, closure, decommissioning and restoration of the sites affected by the project. Temporal boundaries will also consider seasonal and annual variations related to VCs for all phases of the project, where appropriate. Community and Aboriginal traditional knowledge should factor into decisions around appropriate temporal boundaries. If the temporal boundaries do not span all phases of the project, the EIS will identify the boundaries used and provide a rationale.	2	B	4.3.1.2	4-23	Temporal Boundaries	

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SECTION 8 - ALTERNATIVE MEANS OF CARRYING OUT THE PROJECT										
59	8	13	Alternative Means of carrying out the Project	The EIS will identify and consider the effects of alternative means of carrying out the project that are technically and economically feasible. The proponent will complete the following procedural steps for addressing alternative means:	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
60	8	13	Alternative Means of carrying out the Project	*Identify the alternative means to carry out the project*. • Develop criteria to determine the technical and economic feasibility of the alternative means; and,	1	A	2.5.1.2	2.5-2	Assessment of Alternative Means Methodology	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
61	8	13	Alternative Means of carrying out the Project	• Identify those alternative means that are technically and economically feasible, describing each alternative means in sufficient detail.	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	Appendix 2.2A-8: Transmission Line Feasibility Study (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2B: Transmission Line Alternatives Presentation Notes (AMEC E&I) (App Volume 3) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.11-1: Freshwater Supply Pipeline Figure 2.5.14-1: Identified Borrow Source Locations Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives Figure 2.5.19-1: Existing and Proposed Camps
62	8	14	Alternative Means of carrying out the Project	Identify the effects of each alternative means. • Identify those elements of each alternative means that could produce effects in sufficient detail to allow a comparison with the effects of the project; and,	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.11-1: Freshwater Supply Pipeline Figure 2.5.14-1: Identified Borrow Source Locations Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives Figure 2.5.19-1: Existing and Proposed Camps
63	8	14	Alternative Means of carrying out the Project	• The effects referred to above include both environmental effects and potential adverse	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect

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				impacts on potential or established Aboriginal and Treaty rights and related interests.						Alternatives Figure 2.5.11-1: Freshwater Supply Pipeline Figure 2.5.14-1: Identified Borrow Source Locations Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives Figure 2.5.19-1: Existing and Proposed Camps
64	8	14	Alternative Means of carrying out the Project	Identify the preferred means. • Identify the preferred means based on the relative consideration of effects; and of technical and economic feasibility; and, • Determine criteria to examine the effects of each remaining alternative means to identify the preferred means.	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	Appendix 2.2A-8: Transmission Line Feasibility Study (Knight Piésold Ltd.) (App Volume 1) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.11-1: Freshwater Supply Pipeline Figure 2.5.14-1: Identified Borrow Source Locations Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives Figure 2.5.19-1: Existing and Proposed Camps
65	8	14	Alternative Means of carrying out the Project	In its alternative means analysis, the proponent will address, as a minimum, the following project components: • Ore production technologies: open-pit extraction method; ore processing methods; waste rock and tailings disposal; contaminated water treatment; ore transportation, etc.;	1 1 1 1 1 1 1 1 1	A A A A A A A A A	2.5 2.5.3 2.5.4 2.5.5 2.5.6 2.5.7 2.5.8 2.5.9 2.5.10	2.5-1 2.5-12 2.5-14 2.5-16 2.5-17 2.5-17 2.5-19 2.5-25 2.5-30	Alternative Means of Undertaking the Proposed Project Mining Overburden and Low Metal Leaching NAG Mine Rock Management PAG and Metal Leaching Mine Rock Management Low Grade Ore Stockpile Ore and Mine Rock Transportation Ore Processing Process Plant Effluent Management Tailings Disposal Management	Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives
66	8	14	Alternative Means of carrying out the Project	• Energy sources for the mine complex operations;	1 1	A A	2.5 2.5.13	2.5-1 2.5-38	Alternative Means of Undertaking the Proposed Project Power Supply	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives

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67	8	14	Alternative Means of carrying out the Project	• Location of infrastructure related to the mine and the operation of the mine, including the location of the final effluent discharge point;	1 1 1 1 1 1 1 1 1 1 1 A	A A A A A A A A A A A A	2.5 2.5.6 2.5.9 2.5.11 2.5.12 2.5.13 2.5.14 2.5.15 2.5.16 2.5.17 2.5.18 2.5.19	2.5-1 2.5-17 2.5-25 2.5-32 2.5-35 2.5-38 2.5-41 2.5-46 2.5-49 2.5-52 2.5-57 2.5-63	Alternative Means of Undertaking the Proposed Project Low Grade Stockpile Process Plant Effluent Management Fresh Water Supply Aggregate Sources Solid Waste Management Power Supply Aggregated Sources Project Access and Transportation Routes Mine Access Alternatives Airstrip Transmission Line Routing Operations Worker Accommodations	Appendix 2.2A-8: Transmission Line Feasibility Study (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2B: Transmission Line Alternatives Presentation Notes (AMEC E&I) (App Volume 3) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.11-1: Freshwater Supply Pipeline Figure 2.5.14-1: Identified Borrow Source Locations Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives Figure 2.5.19-1: Existing and Proposed Camps
68	8	14	Alternative Means of carrying out the Project	• Location and layout of the air strip, mine access roads and transmission line;	1 1 1 1 1	A A A A A	2.5 2.5.15 2.5.16 2.5.17 2.5.18	2.5-1 2.5-46 2.5-49 2.5-52 2.5-57	Alternative Means of Undertaking the Proposed Project Project Access and Transportation Routes Mine Access Alternatives Airstrip Transmission Line Routing	Appendix 2.2A-8: Transmission Line Feasibility Study (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2B: Transmission Line Alternatives Presentation Notes (AMEC E&I) (App Volume 3) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3) Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options Figure 2.5.17-1: Airfield Candidate Locations Figure 2.5.18-1: Transmission Line Routing Alternatives
69	8	14	Alternative Means of carrying out the Project	• Transportation routes for processed ore and any other goods needed to operate the mine; and,	1 1 1	A A A	2.5 2.5.15 2.5.16	2.5-1 2.5-46 2.5-49	Alternative Means of Undertaking the Proposed Project Project Access and Transportation Routes Mine Access Alternatives	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.15-1: Access Road Alternatives Figure 2.5.16-1: Mine Access Options
70	8	14	Alternative Means of carrying out the Project	• Worker accommodations and transportation.	1 1 1	A A A	2.5 2.5.19 2.5.20	2.5-1 2.5-63 2.5-68	Alternative Means of Undertaking the Proposed Project Operations Worker Accommodations Worker Transport	Table 2.5.1-1: Screening Assessment of Potential Aspect Alternatives Figure 2.5.19-1: Existing and Proposed Camps

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SECTION 9 - BASELINE CONDITIONS										
71	9.1.1	16	Methodology	The EIS will include a description of the environment, including: - the components of the existing environment and environmental processes, - their interrelations and interactions - the variability in these components, processes and interactions over time scales appropriate to the project The description will be sufficiently detailed to characterize the environment before any disturbance to the environment due to the project and to identify, assess and determine the significance of the potential adverse environmental effects of the project. This data should include results from studies done prior to any physical disruption of the environment due to initial site clearing activities. The information describing the existing environment may be provided in a stand-alone chapter of the EIS or may be integrated into clearly defined sections within the effects assessment of each VC. This analysis will include environmental conditions resulting from historical and present activities in the local and regional study area. In describing the physical and biological environment, the proponent will take an ecosystem approach that considers both scientific and traditional knowledge and perspectives regarding ecosystem health and integrity.	2 2 5 5 5 5	B B B B B B	4.1 5.1 6.1 7.1 8.1 9.1	4-2 5.1.1-1 6-1 7.1-1 8-1 9-1	General Approach Environmental Baseline Economic Baseline Social Baseline Heritage Baseline Health Baseline	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.1.3A: Noise and Vibration 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6) Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.1.2.4A: Blackwater Gold Project – 2012 Groundwater Quality Data Collection Summary (Knight Piésold Ltd.) (App Volume 8) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.5A: Wetlands 2011 – 2013 Wetlands Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Appendix 5.1.2.6E: Blackwater Gold Project Effects Assessment of Davidson Creek Flow Augmentation on Homing of Salmonid Fish (AMEC E&I) (App Volume 12) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.3.2A: Soils, and Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.3A: Vegetation 2011- 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 5.3.2D: Tatelkuz Lake Levels for Mine Life Scenarios – Revised (Knight Piésold Ltd.) (App Volume 15) Appendix 6.1A: Economic 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I)

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72	9.1.1	16	Methodology	The proponent will identify and justify the indicators and measures of ecosystem health and integrity used for analysis and relate these to the identified VCs and proposed monitoring and follow-up measures.	2 2 3 3 5 5 5 5 6	B B B B B B B B B	4.2 5.2.1 5.3.1 5.4.1 6.2.1 7.2.1 8.2.1 9.2.1 13	4-11 5.2.1-1 5.3.1-1 5.4.1-1 6-11 7.2.1-1 8-8 9-22 13-1	Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Identification and Selection of Valued Components Follow-up Monitoring and Compliance Reporting	Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale
73	9.1.1	16	Methodology	For the biophysical environment, baseline data in the form of inventories alone are not sufficient to assess effects. The proponent will consider the resilience of relevant species populations, communities and their habitats.	2 2 2	B B B	5.1.1 5.1.2 5.1.3	5.1.1-1 5.1.2-1 5.1.3-1	Atmospheric and Acoustic Environment Aquatic Environment Terrestrial Environment	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.1.3A: Noise and Vibration 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6) Appendix 5.1.2.5A Wetlands 2011 – 2013 Baseline Report

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74	9.1.1	16	Methodology	The proponent will summarize all pertinent historical information on the size and geographic extent of relevant animal populations as well as density, based on best available information.	2 2	B B	5.1.2 5.1.3	5.1.2-1 5.1.3-1	Aquatic Environment Terrestrial Environment	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15)
75	9.1.1	16	Methodology	Where little or no information is available, specific studies will be designed to gather further information on species populations, densities and the interrelations of these species to the ecosystem.	2 2	B B	5.1.2 5.1.3	5.1.2-1 5.1.3-1	Aquatic Environment Terrestrial Environment	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15)
76	9.1.1	16	Methodology	Habitat at regional and local scales should be defined in ecological mapping of aquatic and terrestrial vegetation types and species (e.g. ecological land classification mapping).	2 2 3 3 3 4 4 4 4 4 4 4 4 4	B B B B B B B B B B B B B B	5.1.2 5.1.3 5.3.7 5.3.8 5.3.9 5.4.7 5.4.8 5.4.9 5.4.10 5.4.11 5.4.12 5.4.13 5.4.14 5.4.15	5.1.2-1 5.1.3-1 5.3.7-1 5.3.8-1 5.3.9-1 5.4.7-1 5.4.8-1 5.4.9-1 5.4.10-1 5.4.11-1 5.4.12-1 5.4.13-1 5.4.14-1 5.4.15-1	Aquatic Environment Terrestrial Environment Wetlands Fish Fish Habitat Amphibians Water Birds Forest and Grassland Birds Moose Caribou Grizzly Bear Furbearers Bats Invertebrates	Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15)

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77	9.1.1	16	Methodology	Habitat use will be characterized by type of use (e.g. spawning, breeding, migration, feeding, nursery, rearing, wintering), frequency and duration.	2 2 3 3 3 4 4 4 4 4 4 4 4	B B B B B B B B B B B B B	5.1.2 5.1.3 5.3.7 5.3.8 5.3.9 5.4.7 5.4.8 5.4.9 5.4.10 5.4.11 5.4.12 5.4.13 5.2.14 5.4.15	5.1.2-1 5.1.3-1 5.3.7-1 5.3.8-1 5.3.9-1 5.4.7-1 5.4.8-1 5.4.9-1 5.4.10-1 5.4.11-1 5.4.12-1 5.4.13-1 5.4.14-1 5.4.15-1	Aquatic Environment Terrestrial Environment Wetlands Fish Fish Habitat Amphibians Water Birds Forest and Grassland Birds Moose Caribou Grizzly Bear Furbearers Bats Invertebrates	Appendix 5.1.2.5A : Wetlands 2011-2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
78	9.1.1	16	Methodology	This assessment will cover all relevant seasonal variations in the use by all VCs as appropriate.	2 2 2 2	B B B B	4.1 5.1.1 5.1.2 5.1.3	4-2 5.1.1-1 5.1.2-1 5.1.3-1	General Approach Atmospheric and Acoustic Environment Aquatic Environment Terrestrial Environment	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.1.3A: Noise and Vibration 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.2.5A: Wetlands 2011-2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
79	9.1.1	16	Methodology	Emphasis will be on those species, communities and processes identified as VCs. However, the interrelations of these components and their relation to the entire ecosystem and communities of which they are a part will be indicated (e.g. population level risk assessment).	2 2 2 2 3 3 3 4 4 4 4 4 4 4	B B B B B B B B B B B B B B	4.1 4.2 5.1.2 5.1.3 5.3.7 5.3.8 5.3.9 5.4.7 5.4.8 5.4.9 5.4.10 5.4.11 5.4.12 5.4.13	4-2 4-11 5.1.2-1 5.1.3-1 5.3.7-1 5.3.8-1 5.3.9-1 5.4.7-1 5.4.8-1 5.4.9-1 5.4.10-1 5.4.11-1 5.4.12-1 5.4.13-1	General Approach Identification and Selection of Valued Components Aquatic Environment Terrestrial Environment Wetlands Fish Fish Habitat Amphibians Water Birds Forest and Grassland Birds Moose Caribou Grizzly Bear Furbearers	Table 4.2-1: Selected Valued Components and Indicators, by Assessment Pillar and Subject Area Table 4.3-1: Valued Components by Subject Area and Proposed Spatial Boundaries Description and Rationale

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					4 4	B B	5.2.14 5.4.15	5.4.14-1 5.4.15-1	Bats Invertebrates	
80	9.1.1	16	Methodology	The proponent will address issues such as habitat, nutrient and chemical cycles, food chains, productivity, to the extent that they are appropriate to understanding the effect of the project on ecosystem health and integrity.	2 2 5	B B B	5.1.2 5.1.3 9.1	5.1.2-1 5.1.3-1 9-1	Aquatic Environment Terrestrial Environment Health Baseline	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6) Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.2A: Soils, and Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 9.1.A: Environmental Health Baseline Report (App Volume 17)
81	9.1.1	16	Methodology	Range and probability of natural variation over time will also be considered.	2 2 2	B B B	4.1 5.1.2 5.1.3	4-2 5.1.2-1 5.1.3-1	General Approach Aquatic Environment Terrestrial Environment	Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6) Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.2A: Soils, and Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 9.1.A: Environmental Health Baseline Report (App Volume 17)
82	9.1.1	16	Methodology	The proponent will also examine changes in the distribution, populations, behaviour, and availability of wildlife, fish, and flora in the important context of implications to current use of lands and resources by Aboriginal peoples.	2 2 5 5	B B B B	5.1.2 5.1.3 7.1.3 7.2.7	5.1.2-1 5.1.3-1 7.1-17 7.2.7-1	Aquatic Environment Terrestrial Environment Current Land and Resource Use for Traditional Purposes Social Baseline Current Land and Resource Use for Traditional Purposes	

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83	9.1.1	16	Methodology	If the baseline data have been extrapolated or otherwise manipulated to depict environmental conditions in the study areas, modelling methods and equations will be described and will include calculations of margins of error and other relevant statistical information, such as confidence intervals and possible sources of error.	2 5 5 5 5	B B B B B	5.1 6.1 7.1 8.1 9.1	5.1-1 6-1 7.1-1 8-1 9-1	Environmental Baseline Economic Baseline Social Baseline Heritage Baseline Health Baseline	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.1.3A: Noise and Vibration 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6) Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.1.2.4A: Blackwater Gold Project – 2012 Groundwater Quality Data Collection Summary (Knight Piésold Ltd.) (App Volume 8) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.5A: Wetlands 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011 – 2012 Baseline Report (AMEC E&I) (Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.3A: Vegetation 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 6.1A: Economic 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.4A Visual Resources 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.2.6A: Blackwater Gold Project Navigable Waters Baseline Report and Technical Assessment 2014 (ERM Rescan) (App Volume 17) Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC

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										E&I) (App Volume 17) Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17)
84	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	The EIS will describe the following: Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: - Total Suspended Particulates	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.4-1: Background Concentrations Table 5.2.4-6: Maximum Predicted Ground-Level Concentrations of PM Table 5.2.4-7: Frequency of Exceedances of PM Figure 5.2.4-1: Maximum Predicted 24-hour Average Ground-level TSP Concentrations (ug/m^3) Associated with the Project with Background Concentration Figure 5.2.4-2: Maximum Predicted Annual Average Ground-level TSP Concentrations (ug/m^3) Associated with the Project with Background Concentration
85	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: - $PM_{2.5}$	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.4-1: Background Concentrations Table 5.2.4-6: Maximum Predicted Ground-Level Concentrations of PM Table 5.2.4-7: Frequency of Exceedances of PM Figure 5.2.4-4: Maximum Predicted Annual Average Ground-level PM2.5 Concentrations (ug/m^3) Associated with the Project with Background Concentration
86	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: - PM_{10}	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.4-1: Background Concentrations Table 5.2.4-6: Maximum Predicted Ground-Level Concentrations of PM Table 5.2.4-7: Frequency of Exceedances of PM Figure 5.2.4-3: Maximum Predicted 24-hour Average Ground-level PM10 Concentrations (ug/m^3) Associated with the Project with Background Concentration
87	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15) Table 5.2.4-1: Background Concentrations

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				contaminants: - So_x						Table 5.2.4-3: Maximum Predicted Ground-Level Concentrations of SO_2
88	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: - VOCs	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 15)
89	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	The EIS will describe the following: Ambient air quality in the project areas and, for the mine site, the results of a baseline survey of ambient air quality, including the following contaminants: - No_x	2 2	B B	5.1.1.2 5.2.4	5.1.1-11 5.2.4-1	Air Quality Air Quality	Appendix 5.1.1.2A: Air Quality 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.2.4A: Air Quality Modelling Report (AMEC E&I) (App Volume 16) Table 5.2.4-1: Background Concentrations Table 5.2.4-4: Maximum Predicted Ground-Level Concentrations of NO_2
90	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Current ambient noise levels at both sites and within the local area, including the results of a baseline ambient noise survey. Information on typical sound sources, geographic extent and temporal variations will be included;	2	B	5.1.1.3	5.1.1-13	Noise and Vibration	Appendix 5.1.1.3A: Noise and Vibration 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 4) Table 5.1.1.3-1: Baseline Sound Parameters for Blackwater Gold Project (Estimated) and Reference Projects (Monitored) Table 5.1.1.3 2: Summary of Long-Term (37 hours) Noise Survey Results at the Proposed Mine Site Table 5.1.1.3 3: Summary of Short-Term (8 hours) Noise Survey Results at the Proposed Airstrip and Near Tatelkuz Lake Ranch Figure 5.1.1.3-1: Noise and Vibration Study Areas Figure 5.1.1.3-2: Noise Baseline Monitoring Stations
91	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Existing ambient light levels at the project site and at any other areas where project activities could have an effect on light levels. The EIS will describe night-time illumination levels during different weather conditions and seasons; and	5	B	7.1.4	7.1-26	Visual Resources	Appendix 7.1.4A: Visual Resources 2013 Baseline Report (AMEC E&I) (App Volume 5) Figure 7.1.4-3: View of the Camp from the Intersection of the Kluskus-Ootsa and Kluskus-Messue FSRs
92	9.1.2	17	Biophysical Environment - Atmospheric Environment and Climate	Historical records of total precipitation (rain and snow), mean, max and min temperatures	2	B	5.1.1.1	5.1.1.1-1	Climate	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Table 5.1.1.1-2: Project and Regional Weather Station Precipitation Distributions Table 5.1.1.1-3: Regional and Project Snow Course Data Table 5.1.1.1-4: Estimated Average Precipitation, Rainfall, and Snow Water Equivalent for the Project Table 5.1.1.1-5: Estimated 24-Hour Extreme Precipitation for the Project

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93	9.1.2	17-18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	The EIS will describe the following: A discussion of the soils, surficial sediments, bedrock and host rock geology of the deposit which includes a table of geologic descriptions, geological maps and cross-sections of appropriate scale. Where appropriate, the following geologic parameters will be included: a) Maps of surficial and bedrock geology showing the distribution of geologic units; b) Representative lithologic and sediment descriptions including: - age - colour - grain size - porosity - moisture conditions - permeability - mineralogy - physical strength - hardness - weathering characteristics - depositional setting and - correlations of surficial and bedrock units; c) A geological stratigraphic framework for the surficial sediments and bedrock as appropriate in support of hydrogeological assessments. In particular, - delineation of key stratigraphic and hydrogeologic boundaries - the spatial distribution and thickness of lithologic units shown in plan and cross-section; d) Alteration styles, mineralogy, bulk chemistry, trace metal chemistry occurrence and intensity of bedrock units; e) Structural fabric (e.g., joints and fractures, faults, foliation and lineation) and structural relationships, structural characterization of the rock formations impacted by the project; f) Ore mineralogy, including sulphide types, abundance, mode of occurrence, extent of previous oxidation and an estimate of relative sulphide reactivity; g) Type and grade of metamorphism; and, h) Regional geologic framework including tectonic belt, terrane, regional metamorphism and structure.	1 2 2 2	A B B B	2.2.3 5.1.2.3 5.1.3.1 5.1.3.2	2.2-17 5.1.2-44 5.1.3-1 5.1.3-14	On-site Components and Infrastructure Hydrogeology Geology and Geochemistry Soils and Terrain	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 1) Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14)

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94	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• A delineation of the regional and local geological structures in the project area that may affect the proposed infrastructure. This includes major structural features as well as lesser local structures, their ecological functions and distribution in the local study area;	1 2 2 2 4	A B B B B	2.2.3 5.1.2.3 5.1.3.1 5.1.3.2 5.3.4	2.2-17 5.1.2-144 5.1.3-1 5.1.3-14 5.3.4-1	On-site Components and Infrastructure Hydrogeology Geology and Geochemistry Soils and Terrain Ecosystem Composition	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14)
95	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• Geomorphology and topography of areas proposed for construction of major project components;	2 4	B B	5.1.3.2 5.4.2	5.1.3-14 5.4.2-1	Soils and Terrain Physiography and Topography	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Table 5.4.2-1: Summary of Slope Classes
96	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• Bedrock lithology, morphology, geomorphology and soils where earthworks are proposed;	2 2	B B	5.1.3.1 5.1.3.2	5.1.3-1 5.1.3-14	Geology and Geochemistry Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.2A - Table 3.1 1: Soil Orders and Great Groups in the Project Study Area Appendix 5.1.3.2A - Table 3.1 2: Summary of Soil Associations in the Project Study Area Appendix 5.1.3.2A - Table 3.4 2: Soil Associations in the Water Pipeline LSA Appendix 5.1.3.2A - Table 3.5 2: Soil Associations in the Airstrip LSA Appendix 5.1.3.2A - Table 3.6 2: Soil Associations in the Transmission Line LSA Appendix 5.1.3.2A - Table 3.8 2: Soil Associations in the Stellako Transmission Line LSA Appendix 5.1.3.2A - Table 3.9 2: Soil Associations in the Access Road LSA Appendix 5.1.3.2A - Annex 4: Soil Map Units
97	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• A description of geological hazards that exist in the areas planned for the project facilities and infrastructure, including: a) History of seismic activity in the area;	1 5	A B	2.2.3.4.7 11	2.2-171 11-1	Geohazards Potential Effects of the Environment on the Project	Figure 11.6.2-1: 2010 Seismic Hazard Map – Geological Survey of Canada Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2A-2: Section 3.5.2: Regional Tectonics and Seismicity and Appendix B: Seismic Hazard Assessment Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold, 2013) (App Volume 18)
98	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	b) Isostatic rise or subsidence; and,	2	B	5.1.3.1.3	5.1.3-2	Local and Project Geology	

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99	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	c) Landslides, slope erosion and the potential for ground and rock instability, and subsidence following project activities.	1 2 5	A B B	2.2.3.4.7 5.1.3.2 11.4	2.2-171 5.1.3-14 11-3	Geohazards Soils and Terrain Landslides/Mass Wasting/Slope Stability	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 11A: Blackwater Project – Reconnaissance Terrain and Terrain Stability Mapping. Rev0. (Knight Piésold, 2013) (App Volume 18)
100	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• Suitability of topsoil and overburden for use in the re-vegetation of surface-disturbed areas	1 2 4	A B B	2.6 5.1.3.2 5.4.4	2.6-1 5.1.3-14 5.4.4-1	Reclamation and Closure Plan Soils and Terrain Soil Quality	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 2.6A: Estimated Suitable and Unsuitable Soil Volumes by Project Components (AMEC E&I) (App Volume 3) Table 5.4.4-1: Alterations to Reclamation Suitability Ratings within the Proposed Project LSA and Project Footprint Table 5.4.4-2: Alterations to Reclamation Suitability Ratings within the Mine Site Access Road LSA and Proposed Project Footprint Table 5.4.4-3: Alterations to Reclamation Suitability Ratings within the Proposed Project Airstrip LSA and Project Footprint
101	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• Sites of paleontological or palaeobotanical significance;	5 5	B B	8.1 8.2.4	8-1 8-50	Heritage Baseline Paleontological Resources	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) - Section 2.0 Paleontology (App Volume 17) Table 8.2-19: Project Palaeontology Assessment Results – Fossil Sites
102	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	• A characterization of the geochemical composition of expected mine materials such as waste rock, ore, low grade ore, tailings, overburden and potential construction material, which will include:	1 2	A B	2.2.3.1 5.1.3.1	2.2-17 5.1.3-1	Geology and Mineral Resources Geology and Geochemistry	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
103	9.1.2	18	Biophysical Environment - Terrestrial Environment- Geology and Geochemistry	a) Mineralogy; b) Elemental composition of host lithologies and ore in study area (major and trace elements); c) Potential for acid generation, neutralization and contaminated neutral drainage	1 2	A B	2.2.3.1 5.1.3.1	2.2-17 5.1.3-1	Geology and Mineral Resources Geology and Geochemistry	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
104	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	The manual produced by the Mine Environment Neutral Drainage (MEND) Program, entitled, MEND Report 1.20.1, “Prediction Manual for Drainage Chemistry from Sulphide Geologic Materials”, Version 0 - December 2009 is a recommended reference for use in ARD/ML prediction.	1 2	A B	2.2.3.4.3 5.1.3.1	2.2-162 5.1.3-1	Waste Rock Classification Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
105	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	The Acid Rock Drainage/Metal Leaching (ARD/ML) prediction information will be used to predict water quality for effects assessment and to determine mitigation requirements for the project. Additional information will be provided on the following: • The type and method used for the ARD/ML prediction and possible mitigation measures	2 3	B B	5.1.3.1 5.3.3	5.1.3-1 5.3.3-1	Geology and Geochemistry Surface Water Quality	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.3.3-54: Additional Contingency Mitigation Measures

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				• Waste rock, tailings and low grade ore characterization, volumes, segregation/disposal method mitigation/management plans, contingency plans, operational and post-closure monitoring and maintenance plans						
106	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Assessment of short term metal leaching properties • Longer term kinetic testing to evaluate rates of acid generation (if any) and metal leaching	2	B	5.1.3.1	5.1.3-1	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)
107	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	Assessment of the feasibility to successfully segregate potentially-acid generating (PAG) and non-potentially acid generating (NPAG) waste materials during operations, proposed geochemical segregation criteria and identification of operational methods that will be required to achieve geochemical characterization during operations (i.e. geochemical surrogates, on site lab, procedures needed, etc.)	1 2 6	A B B	2.2.3.2 5.1.3.1 12.2.1.18.4.17	2.2-64 5.1.3-1 12.2.1-287	Mine Plan Geology and Geochemistry Mine Waste Management Plan	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.3.1A - Table 4-1: ARD Waste Rock Segregation Criteria
108	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Sensitivity analysis to assess the effects of imperfect segregation of waste rock	2 6	B B	5.1.3.1 12.2.1.18.4.17	5.1.3-1 12.2.1-287	Geology and Geochemistry Mine Waste Management Plan	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I), Section 6 (App Volume 13) Appendix 5.1.3.1A - Table 4-1: ARD Waste Rock Segregation Criteria
109	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Estimates of the potential for mined materials (including waste rock, tailings and low grade ore) to be sources of ARD or ML, estimates of potential time to the onset of ARD or ML, and the ability to prevent or control ARD and ML during operation and post-closure	2 3 6	B B B	5.1.3.1 5.3.3 12.2.1.18.4.17	5.1.3-1 5.3.3-1 12.2.1-287	Geology and Geochemistry Surface Water Quality Mine Waste Management Plan	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Table 5.3.3-57: Potential Exceedances of Guidelines Due to High Background at Operations and Closure Table 5.3.3-58: Potential Exceedances of Guidelines Due to High Background at Post-Closure
110	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Pit water chemistry during operation and post-closure, and pit closure management measures (e.g. flooding). This will include geochemical modeling of pit water quality in the post-closure period	2 3	B B	5.1.3.1 5.3.3	5.1.3-1 5.3.3-1	Geology and Geochemistry Surface Water Quality	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15)
111	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Surface and seepage water quality from the waste rock dumps, tailings/waste rock impoundment facility, stockpiles and other infrastructure during operation and postclosure	2 3 3 3	B B B B	5.1.3.1 5.3.3 5.3.5 5.3.6	5.1.3-1 5.3.3-1 5.3.5-1 5.3.6-1	Geology and Geochemistry Surface Water Quality Groundwater Quantity Groundwater Quality	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.3.3B Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15) Figure 5.3.6-4: Conceptual Model for Contaminant Transport and Behaviour in TSF (Closure and Post-Closure)

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112	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• ARD/ML prevention/management strategies under a temporary or early closure scenario, including low grade ore	1 1 1	A A A	2.6 2.6.5.1 2.6.10	2.6-1 2.6-15 2.6-74	Reclamation and Closure Plan On-Site Infrastructure Temporary Shutdowns and Premature Closure	
113	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Quantity and quality of leachate from samples of tailings, waste rock, and ore	2	B	5.1.3.1	5.1.3-1	Geology and Geochemistry	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.1.3.1A - Table 3 -5: Summary of NAG Test Leachate Results – Overburden Appendix 5.1.3.1A - Table 3 -47: Low-Grade Ore Stockpile Humidity Cell Samples Appendix 5.1.3.1A - Table 3 -48: Average Low-Grade Ore Humidity Cell Leaching Rates Appendix 5.1.3.1A - Table 3 -24: Statistical Summary of NAG Test Leachate Analysis Results – Waste Rock Appendix 5.1.3.1A - Table 3-32: Average Subaqueous Waste Rock Column Leaching Rates Appendix 5.1.3.1A - Table 3- 52: Metallurgical Test Tailings NAG Test Results Appendix 5.1.3.1A - Table 3 -53: Summary of NAG Test Leachate Results – Metallurgical Tailings Appendix 5.1.3.1A - Table 3-54: Shake Flask Extraction Analysis Results – Metallurgical Tailings Sample Appendix 5.1.3.1A - Table 3 -55: Metallurgical Tailings Humidity Cell Samples Appendix 5.1.3.1A - Table 3-56: Average Metallurgical Tailings Humidity Cell Leaching Rates
114	9.1.2	18-19	Biophysical Environment - Acid Rock Drainage/Metal Leaching	• Quantity and quality of effluent to be released from the site into the receiving waters • Quantity and quality of effluent to be released from the site into the receiving waters • Quality of humidity cell or column test liquid from acid rock testing.	2 2	B B	5.1.3.1 5.3.3	5.1.3-1 5.3.3-1	Geology and Geochemistry; Surface Water Quality	Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13) Appendix 5.3.3B: Surface Water Quality Goldsim Model (AMEC E&I) (App Volume 15)
115	9.1.2	19	Biophysical Environment - Surficial Geology	The EIS will describe the following: • Baseline mapping and description of landforms and landform processes and soils within the local and regional project area	2	B	5.1.3.2	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.2A - Table 3.1 1: Soil Orders and Great Groups in the Project Study Area 14 Appendix 5.1.3.2A - Table 3.1 2: Summary of Soil Associations in the Project Study Area 18 Appendix 5.1.3.2A - Table 3.4 2: Soil Associations in the Water Pipeline LSA Appendix 5.1.3.2A - Table 3.5 2: Soil Associations in the Airstrip LSA 36 Appendix 5.1.3.2A - Table 3.6 2: Soil Associations in the Transmission Line LSA 40

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										Appendix 5.1.3.2A - Table 3.8 2: Soil Associations in the Stellako Transmission Line LSA Appendix 5.1.3.2A - Table 3.9 2: Soil Associations in the Access Road LSA Appendix 5.1.3.2A - Annex 4: Soil Map Units
116	9.1.2	19	Biophysical Environment - Surficial Geology	• Description of surface sediments at proposed borrow and quarry sites, and other areas where earthworks are proposed. If the sedimentary deposits are identified as a potential source of granular material a description should be included	1 4	A B	2.2.3 5.4.3	2.2-17 5.4.3-1	On-site Components and Infrastructure Surficial Geology and Soil Cover	Figure 2.2.3-42: Identified Borrow Source Locations Table 5.4.3-1: Summary of Disturbances to Surficial Material within the LSA and Project Footprint Table 5.4.3-2: Summary of Disturbance to Soil Associations within the Proposed Project LSA Table 5.4.3-3: Summary of Disturbances to Surficial Material within the Proposed Mine Access Road LSA Table 5.4.3-4: Summary of Disturbance to Soil Associations within the Proposed Project Mine Access Road LSA Table 5.4.3-5: Summary of disturbances to surficial material within the Proposed Airstrip LSA Table 5.4.3-6: Summary of Disturbance to Soil Associations within the Proposed Project Airstrip LSA
117	9.1.2	19	Biophysical Environment - Surficial Geology	• Maps depicting soil depth by horizon and soil order within the mine site area to support soil salvage and reclamation efforts, and to outline potential for soil erosion	1 2 4 4	A B B B	2.6 5.1.3.2 5.4.3 5.4.4	2.6-1 5.1.3-14 5.4.3-1 5.4.4-1	Reclamation and Closure Plan Soils and Terrain Surficial Geology and Soil Cover Soil Quality	Table 5.1.3.2-1: Soil Depth and Soil Horizons Figure 5.4.3-2: Proposed Project Development Overlaid on the Baseline SMUs Figure 5.4.3-3: Proposed Project Mine Access Road Development Overlaid on the Baseline Surficial Geology Units Figure 5.4.3-4: Proposed Project Mine Access Road Development Overlaid on the Baseline SMUs Figure 5.4.3-5: Proposed Project Airstrip Development Overlaid on the Baseline Surficial Geology Map Figure 5.4.3-6: Proposed Project Mine Access Road Development Overlaid on the Baseline SMUs Figure 5.4.4-1: Proposed Project Development Overlaid on the Baseline Reclamation Suitability Ratings Figure 5.4.4-2: Proposed Project Mine Site Access Road Overlaid on the Baseline Reclamation Suitability Rating Figure 5.4.4-3: Proposed Project Airstrip Development Overlaid on the Baseline Reclamation Suitability Ratings Table 2.6-5: Soil Volume (m^3) Available for Salvaging at the Project Mine Footprint, Rated According to Suitability for Reclamation
118	9.1.2	19	Biophysical Environment - Surficial Geology	• Sedimentological and geochemical characteristics of surficial sedimentary units and soils	2 2	B B	5.1.3.2 5.1.3.1	5.1.3-14 5.1.3-1	Soils and Terrain Geology and Geochemistry	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AMEC E&I) (App Volume 13)

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119	9.1.2	19	Biophysical Environment - Surficial Geology	• A description/details of soil sample analysis completed and the quality assurance/quality control program followed	2	B	5.1.3.2	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.2B: AMEC Laboratory Quality Assurance/Control Program (AMEC E&I) (App Volume 14)
120	9.1.2	19	Biophysical Environment - Surficial Geology	• A summary of the baseline data on the concentration of trace elements in site soils prior to project development	2	B	5.1.3.2	5.1.3-14	Soils and Terrain	Appendix 5.1.3.2A: Soils, Terrain, and Surficial Geology 2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.2A - Table 3.3-4: Total Elemental Analysis of Soils Sampled within the Mine Site LSA
121	9.1.2	19-21	Biophysical Environment-Water Resources	The EIS will describe the following: • The hydrogeologic conditions at the site. It will examine all available existing hydrogeology information required to assess the effects of the project	2	B	5.1.2.3	5.1.2-44	Hydrogeology	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)
122	9.1.2	19-21	Biophysical Environment-Water Resources	• An appropriate hydrogeologic model will be presented for the project area, which discusses the hydrostratigraphy and groundwater flow systems. Include the rationale for the selected model	2 3	B B	5.1.2.3 5.3.5	5.1.2-44 5.3.5-1	Hydrogeology Groundwater Quantity	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
123	9.1.2	19-21	Biophysical Environment-Water Resources	• A detailed conceptual model will be provided. Model input parameters and boundary conditions will be clearly defined. Model inputs will be based on a sufficiently large data set and be conservative in nature. The model will be calibrated against baseline conditions and should be tested using site groundwater monitoring data to confirm the generated model	2 3	B B	5.1.2.3 5.3.5	5.1.2-44 5.3.5-1	Hydrogeology Groundwater Quantity	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
124	9.1.2	19-21	Biophysical Environment-Water Resources	• A sensitivity analysis will be performed to test model sensitivity to climatic variations (e.g., recharge) and hydrogeologic parameters (e.g., hydraulic conductivity)	2 3	B B	5.1.2.3 5.3.5	5.1.2-44 5.3.5-1	Hydrogeology Groundwater Quantity	Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16)
125	9.1.2	19-21	Biophysical Environment-Water Resources	• A description of the hydrogeology at the site and at local and regional study areas. The description will a) Characterize the hydrogeological context (e.g., hydrostratigraphy with aquifers and aquitards, major faults etc.) including the delineation of key stratigraphic and hydrogeologic boundaries; b) Characterize the physical properties of the hydrogeological units (e.g., hydraulic conductivity, transmissivity, saturated thickness, storativity, porosity, specific yield); c) Delineate regional and local and site groundwater flow patterns and rates, discuss the hydrogeologic, hydrologic, geomorphic, climatic and anthropogenic controls on groundwater	2 3	B B	5.1.2.3 5.3.5	5.1.2-44 5.3.5-1	Hydrogeology Groundwater Quantity	Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7)

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				flow; d) Include a detailed groundwater budget; e) Discuss temporal changes in groundwater flow (e.g., seasonal and long term changes in water levels; f) Identify recharge and discharge areas; g) Delineate and characterize groundwater and surface water interactions including the locations of groundwater discharge to surface water and surface water recharge to groundwater, and characterize perennial surface water flow (e.g., spatial extent and magnitude of baseflow);						
126	9.1.2	19-21	Biophysical Environment-Water Resources	h) Describe baseline groundwater and baseflow quality and the water type with their spatial distribution (zones); and,	2 2	B B	5.1.2.3 5.1.2.4	5.1.2-44 5.1.2-55	Hydrogeology Groundwater Quality	Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.4B - Figure 2.1 1: Groundwater Flow and Groundwater Quality Study Areas Appendix 5.1.2.4B - Figure 2.1 2: Groundwater Sampling Well Locations Appendix 5.1.3.1A: 2013 Geochemical Characterization Report (AEMC E&I) (App Volume 13) Figure 5.1.2.3-2: MODFLOW Baseline Groundwater Contours Figure 5.1.2.4-2: Groundwater Monitoring Wells Table 5.1.2.4-1: Summary of Average Groundwater Chemistry
127	9.1.2	19-21	Biophysical Environment-Water Resources	f) Describe and locate the surface and groundwater sources used as drinking water that may be impacted by the project, their current use and potential for future use.	3 5	B B	5.3.5 7.1.2	5.3.5-1 7.1-10	Groundwater Quantity Non-Traditional Land and Resource Use	Figure 7.1.2-1: Water Licenses Overlapping the Non-traditional Land Use Regional Study Area Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.1.2A - Table 3.9 6: Groundwater Licences Located within the Mine Site Study Area Appendix 7.1.2A - Table 3.9 7: Groundwater Licences Located within the Transmission Line Study Area Appendix 7.1.2A - Table 3.9 8: Groundwater Licences Located within the Transmission Line Study Area – Stellako Re-Route Appendix 7.1.2A - Table 3.9 9: Groundwater Licences Located within the FSR Study Area Appendix 7.1.2A - Figure 3.9 5: Water Licences Overlapping the Non-traditional Land Use Regional Study Area
128	9.1.2	19-21	Biophysical Environment-Water Resources	• Hydrogeologic maps and cross-sections for the mine area to outline the extent of aquifers and aquitards, including bedrock fracture and fault zones, locations of wells, springs, surface waters, and project facilities. Groundwater levels, potentiometric contours and flow directions should be included; • An inventory and analysis of existing information	2 2 2	B B B	5.1.2.3 5.1.2.4 5.3.5	5.1.2-44 5.1.2-55 5.3.5-1	Hydrogeology Groundwater Quality Groundwater Quantity	Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.4B: Groundwater Quality 2012 – 2014 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.4B: Figure 2.1-2: Groundwater Sampling Well Locations Appendix 5.1.2.4B: Table 2.1-1: Details for Groundwater Baseline Monitoring Wells

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				on the hydrogeological conditions/groundwater resources in the project area, including published reports, geological maps, well record data (from water wells, monitoring wells and production wells) and Quality Assurance/Quality Control (QA/QC) procedures followed • A review of the physical geography (e.g., topography and physiographic units) and the geology of the area as it pertains to local and regional groundwater flow systems and aquifer/aquitard systems • Hydrogeologic maps and cross-sections for the mine area to outline the extent of aquifers and aquitards, including bedrock fracture and fault zones, locations and depths of wells, groundwater types springs, surface waters, and project facilities. Groundwater levels, potentiometric contours and flow directions should be included • A review of the physical geography (e.g., topography and physiographic units) and the geology of the area as it pertains to local and regional groundwater flow systems and aquifer/aquitard systems • Maps showing groundwater divides and areas of recharge and discharge, with project components overlain • Location and description of all groundwater monitoring wells in respect to the project area, including geologic, hydrostratigraphic, piezometric and construction data (e.g., depths of surficial and bedrock units, water level, hydraulic conductivity, diameter and screen depth and intercepted aquifer unit) • A description of baseline groundwater level data for regional and local flows in all aquifer units (overburden and bedrock units) • A description of monitoring protocol for collection of existing groundwater data • Measurements of hydraulic conductivity (or transmissivity) for all hydrogeological units in the project area • Results of the modeling of baseline hydrogeological conditions (refer to hydrogeological modeling section) • Graphs or tables indicating seasonal variations in groundwater levels, flow regime, and quality • Tables of baseflow measurements or estimates • A description of local and regional potable						Appendix 5.3.5A: Numerical Groundwater Modelling Report (Knight Piésold Ltd.) (App Volume 16) Appendix 5.3.5A: Figure 3.1: Study Area Boundary Appendix 5.1.2.3A: 2012 Site Investigation Report (Knight Piésold Ltd.) (App Volume 7) Figure 5.1.2.3-2: MODFLOW Baseline Groundwater Contours Figure 5.1.2.4-2: Groundwater Monitoring Wells Table 5.1.2.3-1: In Situ Hydraulic Conductivity Test Results Table 5.1.2.4-1: Summary of Average Groundwater Chemistry

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				groundwater supplies, including their current use and potential for future use, as appropriate • Baseline analysis of groundwater and baseflow quality at the site and within the regional and local study area, including methods of sampling and analysis and details of QA/QC. This includes determining natural groundwater types and measuring concentrations of major constituents as well as minor and trace components. Ensure that particular attention is given to the components that would be, from an environmental point of view, potentially of interest in the course of mining operations. This analysis should be performed on sediment and bedrock aquifers • Bedrock fracture sizes and orientations in relation to groundwater flow • Evaluation of discharge rates.					
129	9.1.2	19-21	Biophysical Environment-Water Resources	The EIS will describe surface water quality, hydrology and sediment quality within the area of influence of the project. The baseline will provide the basis for the assessment of potential effects to surface water, presenting the range of water and sediment quality and surface water hydrology. Furthermore, the EIS will describe: • The delineation of drainage basins, at appropriate scales • The assessment of hydrological regimes • Flows or design peak flows for selected periods for the project area • Any local and regional potable surface water resource • Seasonal water quality field and lab analytical results and interpretation at several representative local stream and lake monitoring stations established at the project site	2 2 2	B B B	5.1.1.1 5.1.2.1 5.1.2.2	5.1.1-1 5.1.2-1 5.1.2-19	Climate Hydrology Surface Water Quality	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.3.2.D: Tatelkuz Lake Levels for Mine Life Scenarios – Revised (Knight Piésold Ltd.) (App Volume 15) Appendix 5.1.2.2A: Surface Water and Sediment Quality 2011 – 2013 Baseline Report (AMEC E&I) (App Volume 5 and Volume 6)
130	9.1.2	22	Biophysical Environment – Wetlands	Wetlands that may be affected by project activities will be characterized according to their location, size, type (wetland class and form), species composition and ecological function (Canadian Wetland Classification System (National Wetlands Working Group [NWWG] 1997). Efforts should focus on describing the wetlands with the greatest potential to be affected (i.e., within the project footprint). An overview of the key plant	2 3	B B	5.1.2.5 5.3.7	5.1.2-62 5.3.7-1	Wetlands Wetlands	Appendix 5.1.2.5A: Wetlands 2011-2013 Baseline Report (AMEC E&I) (App Volume 8) Appendix 5.1.2.5A: Table 1.1-1: Features (Hydrological and Ecological) Used to Describe, Map, and Classify Wetlands to the Site Association (plant community) Level Appendix 5.1.2.5A: Table 1.1-2: Summary Characteristics of Wetland Classes in British Columbia Figure 5.3.7-2 Distribution of Wetland Resources in the Vicinity of the Mine Site Figure 5.3.7-4: Distribution of Hydrogeomorphic Classes for 66 Select Wetlands in the Mine Site

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				communities and animals that rely on wetlands will be presented.						Table 5.1.2.5-2: Wetland Classes and Distribution in Mine Site, LSA, and RSA Table 5.1.2.5-3: Area of Wetland Classes in Linear Features Study Areas Table 5.3.7-6: Area of Wetland Classes in the Baseline Study Areas for the Linear Project Component Corridors Table 5.3.7-7: Wetland Site Associations by Area within Mine Site Table 5.3.7-8: Confirmed At-Risk Wetland Ecosystems in the Baseline Study Areas Table 5.3.7-9: Confirmed Plant Species At Risk in the Baseline Study Areas
131	9.1.2	22-23	Biophysical Environment – Fish and Fish Habitat	The EIS will describe the - limnology - hydrology - biota - presence of fish and other aquatic species - associated habitats and habitat distribution - fisheries in potentially affected surface waters based on available published information, information resulting from community consultation, and/or results of on-site baseline surveys. Furthermore, the EIS will describe the following: • Characterize fish populations on the basis of species and life stage of affected water bodies (e.g. project footprint, upstream and downstream) • List any rare fish or other aquatic species that are known to be present	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-1: Fish and Aquatic Resources Study Areas Figure 5.1.2.6-19: Fish Habitat Quality Figure 5.1.2.6-55: Fish Distribution Table 5.1.2.6-1: Main Drainages of the Aquatics LSA Table 5.1.2.6-6: Habitat Parameters for All Streams Surveyed in the LSA, 2011-2013 Table 5.1.2.6-7: Fish Habitat Area in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-8: Fish Habitat Units in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-16: Elevation and Bathymetry of Lakes of the LSA Table 5.1.2.6-17: Limnology Parameters Measured in Six Lakes, August 2011 and September 2012 Table 5.1.2.6-18: Physical Limnology Parameters Measured in Tatelkuz Lake, 2013 Table 5.1.2.6-25: Fish Species Captured in the LSA Table 5.1.2.6-26: Fish Species Present in the LSA and RSA Table 5.1.2.6-29: Number and Density of Fish in Tatelkuz Lake, July 2013, from Hydroacoustic Survey Table 5.1.2.6-31: Estimated Number of Kokanee Spawners in the LSA, 2011-2013 Table 5.1.2.6-232: Mean Length, Weight, and Condition Factor of Kokanee, Blackwater Study Area, 2012 Table 5.1.2.6-33: Mean Length, Weight, Condition Factor, and Age of Fish Species, Tatelkuz Lake, July 2013 Table 5.1.2.6-34: Sex Ratio of Fish Species, Tatelkuz Lake, July 2013 Table 5.1.2.6-37: Predicted Number of Rainbow Trout Estimated from Lake Surface Area Assuming Uniform Density of 131 Fish/Ha Table 5.1.2.6-39: Number of Rainbow Trout in Tatelkuz Lake

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										Belonging to Natal Stream Populations Estimated from Total Downstream Hoop Net CPUE of Rainbow Trout Spawners Table 5.1.2.6-42: Mean Length, Weight, Condition Factor, and Age of Rainbow Trout, Blackwater Study Area, 2011-2013 Table 5.1.2.6-43: Sex Ratio of Rainbow Trout, Blackwater Study Area, 2011-2012
132	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Identify any potential waterbodies and fish habitat sites that could be rehabilitated for possible habitat gains to offset losses from the project	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6C: Fisheries Mitigation and Offsetting Plan (AMEC E&I) (App Volume 12) Figure 5.1.2.6-5: FHAP 2011, 2012 and 2013 Figure 5.1.2.6-6: Fish Habitat Inventory 2011, 2012 and 2013
133	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	In order to allow analysis of the project's effects, the EIS will document the physical and biological characteristics of fish and fish habitat likely to be directly or indirectly affected by the project. Note that certain intermittent streams or wetlands may constitute fish habitat or contribute indirectly to fish habitat. The absence of fish at the time of the survey does not irrefutably indicate an absence of fish habitat. The EIS will illustrate, on a topographic scale map, the hydrographic network (water bodies and watercourses), including intermittent streams, flood risk areas and wetlands. It will also indicate the boundaries of the watershed and subwatersheds of the study area. Emphasis will be placed on the watercourses and water bodies likely to be affected by the project and their physical characteristics, water quality and hydrological regime. Hence, for all the watercourses and water bodies on which effects are anticipated, the EIS will describe the biophysical characteristics, including: • For each watercourse, indicate the name of the watercourse and provide a description of the habitat by homogeneous section. The parameters that must be determined are length of the section, width of the channel from the high water mark (bankful width), water depths, type of substrate (sediments), aquatic and riparian vegetation, including bank slopes. It is recommended that photos be attached to the description;	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Figure 5.1.2.6-5: FHAP 2011, 2012 and 2013 Figure 5.1.2.6-6: Fish Habitat Inventory 2011, 2012 and 2013 Figure 5.1.2.6-22: Mean Monthly Stream Temperature in Watersheds of the LSA, 2011 – 2012 Figure 5.1.2.6-28: Mean Periphyton Density at Stream Sites, LSA and RSA, 2011 and 2012 Figure 5.1.2.6-33: Vertical Profiles of Temperature and DO Concentrations, Tatelkuz Lake, 2013 Figure 5.1.2.6-41: Zooplankton Biomass from Headwater Lakes, 2012 Figure 5.1.2.6-42: Mean Zooplankton Density, Tatelkuz Lake, August 2013 Figure 5.1.2.6-43: Mean Zooplankton Biomass, Tatelkuz Lake, August 2013 Figure 5.1.2.6-44: Metrics of Zooplankton Communities of Tatelkuz Lake and Headwater Lakes Figure 5.1.2.6-45: Metrics of Littoral BMI Communities of Tatelkuz Lake and Three Headwater Lakes Figure 5.1.2.6-46: Littoral BMI Community Abundance and Taxa Richness in Relation to Substrate Type, Tatelkuz Lake, August 2013 Figure 5.1.2.6-47: Metrics of Profundal BMI Communities of Tatelkuz Lake and Headwater Lakes Table 5.1.2.6-6: Habitat Parameters for All Streams Surveyed in the LSA, 2011-2013 Table 5.1.2.6-7: Fish Habitat Area in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-8: Fish Habitat Units in Streams and Ponds of Watersheds of the LSA Table 5.1.2.6-9: Quality of Overwintering Habitat in Streams, Blackwater LSA, March 2012 and March 2013 Table 5.1.2.6-17: Limnology Parameters Measured in Six

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										Lakes, August 2011 and September 2012 Table 5.1.2.6-18: Physical Limnology Parameters Measured in Tatelkuz Lake, 2013 Table 5.1.2.6-19: Littoral Habitat Classes and Area Table 5.1.2.6-22: Summary Statistics of Zooplankton Communities of Tatelkuz Lake and Headwater Lakes Table 5.1.2.6-23: Summary Statistics of Littoral BMI, Tatelkuz Lake, and Headwater Lakes
134	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• For each freshwater, estuary or marine water body affected, indicate the name of the water body and provide a description. The parameters that must be determined are total surface area, bathymetry, maximum and mean depths, water level fluctuations, type of substrate (sediments), and location of submerged, floating and emergent aquatic vegetation, and water quality parameters (e.g. water temperature, turbidity, pH, dissolved oxygen profiles);	2 2	B B	5.1.2.1 5.1.2.6	5.1.2-1 5.1.2-73	Hydrology Fish and Fish Habitat	Appendix 5.1.2.1C: Knight Piésold Ltd. Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Table 5.1.2.6-6: Habitat Parameters for All Streams Surveyed in the LSA, 2011-2013 Appendix 5.1.2.6B: Plate 2.1-1: Tatelkuz Lake Facing Southeast, 19 June 2011, Showing Lower Chedakuz Creek Flowing Towards the Viewer Appendix 5.1.2.6B: Plate 2.1-2: Tatelkuz Lake Facing Northwest, 14 July 2013 Appendix 5.1.2.6B: Plate 2.1-3: Middle Chedakuz Creek Entering Tatelkuz Lake, 14 July 2013 Appendix 5.1.2.6B: Figure 4.10-1 Shoreline Habitat Types and Location of Transect Surveys in Tatelkuz Lake, 2013 Appendix 5.1.2.6B: Figure 5.9-1 Tatelkuz Lake - Bathymetry Map Appendix 5.1.2.6B: Plate 5.10-1 and Plate 5.10-2 Appendix 5.1.2.6B: Figure 5.10-1 Tatelkuz Lake Littoral Habitat Appendix 5.1.2.6B: Table 5.10-1: Relative Abundance and Spatial Area of Littoral Habitat Classes in Tatelkuz Lake Appendix 5.1.2.6B: Plate 5.10-3 - 5.10-6 Appendix 5.1.2.6B: Table 5.1-3: Characteristics of Overwintering Lake Habitat, March 2013 Appendix 5.1.2.6B: Table 5.11-2: Bathymetry of Tatelkuz Lake and Headwater Lakes of the Blackwater LSA Appendix 5.1.2.6B: Figure 5.11-2: Mid-Summer Vertical Profiles of Temperature, Dissolved Oxygen, Specific Conductivity (upper panels), Total Dissolved Solids, and pH (lower panels) of Tatelkuz Lake and Three Headwater Lakes Appendix 5.1.2.6B: Figure 5.11-3: Phytoplankton Biomass, Tatelkuz Lake, August 2013 Appendix 5.1.2.6B: Figure 5.11-4: Phytoplankton Density, Tatelkuz Lake, August 2013 Appendix 5.1.2.6B: Table 5.11-3: Mean Density and Relative Abundance of Major Phytoplankton Taxa, Tatelkuz Lake, 2013

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										Appendix 5.1.2.6B: Table 5.11-4: Mean Diversity and Evenness of Phytoplankton Communities, Tatelkuz Lake, 2013 Appendix 5.1.2.6B: Table 5.11-8: Environmental Conditions Associated with Phytoplankton Communities of Four Lakes
135	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Monthly/seasonal/annual water flow (discharge) data, including minimum and maximum flows	2 2 2	B B B	5.1.1.1 5.1.2.1 5.1.2.6	5.1.1-1 5.1.2-1 5.1.2-73	Climate Hydrology Fish and Fish Habitat	Appendix 5.1.1.1A: 2013 Hydrometeorology Report (Knight Piésold Ltd.) (App Volume 4) Appendix 5.1.1.1B: Air Quality 2011 - 2013 Baseline Report (AMEC E&I) (App Volume 4) Appendix 5.1.2.1B: Watershed Modelling Report (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.1C: Baseline Tatelkuz Lake Levels (Knight Piésold Ltd.) (App Volume 5) Appendix 5.1.2.6D: Instream Flow Study (AMEC E&I) (App Volume 12)
136	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Natural obstacles (e.g. falls, beaver dams) or existing structures (e.g. water crossings) that hinder the free passage of fish; and,	2 5	B B	5.1.2.6 7.2.6	5.1.2-72 7.2.6-1	Fish and Fish Habitat Non-Traditional Land and Resource Use	Appendix 5.1.2.6A: Blackwater Gold Project: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Blackwater Gold Project: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 7.2.6A: Blackwater Gold Project, Navigable Waters Baseline Report, and Technical Assessment 2014 (Rescan Environmental Services Ltd.) (App Volume 17)
137	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Preparation of habitat maps at a suitable scale indicating the surface area of habitat for spawning, nursery, feeding, migration routes, etc. This information should be linked to water depths (bathymetry) to identify the extent of the littoral zone.	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Figure 5.1.2.6 -48: Kokanee Migration, Spawning and Egg Incubation Habitat in Streams in the LSA Figure 5.1.2.6-49: Kokanee Rearing, Foraging, Overwintering and Potential Spawning Habitat in Tatelkuz Lake Figure 5.1.2.6-61: Rainbow Trout Migration, Migration Spawning, Egg Incubation, Fry Rearing, and Juvenile Rearing Habitat in Streams in the LSA Figure 5.1.2.6-62: Rainbow Trout Overwintering Habitat in Streams in the LSA Figure 5.1.2.6-63: Rainbow Trout Rearing, Foraging and Overwintering Habitat in Lakes in the LSA Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6B: Figure 5.10-1: Tatelkuz Lake Littoral Habitat Appendix 5.1.2.6B: Figure 5.4-1: Fish Habitat Units of Lower Chedakuz Creek, 2013

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138	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	Fish sampling survey methods used will be described in order to allow experts to ensure the quality of the information provided. If studies on fish and fish habitat were carried out previously, they are to be submitted with the EIS.	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A: Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Table 5.1.2.6-2: Number of Sampling Sites, Fish and Fish Tissues, Blackwater Project LSA, 2011 and 2012 Table 5.1.2.6-3: Number of Sampling Sites, Fish and Fish Tissues, Blackwater Project RSA, 2011 and 2012 Table 5.1.2.6-4: Number of Sampling Sites, Fish and Fish Tissues, Blackwater Project LSA, 2013 Figure 5.1.2.6-2: Proposed Mine Site Location with Mine Access Road, Transmission Line, and Fresh Water Pipeline Figure 5.1.2.6-3: Locations of Stream Temperature Data Loggers in the LSA, 2011-2012 Figure 5.1.2.6-4: Locations of Periphyton and Benthic Macroinvertebrate Sampling Sites, Blackwater LSA, 2011-2012 Figure 5.1.2.6-5: FHAP 2011, 2012 and 2013 Figure 5.1.2.6-6: Fish Habitat Inventory 2011, 2012 and 2013 Figure 5.1.2.6-7: Fish Sampling Sites, Davidson Creek Watershed, 2011-2012 Figure 5.1.2.6-8: Fish Sampling Sites, Turtle Creek Watershed, 2011-2012 Figure 5.1.2.6-9: Fish Sampling Sites, Creek 661 Watershed, 2011-2012 Figure 5.1.2.6-10: Fish Sampling Sites, Creek 705 Watershed, 2011-2012 Figure 5.1.2.6-11: Fish Sampling Sites, Tatelkuz Lake Tributaries Watershed, 2012 Figure 5.1.2.6-12: Kokanee Survey Sites, Regional Study Area, 2012 Figure 5.1.2.6-13: Overwintering Fish Habitat Survey, March 2012 and March 2013 Figure 5.1.2.6-14: Fish Sample Sites, Tatelkuz Lake, 2013 Figure 5.1.2.6-15: Instream Flow Overview
139	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	For all watercourses or water bodies on which the project is likely to have effects, the EIS will: • Describe the fish species present on the basis of the surveys carried out and the data available (e.g. electric and experimental fishing, government and historical databases, sport fishing data). Identify the sources of the data and provide the information concerning the fishing carried out (e.g. location of sampling stations, catch methods, date of catches, species);	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6B: Table 5.4-2: Minnow Trapping Effort, Catch, and CPUE of Reach 15 of Lower Chedakuz Creek, 25 July 2013 Appendix 5.1.2.6B: Table 5.4-4: Number of Fish Counted in Lower Chedakuz Creek, 25 July 2013 Appendix 5.1.2.6B: Table 5.5-3: Effort, Catch, and CPUE of Survey of Creek 705, August and September 2013 Appendix 5.1.2.6B: Table 5.5-4: Summary of Biological

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										Characteristics of Fish Captured in Creek 705, August and September 2013 Appendix 5.1.2.6B: Table 5.7-2: Effort, Catch, and CPUE at Stream Crossings of Fresh Water Pipeline, August 2013 Appendix 5.1.2.6B: Table 5.12-1: Fish Species Captured in Tatelkuz Lake, July 2013 Appendix 5.1.2.6B: Table 5.12-4: Total Gillnet Effort, Catch and CPUE in Tatelkuz Lake, July 2013 Appendix 5.1.2.6B: Table 5.12-6: Minnow Trap Effort, Catch, and CPUE in Tatelkuz Lake, July 2013 Appendix 5.1.2.6B: Figure 4.3-1: Fish Sampling Sites Lower Davidson Creek, July 2013 Appendix 5.1.2.6B: Table 4.3-1: Electrofishing Sampling Sites, Lower Davidson Creek, 9 to 11 July 2013 Appendix 5.1.2.6B: Table 4.4-3: Minnow Trap Sampling Sites, Reach 15 of Lower Chedakuz Creek, 24 July 2013 Appendix 5.1.2.6B: Table 4.5-3: Fish Sampling Sites, Creek 705, 2013 Appendix 5.1.2.6B: Figure 4.5-2 Fish Sampling Sites Creek 705 Watershed, 2013 Appendix 5.1.2.6B: Figure 4.7-1: Fish and Fish Habitat Sampling Sites at Freshwater Pipeline Crossings, 2013 Appendix 5.1.2.6B: Table 4.7-1: Electrofishing Sites, Stream Crossings of the Water Pipeline, 2013 Appendix 5.1.2.6B: Figure 4.12-1 Fish Sampling Sites Tatelkuz Lake, 2013 Appendix 5.1.2.6B Table 4.12-1: Tatelkuz Lake Fish Sampling Sites, Methods, Depths, Dates, and Soak Times, July 2013
140	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Specify the location and surface area of potential or confirmed fish habitats and describe how they are used by fish (spawning, rearing, growth, feeding, migration, overwintering);	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.2.6B Figure 5.10-1: Tatelkuz Lake Littoral Habitat Appendix 5.1.2.6B Figure 5.4-1: Fish Habitat Units of Lower Chedakuz Creek, 2013 Figure 5.1.2.6-15 Fish Habitat Quality
141	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Locate and describe suitable habitats for species at risk that appear on federal and provincial lists and that are found or are likely to be found in the study area;	2 3	B B	5.1.2.6 5.3.8	5.1.2-73 5.3.8-1	Fish and Fish Habitat Fish	
142	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• Document any blasting activity near water where vibrations may affect fish behaviour, such as spawning or migrations	2 3	A B	5.1.2.6 5.3.8	5.1.2-73 5.3.8-1	Fish and Fish Habitat Fish	

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143	9.1.2	22-23	Biophysical Environment - Fish and Fish Habitat	• For sites where stream crossings are to be installed, constructed or modified, determine need to ensure free passage of fish. If the proponent believes that it is not necessary to ensure free passage of fish, it will explain why by demonstrating that there is a natural barrier to free passage of fish at or near the site of the work, or that the habitat upstream of the work is of marginal quantity and quality. The proponent can also consider the anticipated state of the stream following the project operations to justify its conclusion	2	B	5.1.2.6	5.1.2-73	Fish and Fish Habitat	Appendix 5.1.2.6A Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) - Table 5.7-1: Summary of Reconnaissance (1:20,000) Stream Habitat Features of Stream Crossings of Fresh Water Pipeline, August 2013
144	9.1.2	22-23	Biophysical Environment - Birds, Wildlife and their Habitat	The EIS will describe migratory and non-migratory birds (including waterfowl, raptors, shorebirds, marsh birds and other landbirds), ungulates, furbearers, amphibians, small mammals, and their habitat at the project site and within the local and regional areas. The results of any baseline surveys and a description of the methodology will be included.	2	B	5.1.3.4	5.1.3-50	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
145	9.1.2	22-23	Biophysical Environment - Birds, Wildlife and their Habitat	Existing data will be supplemented by surveys, where necessary. Surveys should be designed with reference to the Canadian Wildlife Service's guidance such as Technical Report No. 508, A Framework for the Scientific Assessment of Potential Project Impacts on Birds (Hanson et al. 2010). Appendix 3 of the Framework provides examples of project types and recommended techniques for assessing impacts on migratory birds.	2	B	5.1.3.4	5.1.3-50	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
146	9.1.2	22-23	Biophysical Environment - Birds, Wildlife and their Habitat	Other wildlife and their habitat that could be impacted by project activities will be characterized using existing data, supplemented by surveys as appropriate. The EIS will give particular consideration to areas of concentration of migratory animals, such as breeding, denning and/or wintering areas, as well as breeding areas of species low in number and high in the food chain (e.g. furbearers such as black bear and wolf).	2	B	5.1.3.4	5.1.3-450	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
147	9.1.2	22-24	Biophysical Environment - Birds, Wildlife and their Habitat	The description of the existing environment will include consideration of existing or proposed protected areas, special management areas, and conservation areas in the regional study area.	2	B	5.1.3.4	5.1.3-50	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)

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148	9.1.2	24	Biophysical Environment - Species at Risk and Species of Conservation Concern	As background for the analysis of the project's effects on Species at Risk (SAR), the EIS will: • Identify all SARs that may be affected by the project, using existing data and literature as well as surveys to provide current field data, as appropriate;	2 2	B B	5.1.3.4 5.1.2.6	5.1.3-50 5.1.2.-73	Wildlife and Wildlife Habitat Fish and Fish Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)
149	9.1.2	24	Biophysical Environment - Species at Risk and Species of Conservation Concern	• Provide assessments of regional importance, abundance and distribution that optimize the ability to detect all species at risk and sufficient survey effort to obtain comprehensive coverage; and,	2	B	5.1.3.4	5.1.3-50	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 5.1.3.4A: Figure 2.1-1 - 2.1-5: Road-Based and Visual Encounter Amphibian Survey Locations Appendix 5.1.3.4A: Figure 2.1-6 - 2.1-10: Forest and Grassland Songbird Survey Stations Appendix 5.1.3.4A: Figure 2.1-11 - 2.1-15: Raptor Survey Locations Appendix 5.1.3.4A: Figure 2.1-16 - 2.1-20: Water Bird Survey Locations Appendix 5.1.3.4A: Figure 2.1-21: Aerial Ungulate and Furbearer Surveys Appendix 5.1.3.4A: Figure 2.1-22: Ungulate and Furbearer Winter Ground Transects Appendix 5.1.3.4A: Figure 2.1-23 - 2.1-24: Wildlife Camera Locations 2012 and 2013 Transects Appendix 5.1.3.4A: Figure 2.1-25: Caribou Forage Lichen Transects Appendix 5.1.3.4A: Figure 2.1-26: Acoustic Bat Survey Locations (2011, 2012 and 2013) Appendix 5.1.3.4A: Figure 2.1-28 - 2.1-32: Invertebrate Survey Locations
150	9.1.2	24	Biophysical Environment - Species at Risk and Species of Conservation Concern	Identify residences, seasonal movements, movement corridors, habitat requirements, key habitat areas, identified critical habitat and/or recovery habitat (where applicable) and general life history of SARs that may occur in the project area, or be affected by the project.	2 4	B B	5.1.3.4 5.4.11	5.1.3-50 5.4.11-1	Wildlife and Wildlife Habitat Caribou	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15) Figure 5.4.11‑2: Environment Canada (2014) Critical Habitat (and Type I Matrix Habitat) for Caribou Subpopulations
151	9.1.2	24	Biophysical Environment - Species at Risk and Species of Conservation Concern	The following information sources on species at risk and species of conservation concern should be consulted: • SARA (www.sararegistry.gc.ca); • COSEWIC; • Relevant Government agencies; • Local naturalist and interest groups; and, • Aboriginal groups and First Nations.	2	B	5.1.3.4	5.1.3-50	Wildlife and Wildlife Habitat	Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15)

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152	9.1.2	24	Biophysical Environment - Ecosystems (grassland, temperate forest, etc.)	The EIS will describe the various ecosystems found in the project area, which are likely to be affected by the project.	2	B	5.1.3.3	5.1.3-26	Vegetation	Figure 5.1.3.3-2: Terrestrial Ecosystem Mapping and Plant Species at Risk Survey Locations Figure 5.1.3.3-3: Distribution of Ecoregions and Ecosections in the LSA Figure 5.1.3.3-4: Distribution of Biogeoclimatic Subzones and Variants Figure 5.1.3.3-5: Distribution of Whitebark Pine (*Pinus albicaulis*) Appendix 5.1.3.3A: Vegetation 2011-2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.3A: Table 3.1-5: Distribution of Biogeoclimatic Units in the Project Component LSAs
153	9.1.2	24-25	Biophysical Environment - Flora	The EIS will describe potential or known plant species in the project area, which are listed under the Species at Risk Act or other provincial or territorial endangered species legislation, and critical habitat that are likely to be affected by the project. The proponent may consider the inclusion of other biophysical VCs in the EIS.	2	B	5.1.3.3	5.1.3-26	Vegetation	Appendix 5.1.3.3A: Vegetation 2011-2013 Baseline Report (AMEC E&I) (App Volume 14)
154	9.1.2	24-25	Biophysical Environment - Flora	The species selected within each biotic VC should include those of importance to health and socio-economic conditions, cultural heritage and the current use of land and resources for traditional purposes by Aboriginal Groups.	2 2 5 5 6	B B B B C	5.1.3.3 5.1.3.4 7.1.2 7.1.3 14	5.1.3-26 5.1.3-50 7.1-10 7.1-17 14-1	Vegetation Wildlife and Wildlife Habitat Non-Traditional Land and Resource Use Current Land and Resource Use for Traditional Purposes Aboriginal Groups Background Information	Appendix 5.1.3.3A: Vegetation 2011-2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 5.1.3.4A: Wildlife and Wildlife Habitat 2011-2013 Baseline Report (AMEC E&I) (App Volume 15) Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17)
155	9.1.2	25	Biophysical Environment - Human Environment	The definition of the human environment will be interpreted broadly. Based on the scope of project described in section 6, the following VCs will be identified and described in the relevant sections of the EIS: • Land use context (e.g., hunting, fishing, outdoor recreation, use of seasonal cabins, existing land development)	2 2 5	B B B	5.1.2.6 5.1.3.3 7.1.2	5.1.2.-73 5.1.3-26 7.1-10	Fish and Fish Habitat Vegetation Non-Traditional Land and Resource Use	Appendix 5.1.2.6A Fish and Aquatic Resources 2011-2012 Baseline Report (AMEC E&I) (App Volume 9 and Volume 10) Appendix 5.1.2.6B: Fish and Aquatic Resources 2013 Baseline Report (AMEC E&I) (App Volume 11) Appendix 5.1.3.3A: Vegetation 2011-2013 Baseline Report (AMEC E&I) (App Volume 14) Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17)
156	9.1.2	25	Biophysical Environment - Human Environment	• Health and socio-economic conditions	5 5	B B	7.1.1 9.1	7.1-2 9-1	Social Conditions Health Baseline	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
157	9.1.2	25	Biophysical Environment - Human Environment	• Physical and cultural heritage, incl. structures, sites or artefacts of historical, archaeological, paleontological or architectural significance	5	B	8.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17)

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158	9.1.2	25	Biophysical Environment - Human Environment	• Current use of land and resources for traditional purposes by Aboriginal persons	5 6	B C	7.1.3 14	7.1-17 14-1	Current Land and Resource Use for Traditional Purposes Aboriginal Background	
159	9.1.2	25	Biophysical Environment - Human Environment	• In describing how the project may impede navigation, the EIS will: a) Identify any project components and a description of any activities (e.g., dredging, alteration of water bed and/or water banks) that may affect waterways and water bodies b) Describe any recreational uses of natural waters (i.e., swimming, canoeing, fishing) c) Provide information on current and/or historic usage of all waterways and water bodies that will be directly affected by the project, including current aboriginal uses, where available. The above list is a minimum list that is not meant to be exhaustive. The proponent may consider the inclusion of other human environment VCs in the EIS.	5 5 6	B B C	7.1.2 7.2.6 14	7.1-10 7.2.6-1 14-1	Social Baseline: Non-Traditional Land and Resource Use Non-Traditional Land and Resource Use Aboriginal Background	Appendix 7.1.2A: Non-Traditional Land Use 2013 Baseline Report (AMEC E&I) (App Volume 17) Appendix 7.2.6A: ERM Rescan Blackwater Gold Project Navigable Waters Baseline Report and Technical Assessment 2014 (ERM Rescan) (App Volume 17)
160	9.1.2	25	Biophysical Environment - Human Environment	The Proponent will include all baseline information relevant to human health in one section of the EIS. The Proponent should refer to Health Canada's Useful Information for Environmental Assessments* document in order to include the appropriate baseline information relevant to human health. *This document can be obtained at http://www.hc-sc.gc.ca/ewh-semt/pubs/eval/environ_assess-eval/index-eng.php.	5	B	9.1	9-1	Health Baseline	Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health and Ecological Risk Assessment (AMEC E&I) (App Volume 18)
161	9.1.2	25	Biophysical Environment - Human Environment	In describing the socio-economic environment, the proponent will provide information on the functioning and health of the socio-economic environment, encompassing a broad range of matters that affect communities and Aboriginal peoples in the study area in a way that recognizes interrelationships, system functions and vulnerabilities. A description of the rural and urban settings likely to be affected by the project will be provided.	5 6	B C	7.1 14	7.1-1 14-1	Social Baseline Aboriginal Background	Appendix 7.1.1A: Social 2013 Baseline Report (AMEC E&I) (App Volume 17)
162	9.1.2	25	Biophysical Environment - Human Environment	In describing physical and cultural heritage, the proponent will provide information on heritage resources, including structures, sites or things of historical, archaeological, paleontological or architectural significance.	5	B	8.1	8-1	Heritage Baseline	Appendix 8.1A: Archaeology 2013 Baseline Report (AMEC E&I) (App Volume 17)

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163	9.1.2	25	Biophysical Environment - Human Environment	In describing current uses of land and resources by Aboriginal groups for traditional purposes, the proponent will include activities related, but not limited, to hunting, fishing, trapping, cultural and other traditional uses of the land (e.g. collection of medicinal plants, use of sacred sites). Potential effects on current uses include access to areas that are of importance or concern to Aboriginal groups.	5 6 6	B C C	7.1.3 14 15	7.1-17 14-1 15-1	Social Baseline: Current Land and Resource Use for Traditional Purposes Aboriginal Groups Background Information Aboriginal Rights	
164	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	For the purposes of developing the EIS, the proponent will engage with Aboriginal groups whose potential or established Aboriginal rights and Treaty rights and related interests may be affected by the project, which include at a minimum the following groups: - Lhoosk'uz Dene Nation; - Ulkatcho First Nation; - Nazko First Nation; - Nadleh Whut'en First Nation; - Saik'uz First Nation; - Skin Tyee Nation; - Stellat'en First Nation; - Tsilhqot'in National Government; and, - Métis Nation of British Columbia.	6	C	15	15-1	Aboriginal Rights	
165	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	In preparing the EIS, the proponent will ensure that Aboriginal groups, especially those most likely to be affected by the project, have access to timely and relevant information that they require in respect of the project and how the project may adversely impact them.	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)

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166	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	For the Aboriginal groups previously identified by the Agency, the proponent will hold meetings and facilitate these by making key EA summary documents (baseline studies, EIS and key findings) accessible and making plain language summaries of these documents.	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
167	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	At a minimum, the EIS will summarize available information on the potential or established Aboriginal and Treaty rights and related interests of the named Aboriginal groups that have the potential to be adversely impacted by the project. As part of this summary, the EIS will include for each Aboriginal group: • background information and a map of the group's potential traditional territory	5 6	B C	7.1.3 14	7.1-17 14-1	Social Baseline: Current Land and Resource Use for Traditional Purposes Aboriginal Groups Background Information	Figure 7.1.3-1: First Nations Territories and Current Land and Resource Use for Traditional Purposes Study Areas
168	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	• A summary of engagement activities conducted prior to the submission of the EIS, including the date and means of engagement (e.g., meeting, mail, telephone);	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
169	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	• Information on each group's potential or established rights (including geographical extent nature, frequency, timing), including maps and data sets (e.g. fish catch numbers) when this information is provided by a group to the proponent	5 6	B C	7.1.3 14	7.1-17 14-1	Social Baseline: Current Land and Resource Use for Traditional Purposes Aboriginal Groups Background Information	Figure 7.1.3-1: First Nations Territories and Current Land and Resource Use for Traditional Purposes Study Areas
170	9.2	26	Potential or Established Aboriginal and Treaty Rights and Related Interests	• An overview of key comments and concerns provided by each group to the proponent • Responses provided by government and/or the proponent, as appropriate • Future planned engagement activities The Agency will provide additional instructions to the proponent in cases where further research and/or engagement effort by the proponent is	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports

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				required to support Canada's ability to fulfil the duty to consult with one or more Aboriginal groups that may be adversely affected by the project. Should the proponent have knowledge of potential adverse impacts to an Aboriginal group not appearing on the above list; the proponent will bring this to the attention of the Agency at the earliest opportunity.						(November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18) Table 17.3.1-1: Key Issues, Concerns, and Interests Expressed by Lhoosk'uz Dene Nation and Responses Provided by the Proponent Table 17.3.2-1: Key Issues, Concerns, and Interests Expressed by Nadleh Whut'en First Nation and Responses Provided by the Proponent Table 17.3.3-1: Key Issues, Concerns, and Interests Expressed by Saik'uz First Nation and Responses Provided by the Proponent Table 17.3.4-1: Key Issues, Concerns, and Interests Expressed by Stellat'en First Nation and Responses Provided by the Proponent Table 17.3.5-1: Key Issues, Concerns, and Interests Expressed by Ulkatcho First Nation and Responses Provided by the Proponent Table 17.3.6-1: Key Issues, Concerns, and Interests Expressed by Nazko First Nation and Responses Provided by the Proponent Table 17.3.7-1: Key Issues, Concerns, and Interests Expressed by Skin Tyee Nation and Responses Provided by the Proponent Table 17.3.8-1: Key Issues, Concerns, and Interests Expressed by Tsilhqot'in National Government and Responses Provided by the Proponent Table 17.3.9-1: Key Issues, Concerns, and Interests Expressed by Métis Nation BC and Responses Provided by the Proponent
SECTION 10 - EFFECTS ASSESSMENT										
171	10.1.1	27	Methodology	The proponent will indicate the project's effects during construction, operation, maintenance, foreseeable modifications, and where relevant, closure, decommissioning and restoration of sites and facilities associated with the project, and describe these effects using appropriate criteria.	2 2 2	B B B	4.3 4.3.5 4.3.6	4-16 4-31 4-40	Assessment of Potential Effects on Selected Valued Components Evaluating Residual Project Effects Assessment of Cumulative Effects	Table 4.3-2: Project Component and Activity Interaction Matrix for Selected VCs
172	10.1.1	27	Methodology	To the maximum extent possible, this documentation will include, for each potential project-related environmental effect, an indication of the nature of the effect, mechanism, magnitude, direction, duration, frequency and timing,	2 2 2	B B B	4.3.5.1 4.3.5.3 4.3.6.3	4-31 4-37 4-46	Characterization of Residual Effects Significance Evaluation of Residual Adverse Cumulative Effects	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-8: Example of Use of Environment and Heritage

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				geographic extent, and the degree to which it may be reversible.						Rating Criteria to Evaluate Significance of Adverse Residual Effects
173	10.1.1	27	Methodology	The proponent will consider both the direct and indirect, reversible and irreversible, short- and long-term environmental effects of the project. In predicting and assessing the project's effects, the proponent will indicate important details and clearly state the elements and functions of the environment that may be affected, specifying the location, extent and duration of these effects and their overall impact.	2	B	4.3.3	4-26	Potential Project Effects	
174	10.1.1	27	Methodology	The assessment of the effects of each of the project components and physical activities, in all phases, will be based on a comparison of the biophysical and human environments between the predicted future conditions with the project and the predicted future conditions without the project. In undertaking the environmental effects assessment, the proponent will use best available information and methods. All conclusions will be substantiated. Predictions will be based on clearly stated assumptions. The proponent will describe how it has tested each assumption. With respect to quantitative models and predictions, the proponent will discuss the assumptions that underlie the model, the quality of the data and the degree of certainty of the predictions obtained.	2 2 2 2	B B B B	4.1 4.3 4.3.5 4.3.6	4-2 4.16 4-31 4-40	General Approach Assessment of Potential Effects on Selected Valued Components Evaluating Residual Project Effects Assessment of Cumulative Effects	
175	10.1.1	28	Methodology	Risk assessment framework The proponent is expected to employ standard ecological risk assessment frameworks that categorize the levels of detail and quality of the data required for the assessment. These tiers are as follows: • Tier 1: Qualitative (expert opinion, including traditional and local knowledge, literature review, and existing site information); • Tier 2: Semi-quantitative (measured site-specific data and existing site information); and, • Tier 3: Quantitative (recent field surveys and detailed quantitative methods). Thus, if the Tier 2 assessment still indicates a potential for effects to VCs, a Tier 3 assessment would need to be conducted to reduce the level of uncertainty. If the risk characterization component is uncertain this may necessitate the probabilistic	2	B	4.1	4-2	General Approach	Table 4.3-3: Quantitative and Qualitative Methods for Assessing the Effects on Selected Valued Components

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				modelling of the population-level consequences of the proposed project.						
176	10.1.1	28	Methodology	Biophysical changes to the environment that may impact human health include changes to: air quality, water quality, noise levels, contaminants in country food sources, and radiation levels. Such changes in the biophysical environment, as described in Section 9 (Baseline Environment), can impact human health. When risks to human health due to changes in one or more of these components are predicted, a complete Human Health Risk Assessment (HHRA) examining all exposure pathways for pollutants of concern may be necessary to adequately characterize potential risks the human health.	5	B	9.2.2	9-27	Environmental Exposures	Appendix 9.1A: 2011 – 2012 Environmental Health Baseline Report (AMEC E&I) (App Volume 17) Appendix 9.2.2A: Human Health Ecological Risk Assessment (AMEC E&I) (App Volume 18) Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Appendix 5.1.1.3A: Blackwater Gold Project 2011 - 2013 Noise and Vibration Baseline Report (AMEC E&I) (App Volume 4)
177	10.1.1	28	Methodology	Impact matrix An impact matrix methodology in combination with identification of VCs should be used to evaluate environmental effects of the proposed project, including those related to Aboriginal peoples. The assessment will include the following general steps: • Identification of the activities and components of the project;	2	B	4.3	4-16	Assessment of Potential Effects on Selected Valued Components	Table 4.3-2: Project Component and Activity Interaction Matrix for Selected VCs
178	10.1.1	28	Methodology	• Predicting/evaluating the likely effects on identified valued components;	2	B	4.3	4-16	Assessment of Potential Effects on Selected Valued Components	Table 4.3-2: Project Component and Activity Interaction Matrix for Selected VCs
179	10.1.1	28	Methodology	• Identification of technically and economically feasible mitigation measures for any significant adverse environmental effects;	2 6 6	B B D	4.3.4 12.2 20	4-30 12.2-1 20-1	Mitigation of Project Effects Environmental Management Plans Summary of Mitigation Measures	
180	10.1.1	28	Methodology	• Determination of any residual environmental effects;	2	B	4.3.5	4-31	Evaluating Residual Project Effects	
181	10.1.1	28	Methodology	• Ranking of each residual adverse environmental effect based on various criteria; and,	2	B	4.3.5.1	4-31	Characterization of Residual Effects	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3 7: Criteria Rating for Geographic Extent for Characterizing Residual Effects

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182	10.1.1	28	Methodology	• Determination of the potential significance of any residual environmental effect following the implementation of mitigation.	2	B	4.3.5.3	4-37	Significance	Table 4.3-4: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects
183	10.1.1	28	Methodology	Application of precautionary approach In documenting the analyses included in the EIS, the proponent will: • Demonstrate that all aspects of the project have been examined and planned in a careful and precautionary manner in order to ensure that they would not cause serious or irreversible damage to the environment, especially with respect to environmental functions and integrity, system tolerance and resilience, and/or the human health of current or future generations;	2	B	4.4	4-47	Limitations	
184	10.1.1	28	Methodology	• Outline and justify the assumptions made about the effects of all aspects of the project and the approaches to minimize these effects;	2	B	4.4	4-47	Limitations	
185	10.1.1	29	Methodology	• Ensure that in designing and operating the project, priority has been and would be given to strategies that avoid the creation of adverse effects;	1	A	2.5	2.5-1	Alternative Means of Undertaking the Proposed Project	
186	10.1.1	29	Methodology	• Develop contingency plans that explicitly address accidents and malfunctions; and,	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	B B B B B B B B B B B B B B B B B B B	10 10.8.1.1.3 10.8.1.2.6 10.8.1.3.3 10.8.1.4.3 10.8.1.5.3 10.8.1.6.3 10.8.2.1.3 10.8.2.2.3 10.8.2.3.3 10.8.2.4.3 10.8.2.5.3 10.8.2.6.3 10.8.2.7.3 10.8.2.8.3 10.8.2.9.3 10.8.2.10.3 10.8.3.1.3 10.8.3.2.3 10.8.3.3.3	10-1 10-19 10-25 10-32 10-33 10-35 10-36 10-39 10-40 10-41 10-43 10-44 10-46 10-49 10-51 10-53 10-54 10-56 10-57 10-58	Accidents or Malfunctions Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency	

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									Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures Contingency and Emergency Response Procedures	
187	10.1.1	29	Methodology	• Identify any proposed follow-up and monitoring activities, particularly in areas where scientific uncertainty exists in the prediction of effects.	2 6	B B	4.3.7 13	4.3-46 13-1	Follow-up Strategy Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
188	10.1.2	29	Changes to the environment	Section 5 of CEAA, 2012 describes specific categories of direct and indirect environmental effects that will be considered in the EA (see Figure 2). However, to be able to assess these categories of environmental effects, a complete understanding of the changes the project will cause to the environment is required, including changes that are directly linked or necessarily incidental to any federal decisions that would permit the project to be carried out. The EIS will describe any change that may be caused by the project (as scoped in section 6 of this document) on the environment, which is defined as the components of the Earth, including: • Land, water and air, including all layers of the atmosphere; • All organic and inorganic matter and living organisms; and, • The interacting natural systems that include the components described above. These descriptions will be integrated into the effects	2 3 3	B B B	5.2 5.3 5.4	5.2-1 5.3-1 5.4-1	Atmospheric and Acoustic Environment Effects Assessment Aquatic Environment Effects Assessment Terrestrial Environment Effects Environment	

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				assessment sections of each VC included in the EIS.						
189	10.1.2	29	Changes to the environment	Changes to components of the environment within federal jurisdiction The EIS will include a stand-alone section that summarises those changes that may be caused by the project on the components of the environment listed in paragraph 5(1)(a) of CEAA, 2012, namely fish and fish habitat, aquatic species and migratory birds. Changes to the environment that would occur on federal or transboundary lands The EIS will include a stand-alone section that summarises any change the project may cause to the environment that may occur on federal lands or lands outside the province in which the project is to be located (including outside of Canada). Changes to the environment that are directly linked or necessarily incidental to federal decisions In situations where the project requires one or more federal decisions identified in section 5.2, the EIS will also include a stand-alone section that describes any change that may be caused by the project on the environment that is directly linked or necessarily incidental to these decisions.	6	D	19	19-1	Summary for Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
190	10.1.3	30	Effects of changes to the environment	Effects of changes to the environment on Aboriginal peoples. The EIS will describe the effects of any changes the project may cause to the environment, with respect to Aboriginal peoples, on health and socio-economic conditions, physical and cultural heritage, the current use of lands and resources for traditional purposes, or any structure, site or thing that is of historical, archaeological, paleontological or architectural significance. Effects of changes to the environment that are directly linked or necessarily incidental to federal decisions In situations where the EIS has identified changes to the environment that are directly linked or necessarily incidental to federal decisions identified in section 5.2, the EIS will also include a stand-alone section that describes the effects of these	5 5 5 5	B B B B	7.2 7.2.7 8.2 9.2	7.2-1 7.2.7-1 8-8 9-22	Social Effects Assessment Current Land and resources Use for Traditional Purposes Heritage Effects Assessment Health Effects Assessment	

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				changes on health and socio-economic conditions, physical and cultural heritage, or any structure, site or thing that is of historical, archaeological, paleontological or architectural significance, other than as they pertain to Aboriginal peoples (who are considered in the previous section).						
191	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	The EIS will describe the potential adverse impacts of the project on the ability of Aboriginal peoples to exercise the potential or established Aboriginal and Treaty rights and related interests identified in section 9.2. As part of this description, this section will summarise: • Potential adverse impacts (on potential or established Aboriginal and Treaty rights and related interests) that were identified through the environmental effects described in sections 9.1.2 and 9.1.3;	6 6	C C	15 16	15-1 16-1	Aboriginal Rights Other Aboriginal Interests	
192	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	• Specific issues and concerns raised by Aboriginal groups in relation to the potential adverse impacts of the project on potential or established Aboriginal and Treaty rights and related interests;	6	C	17	17-1	Aboriginal Groups Consultation	
193	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	•VCs suggested for inclusion in the EIS, whether or not those factors were included, and the rationale for any exclusions;	5	B	7.2.7	7.2.7-1	Current Land and Resource Use for Traditional Purposes	
194	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	• Where and how Aboriginal traditional knowledge or other Aboriginal views were incorporated into the consideration of environmental effects and potential adverse impacts on potential or established Aboriginal and Treaty rights and related interests;	6 6	C C	15 16	15-1 16-1	Aboriginal Rights Other Aboriginal Interests	
195	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	and, • Efforts undertaken to engage with Aboriginal groups as part of collecting the information identified above.	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 17A: Summary of Communications with Aboriginal Groups (AMEC E&I) (App Volume 18)
196	10.2	30	Adverse Impacts on Aboriginal and Treaty Rights and Related Interests	The assessment of the potential adverse impacts of each of the project components and physical activities, in all phases, will be based on a comparison of the exercise of the identified rights between the predicted future conditions with the project and the predicted future conditions without the project. It is recommended that the impact	6 6	C C	15 16	15-1 16-1	Aboriginal Rights Other Aboriginal Interests	

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				matrix methodology described in section 10.1.1 be adapted for this purpose.						
197	10.3	31	Public concerns	This section will detail public concerns raised in relation to the project, including through public consultation conducted prior to the preparation of the EIS, and/or community knowledge that may have been provided.	2	A	3.4	3-35	Public and Agency Information Distribution and Consultation	Table 3.4-5: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses Appendix 3.1.3A AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B Issues Tracking Tables) (AMEC E&I) (App Volume 4) Appendix 3.1.3C Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4)
SECTION 11 - MITIGATION										
198	11.1.1	31	Methodology	Every EA conducted under CEAA, 2012 will consider clear, enforceable measures that are technically and economically feasible and that would mitigate any significant adverse environmental effects of the project. As a first step, the proponent is encouraged to use an approach based on the avoidance and reduction of the effects at the source. Such an approach may include the modification of the design of the project or relocation of project components.	1 2 2-5 6 6	A B B B D	2.5 4.3.4 5 to 9 12.2 20	2.5-1 4-30 - 12.2.1-1 20-1	Alternative Means of Undertaking the Project Mitigation of Project Effects Sections under the specific Section 5 to 9 Under Each Valued Components: Section Title – Potential Effects of the Proposed Project and Proposed Mitigation Environmental Management Plans Summary of Mitigation Measures	Table 20-1: Proposed Key Mitigation Measures Appendix 2.2A-2: Mine Waste and Water Management Design Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.2A-4: Geotechnical Characterization Report (Knight Piésold Ltd.) (App Volume 1) Appendix 2.5A: Assessment of Alternatives for the Blackwater Gold Project Tailings Storage Facility (ERM Rescan) (App Volume 3)
199	11.1.1	31	Methodology	The EIS will describe the standard mitigation practices, policies and commitments that constitute technically and economically feasible mitigation measures and that will be applied as part of standard practice regardless of location. The proponent will then describe its environmental protection plan and its environmental management system, through which it will deliver this plan. The plan will provide an overall perspective on how potentially adverse effects would be minimized and managed over time.	1 2 2-5 6 6 6	A B B B B D	2.2.5 4.3.4 5 to 9 12 13 20	2.2-268 4-30 - 12.1-1 13-1 20-1	Environmental Management System and Adaptive Management Approach Mitigation of Project Effects Section 5 to 9 Under Each Valued Component: Section Title – Potential Effects of the Proposed Project and Proposed Mitigation Summary of Proposed Environmental and Operational Management Plans Follow-up Monitoring and Compliance Reporting Summary of Mitigation Measures	Table 20-1: Proposed Key Mitigation Measures

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200	11.1.1	31	Methodology	The EIS will then describe mitigation measures that are specific to each environmental effect identified in section 10.1. Measures will be written as specific commitments that clearly describe how the proponent intends to implement them. Where mitigation measures have been identified in relation to species and/or critical habitat listed under the Species at Risk Act, the mitigation measures will be consistent with any applicable recovery strategy and action plans.	2 3 4 6	B B B D	5.2 5.3 5.4 20	5.2-1 5.3-1 5.4-1 20-1	Atmospheric and Acoustic Environment Effects Assessment Aquatic Environment Effects Assessment Terrestrial Environment Effects Assessment Under Each Valued Component: "Potential Effects of the Proposed Project and Proposed Mitigation" Summary of Mitigation Measures	Table 20-1: Proposed Key Mitigation Measures
201	11.1.1	32	Methodology	The EIS will describe proponent commitments, policies and arrangements directed at promoting beneficial or mitigating adverse socio-economic effects.	4 5 6 6 6	B B B B D	6.2 7.2 12 13 20	6-1 7.2-1 12.1-1 13-1 20-1	Economic Effects Assessment Social Effects Assessment Under Each Valued Component: Potential Effects of the Proposed Project and Proposed Mitigation Summary of Proposed Environmental and Operational Management Plans Follow-up Monitoring and Compliance Reporting Summary of Mitigation Measures	Table 20-1: Proposed Key Mitigation Measures
202	11.1.1	32	Methodology	The EIS will further discuss the mechanisms the proponent would use to require its contractors and sub-contractors to comply with these commitments and policies and with auditing and enforcement programs.	1 6	A B	2.2.5 12.1	2.2-268 12.1-1	Environmental Management System and Adaptive Management Approach Environmental Management System	
203	11.1.1	32	Methodology	The EIS will specify the actions, works, minimal disturbance footprint techniques, best available technology, corrective measures or additions planned during the project's various phases (construction, operation, modification, decommissioning, abandonment or other undertaking related to the project) to eliminate or reduce the significance of adverse effects. The impact statement will also present an assessment of the effectiveness of the proposed technically and	2 2 2-5 6	A A B B	4.3.4 4.3.5.4 5 to 9 13	4-30 4-39 - 13-1	Mitigation of Project Effects Confidence and Risk Section 5 to 9 Under Each Valued Component: Section Title –Potential Effects of the Proposed Project and Proposed Mitigation Follow-up Monitoring and Compliance Reporting	

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				economically feasible mitigation measures. The reasons for determining if the mitigation measure reduces the significance of an adverse effect will be made explicit.						
204	11.1.1	32	Methodology	The EIS will indicate what other technically and economically feasible mitigation measures were considered, including the various components of mitigation, and explain why they were rejected. Trade-offs between cost savings and effectiveness of the various forms of mitigation will be justified. The EIS will identify who is responsible for the implementation of these measures and the system of accountability.	1 2 2-5 6 6 6	A B B B D D	2.5 4.3.5.4 5 to 9 12 13 20	2.5-1 4-39 - 12.1-1 13-1 20-1	Alternative Means of Undertaking the Proposed Project Confidence and Risk Section 5 to 9 Under Each Valued Component: Section Title –Potential Effects of the Proposed Project and Proposed Mitigation Summary of Proposed Environmental and Operational Management Plans Follow-up Monitoring and Compliance Reporting	Table 20-1: Proposed Key Mitigation Measures
205	11.1.1	32	Methodology	Where mitigation measures are proposed to be implemented for which there is little experience or for which there is some question as to their effectiveness, the potential risks and effects to the environment should those measures not be effective will be clearly and concisely described.	2 2-5 6	B B B	4.3.5.4 5 to 9 13	4-39 - 13-1	Confidence and Risk Section 5 to 9 Under Each Valued Component: Section Title –Potential Effects of the Proposed Project and Proposed Mitigation Follow-up Monitoring and Compliance Reporting	
206	11.1.1	32	Methodology	In addition, the EIS will identify the extent to which technology innovations will help mitigate environmental effects. Where possible, it will provide detailed information on the nature of these measures, their implementation, management and the development of the Follow-up Program as described in section 11.4.	2 2 2-5 6 6	A B B B D	4.3.4 4.3.5.4 5 to 9 13 20	4-30 4-39 - 13-1 20-1	Mitigation of Project Effects Confidence and Risk Section 5 to 9 Under Each Valued Component: Section Title –Potential Effects of the Proposed Project and Proposed Mitigation Follow-up Monitoring and Compliance Reporting Summary of Mitigation Measures	Table 20-1: Proposed Key Mitigation Measures
207	11.1.1	32	Methodology	Adaptive management is not considered a valid mitigation measure, but if the Follow-up Program indicates that corrective action is required, the proposed approach for managing the response should be identified.	1 6 6	A B D	2.2.5 13 20	2.2-268 13-1 20-1	Environmental Management System and Adaptive Management Approach Follow-up Monitoring and Compliance Reporting	Table 20-1: Proposed Key Mitigation Measures

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									Summary of Mitigation Measures	
208	11.1.2	32	Summary of environmental mitigation	In addition, the EIS will summarise the mitigation measures, follow-up and related commitments identified to address the categories of environmental effects specified in section 10: • Changes to components of the environment within federal jurisdiction; • Changes to the environment that would occur on federal or transboundary lands; • Changes to the environment that are directly linked or necessarily incidental to federal decisions;	6 6 6	D D D	13 19 19.3 20	13-1 19-1 19-27 20-1	Follow-up Monitoring and Compliance Reporting Summary of Residual Effects Summary of Effects to Federal Lands Summary of Mitigation Measures	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Table 20-1: Proposed Key Mitigation Measures Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
209	11.1.2	32	Summary of environmental mitigation	• Effects of changes to the environment on Aboriginal peoples; and,	6 6	C D	18 19	18-1 19-1	Summary of Aboriginal Groups Information Summary of Residual Effects	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of

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										Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 19.1-8: Summary of Federal Requirements Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
210	11.1.2	32	Summary of environmental mitigation	• Effects of changes to the environment that are directly linked or necessarily incidental to federal decisions.	6	D	19	19-1	Summary of Residual Effects	Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18) Table 19-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal

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										Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
211	11.2	33	Measures to address impacts on Aboriginal rights	This section will describe the measures identified to mitigate the potential adverse impacts of the project described in section 10.2 on the potential or established Aboriginal and Treaty rights and related interests identified in section 9.2. These measures will be written as specific commitments that clearly describe how the proponent intends to implement them. This description will include a summary of: • Specific suggestions raised by Aboriginal groups for mitigating the potential adverse impacts of the project on potential or established Aboriginal and Treaty rights and related interests in relation to environmental effects specified in sections 10.1.2 and 10.1.3;	5 6 6	B C C	9.2.2 15 16	9-27 15-1 16-1	Environmental Exposures Aboriginal Rights Other Aboriginal Interests	Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.2-2: Lhoosk'uz Dene Nation – Rights and Effects Tracking Table Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.3-2: Nadleh Whut'en First Nation – Rights and Effects Tracking Table Table 15.4-1: Summary of Saik'uz First Nation Rights and Concerns Raised in Relation to the Project Table 15.4-2: Saik'uz First Nation – Rights and Effects Tracking Table Table 15.5-1 Summary of Stellat'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.5-2: Stellat'en First Nation – Rights and Effects Tracking Table Table 15.6-1: Summary of Ulkatcho First Nation Rights and Concerns Raised in Relation to the Project Table 15.6-2: Ulkatcho First Nation – Rights and Effects Tracking Table Table 15.7-1: Summary of Nazko First Nation Rights and Concerns Raised in Relation to Project Table 15.7-2: Nazko First Nation – Rights and Effects Tracking
	11.2	33	Measures to address impacts on Aboriginal rights	• Environmental mitigation measures identified in section 11.1 that also serve to address potential adverse impacts on potential or established Aboriginal and Treaty rights and related interests;	6 6	C C	15 16	15-1 16-1	Aboriginal Rights Other Aboriginal Interests	Appendix 9.2.2B: Country Food Monitoring Plan (AMEC E&I) (App Volume 18) Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.2-2: Lhoosk'uz Dene Nation – Rights and Effects Tracking Table Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.3-2: Nadleh Whut'en First Nation – Rights and Effects Tracking Table Table 15.4-1: Summary of Saik'uz First Nation Rights and Concerns Raised in Relation to the Project

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213	11.2	33	Measures to address impacts on Aboriginal rights	• Any potential cultural, social and/or economic impacts or benefits to Aboriginal groups that may arise as a result of the project;	1 4 5 6 6 6	A B B C C C	2.8 6.2 7.2 15 16 18	2.8-1 6-11 7.2.1-1 15-1 16-1 18-1	Proposed Project Benefits Economic Effects Assessment Social Effects Assessment Aboriginal Rights Other Aboriginal Interests Summary of Aboriginal Groups Information	Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.2-2: Lhoosk'uz Dene Nation – Rights and Effects Tracking Table Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.3-2: Nadleh Whut'en First Nation – Rights and Effects Tracking Table Table 15.4-1: Summary of Saik'uz First Nation Rights and Concerns Raised in Relation to the Project Table 15.4-2: Saik'uz First Nation – Rights and Effects Tracking Table Table 15.5-1 Summary of Stellat'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.5-2: Stellat'en First Nation – Rights and Effects Tracking Table Table 15.6-1: Summary of Ulkatcho First Nation Rights and Concerns Raised in Relation to the Project Table 15.6-2: Ulkatcho First Nation – Rights and Effects Tracking Table Table 15.7-1: Summary of Nazko First Nation Rights and Concerns Raised in Relation to Project Table 15.7-2: Nazko First Nation – Rights and Effects Tracking Table Table 16.2-1: Lhoosk'uz Dene Nation Interests Table 16.2-2: Summary of Lhoosk'uz Dene Nation Interests Table 16.3-1: Summary of Nadleh Whut'en First Nation Interests Table 16.3-2: Nadleh Whut'en First Nation Interests Table 16.4-1: Summary of Saik'uz First Nation Interests Table 16.4-2: Saik'uz First Nation Interests Table 16.5-1: Summary of Stellat'en First Nation Interests Table 16.5-2: Stellat'en First Nation Interests

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										Table 16.6-1: Summary of Ulkatcho First Nation Interests Table 16.6-2: Ulkatcho First Nation Interests Table 16.7-1: Summary of Nazko First Nation Interests Table 16.7-2: Nazko First Nation Interests Table 16.8-1: Summary of Skin Tyee First Nation Interests Table 16.8-2: Skin Tyee First Nation Interests Table 16.9-1: Summary of Tsilhqot'in First Nation Interests Table 16.9-2: Tsilhqot'in National Government Interests Table 16.10-1: Summary of Métis Nation BC Interests Table 16.10-2: Métis Nation BC Interests Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodation Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures
214	11.2	33	Measures to address impacts on Aboriginal rights	• Where and how Aboriginal traditional knowledge or other Aboriginal views were incorporated into the mitigation of environmental effects of potential adverse impacts on potential or established Aboriginal and Treaty rights and related interests; and,	2-5 6 6 6 6	A C C C C	5 to 9 15 16 17 18	- 15-1 16-1 17-1 18-1	Section under each Valued Component Aboriginal Rights Other Aboriginal Interests Aboriginal Groups Consultation Summary of Aboriginal Groups Information	Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.2-2: Lhoosk'uz Dene Nation – Rights and Effects Tracking Table Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.3-2: Nadleh Whut'en First Nation – Rights and Effects Tracking Table Table 15.4-1: Summary of Saik'uz First Nation Rights and Concerns Raised in Relation to the Project Table 15.4-2: Saik'uz First Nation – Rights and Effects Tracking Table Table 15.5-1 Summary of Stellat'en First Nation Rights and

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										Concerns Raised in Relation to the Project Table 15.5-2: Stellat'en First Nation – Rights and Effects Tracking Table Table 15.6-1: Summary of Ulkatcho First Nation Rights and Concerns Raised in Relation to the Project Table 15.6-2: Ulkatcho First Nation – Rights and Effects Tracking Table Table 15.7-1: Summary of Nazko First Nation Rights and Concerns Raised in Relation to Project Table 15.7-2: Nazko First Nation – Rights and Effects Tracking Table Table 16.2-1: Lhoosk'uz Dene Nation Interests Table 16.2-2: Summary of Lhoosk'uz Dene Nation Interests Table 16.3-1: Summary of Nadleh Whut'en First Nation Interests Table 16.3-2: Nadleh Whut'en First Nation Interests Table 16.4-1: Summary of Saik'uz First Nation Interests Table 16.4-2: Saik'uz First Nation Interests Table 16.5-1: Summary of Stellat'en First Nation Interests Table 16.5-2: Stellat'en First Nation Interests Table 16.6-1: Summary of Ulkatcho First Nation Interests Table 16.6-2: Ulkatcho First Nation Interests Table 16.7-1: Summary of Nazko First Nation Interests Table 16.7-2: Nazko First Nation Interests Table 16.8-1: Summary of Skin Tyee First Nation Interests Table 16.8-2: Skin Tyee First Nation Interests Table 16.9-1: Summary of Tsilhqot'in First Nation Interests Table 16.9-2: Tsilhqot'in National Government Interests Table 16.10-1: Summary of Métis Nation BC Interests Table 16.10-2: Métis Nation BC Interests Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodation Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures

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										Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures
215	11.2	33	Measures to address impacts on Aboriginal rights	• Efforts undertaken to engage with Aboriginal groups as part of developing the information identified above.	2 6	B C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
216	11.2	33	Measures to address impacts on Aboriginal rights	In preparing the EIS, the proponent will ensure that Aboriginal people and groups have access to the information that they require in respect of the project and of how it may impact them. The proponent will describe all efforts, successful or not, taken to solicit the information required to prepare the EIS.	2 6	B C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 3.1.3B: Issues Tracking Tables) (AMEC E&I) (App Volume 4) Appendix 3.3.1A: Aboriginal Groups Consultation Plan (May 2014) and Aboriginal Groups Consultation Reports (April/May 2014) (AMEC E&I) (App Volume 4) Appendix 3.3.1B: Aboriginal Groups Consultation Reports (November 2014) (ERM Rescan) (App Volume 4) Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18)
217	11.2	33	Measures to address impacts on Aboriginal rights	The proponent will structure its Aboriginal engagement activities to provide adequate time for Aboriginal groups to have reviewed the relevant information in advance and to ensure there are sufficient opportunities for individuals and groups to provide oral input in the language of their choosing. Consultation activities must be appropriate to the groups' needs and should be arranged through discussions with the groups.	2 6	A C	3.3 17	3-10 17-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Groups Consultation	Appendix 17A: Key Records of Contact for Aboriginal Groups (AMEC E&I) (App Volume 18) Appendix 3.3.1A Aboriginal Groups Consultation Plan and Aboriginal Groups Consultation Reports (AMEC E&I) (App Volume 4) Table 3.3-3: Schedule of Consultation Activities
218	11.3	33	Measures to address public concerns	This section will describe measures identified for addressing public concerns in relation to the project identified in section 10.3. Measures will be written as specific commitments that clearly describe how the proponent intends to implement them.	2	A	3.4	3-35	Public and Agency Information Distribution and Consultation	Table 3.4-4: Key Comments and Concerns Expressed by the Public and Local Government Agencies and Responses Appendix 3.4.1A Public Consultation Plan (Context Research Ltd.) (App Volume 4)
219	11.3	33	Measures to address public concerns	For any consultations undertaken with the general public, the EIS will describe the ongoing and proposed consultations and information sessions with respect to the project at the local, regional and provincial levels, where applicable. The EIS will	2	A	3.4	3-35	Public and Agency Information Distribution and Consultation	Table 3.4-1: Project Media Notices Table 3.4-2: Open Houses Table 3.4-3: Public Comment Period Notification Advertisements Table 3.4-4: Key Comments and Concerns Expressed by the

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				provide a summary of discussions, indicate the methods used and their relevance, locations, the persons and organizations consulted, the concerns raised, the extent to which this information was incorporated in the design of the project as well as in the EIS, and the resultant changes. The proponent will also provide a description of efforts made to distribute project information and provide a description of information and materials that were distributed during the consultation process.						Public and Responses Appendix 3.1.3A AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B Issues Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3C Summary of Consultation Key Contact Summary (AMEC E&I) (App Volume 4) Appendix 3.3.1A Aboriginal Groups Consultation Plan and Aboriginal Groups Consultation Reports (AMEC E&I) (App Volume 4) Appendix 3.4.1A Public Consultation Plan (Context Research Ltd.) (App Volume 4) Appendix 3.4.1B Media Articles (AMEC E&I) (App Volume 4) Appendix 3.4.1C Advertisement and Scheduling (AMEC E&I) (App Volume 4) Appendix 3.4.1D Open House Report (Context Research Ltd.) (App Volume 4)
220	11.4	34	Follow-Up Program	A Follow-up Program is designed to verify the accuracy of the effects assessment and to determine the effectiveness of the measures implemented to mitigate the adverse effects of the project. The EIS will describe the proposed Follow-up Program in sufficient detail to allow independent judgment as to the likelihood that it will deliver the type, quantity and quality of information required to reliably verify predicted effects (or absence of them), and to confirm both the assumptions and the effectiveness of mitigation. The Follow-up Program will include specific commitments that clearly describe how the proponent intends to implement them. The Follow-up Program will be designed to incorporate baseline data, compliance data (such as established benchmarks, regulatory documents, standards or guidelines) and real time data (such as observed data gathered in the field). The proponent will describe the reporting methods to be used, including frequency, methods and format.	6	B	13	13-1	Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
221	11.4	34	Follow-Up Program	The effects predictions, assumptions and mitigation actions that are to be tested in the follow-up program must be converted into field-testable monitoring objectives. The monitoring design must include a statistical evaluation of the adequacy of existing baseline data to provide a benchmark against which to test for project effects, and the need for any additional pre-construction or preoperational monitoring to establish a firmer	6	B	13	13-1	Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program

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				project baseline. The Follow-up Program will include a schedule indicating the frequency and duration of effects monitoring. This schedule is to be developed after an evaluation of the length of time needed to detect effects given estimated baseline variability, likely magnitude of environmental effect and desired level of statistical confidence in the results (Type 1 and Type 2 errors). The description of the Follow-up Program will include any contingency procedures/plans or other adaptive management provisions as a means of addressing unforeseen effects or for correcting exceedances as required to comply or to conform to benchmarks, regulatory standards or guidelines.						
222	11.4	34	Follow-Up Program	The Follow-up Program will also be designed to monitor the implementation of mitigation measures resulting from Aboriginal consultation, including: • Verifying predictions of environmental effects with respect to Aboriginal peoples, as well as residual impacts that could not be addressed within the context of the EA; • Determining the effectiveness of mitigation measures as they relate to environmental effects with respect to Aboriginal peoples in order to modify or implement new measures where required; • Supporting the implementation of adaptive management measures to address previously unanticipated adverse environmental effects with respect to Aboriginal peoples or unanticipated adverse impacts to Aboriginal rights; • Verifying measures identified to prevent and mitigate potential adverse effects of the project on potential or established Aboriginal and Treaty rights; and, • Providing information that can be used to improve and/or support future EAs and Aboriginal consultation processes. Where appropriate, the Follow-up Program can also encompass measures identified to address public concerns identified in section 11.3.	6	B	13	13-1	Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
223	11.5	35	Proponent commitments	Proponent commitments identified in the EIS, including environmental mitigation measures to address public and Aboriginal peoples concern, and Follow-up Program elements, may be considered for inclusion as conditions in the EA decision	6 6	B D	13 20	13-1 20-1	Follow-up Monitoring and Compliance Reporting Summary of Mitigation Measures	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases

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				statement and/or as part of other compliance and enforcement mechanisms. Each commitment will be specific, achievable, measurable and verifiable, and described in a manner that avoids ambiguity in intent, interpretation and implementation.						Table 13.5-1: Proposed Project Follow-up Monitoring Program Table 20-1: Proposed Key Mitigation Measures
SECTION 12 - RESIDUAL EFFECTS										
224	12.1.1	35	Residual environmental effects	After having established the technically and economically feasible mitigation measures, the EIS will present any residual environmental effects of the project on the biophysical and human environments after these mitigation measures have been taken into account. The residual effects, even if very small or deemed insignificant will be described.	2 2-5 6	B B D	4.1 5 to 9 21	4-2 - 21-1	General Approach Section Under each Valued Component: "Residual Effects and Their Significance" Conclusion	Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures
225	12.1.2	35	Cumulative environmental effects	The proponent will identify and assess the project's cumulative effects using the approach described in the Agency's Operational Policy Statement Addressing Cumulative Environmental Effects under the Canadian Environmental Assessment Act (visit the Canadian Environmental Assessment Agency's website at:www.ceaa-acee.gc.ca/default.asp?lang=En&n=1F77F3C2-1)	2 2-5 6	B B D	4.1 5 to 9 21	4-2 - 21-1	General Approach Section Under each Valued Component: "Cumulative Effects" Conclusion	Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
226	12.1.2	36	Cumulative environmental effects	Cumulative effects are defined as changes to the environment due to the project combined with the existence of other works or other past, present and reasonably foreseeable physical activities. Cumulative effects may result if: • Implementation of the project being studied caused direct residual negative effects on the environmental components, taking into account the application of technically and economically feasible mitigation measures; and/or, • The same environmental components are affected by other past, present or reasonably foreseeable physical activities. The EIS will describe the analysis of the total cumulative effect on a VC over the life of the project, including the incremental contribution of all current and proposed physical activities, in addition to that of the project. The EIS will include different forms of effects (e.g. synergistic, additive, induced,	2 2 2-5 6 6	B B B D D	4.1 4.3 5 to 9 19 21	4-2 4-16 - 19-1 21-1	General Approach Assessment of Potential Effects on Selected Valued Components Section Under each Valued Component: "Cumulative Effects" Assessment of Potential Effects on Selected Valued Components Summary of Residual Effects Conclusion	Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)

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				spatial or temporal) and identify impact pathways and trends.						
227	12.1.2	36	Cumulative environmental effects	The EIS will include a narrative discussion of existing projects in the vicinity of the proposed project. The narrative will include the description of any existing studies of changes to the environment resulting from those projects that are similar to potential changes resulting from the project, including any mitigation measures that were implemented, and any long term monitoring or Follow-up Program that were conducted. The effectiveness of those mitigation measures and key results of monitoring or Follow-up Programs will be described. This narrative discussion should include historical data, where available and applicable, to assist interested parties to understand the potential effects of the project and how they may be addressed.	2 2 2-5 6 6	B B B D D	4.3.6 4.3.6.2 5 to 9 19 21	4-40 4-42 - 19-1 21-1	Assessment of Cumulative Effects Project Inclusion List Section Under each Valued Component: Past, Present and Future Projects and Activities Summary of Residual Effects Conclusion	Appendix 4C: Project Inclusion List for Cumulative Effects Assessment (App Volume 4) Appendix 4D: Spatial Boundaries for Project and Activities Included in the Cumulative Effects Assessment (AMEC E&I) (App Volume 4) Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18) Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures
228	12.1.2	36	Cumulative environmental effects	The cumulative effects assessment may consider the results of any relevant study conducted by a committee established under section 73 or 74 of CEAA, 2012.	2	B	4.3.6	4-40	Assessment of Cumulative Effects	Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
229	12.1.3	36	Summary of residual environmental effects	In addition, the EIS will summarise the residual environmental effects (including cumulative environmental effects) identified in relation to the categories of environmental effects specified in sections 9.1.2 and 9.1.3: • Changes to components of the environment within federal jurisdiction; • Changes to the environment that would occur on federal or transboundary lands; • Changes to the environment that are directly linked or necessarily incidental to federal decisions	2-5 6	B D	5 to 9 19	- 19-1	Sections Under each Valued Component Summary of Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C

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										Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809 Table 21.4-2: Summary of Project Residual and Cumulative Effects and Mitigation Measures Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
230	12.1.3	36	Summary of residual environmental effects	• Effects of changes to the environment on Aboriginal peoples; and,	6 6	C D	18 19	18-1 19-1	Summary of Aboriginal Groups Information Summary of Residual Effects	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C

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										Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809 Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
231	12.1.3	36	Summary of residual environmental effects	• Effects of changes to the environment that are directly linked or necessarily incidental to federal decisions.	6	D	19	19-1	Summary of Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809 Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
232	12.2	36	Outstanding Aboriginal issues	This section will describe the potential adverse impacts on potential or established Aboriginal and Treaty rights and related interests that have not been fully mitigated as part of the environmental assessment and associated consultation with Aboriginal groups. This includes potential adverse impacts (on potential or established Aboriginal and Treaty rights and related interests) that may result from the residual and cumulative environmental effects described in section 10.2. The information in this section will assist the Crown in assessing the	6 6 6 6 6	C C C C D	15 16 17.4.2 18 19.2	15-1 16-1 17-74 18-1 19-26	Aboriginal Rights Other Aboriginal Interests Proposed Methods and Processes to Resolve Outstanding Issues Summary of Aboriginal Groups Information Outstanding Aboriginal Issues and Public Concerns	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations

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				adequacy of consultation and accommodation as set out in the Updated Guidelines for Federal Officials to Fulfill the Duty to Consult (2011).						Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures
233	12.3	37	Outstanding public concerns	This section will describe the outstanding public concerns in relation to the project that have not been resolved as a result of changes to the project, mitigation measures, or public consultation.	6	D	19.2	19-26	Outstanding Aboriginal Issues and Public Concerns	
234	12.2	37	Outstanding public concerns	This section will describe the outstanding public concerns in relation to the project that have not been resolved as a result of changes to the project, mitigation measures, or public consultation.	6	D	19.2	19-26	Outstanding Aboriginal Issues and Public Concerns	
SECTION 13 - SIGNIFICANCE DETERMINATION										
235	13.1.1	38	Methodology	This section will provide a detailed analysis of the significance of the residual environmental effects (including cumulative environmental effects) that are considered adverse, using the approach described in the Agency's Reference Guide Determining Whether a Project is Likely to Cause Significant Adverse Environmental Effects (visit the Canadian Environmental Assessment Agency's website at: www.ceaaacee.gc.ca/default.asp?lang=En&n=D213D286-1&offset=&toc=hide).	2	B	4.3	4-16	Assessment of Potential Effects on Selected Valued Components	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects
236	13.1.1	38	Methodology	The EIS will identify the criteria used to assign significance ratings to any predicted adverse effects. It will contain clear and sufficient information to enable the Agency, technical and regulatory agencies, Aboriginal groups and the public to review the proponent's analysis of the significance	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects

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				of effects. The proponent will define the terms used to describe the level of significance.						Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-10: Confidence
237	13.1.1	38	Methodology	The following elements should be used in determining the significance of residual effects: • Magnitude;	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.3.9-72: Magnitude of Residual Effect on Littoral Habitat in Tatelkuz Lake Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.7-13: Threshold(s) for Determining Magnitude of Residual Amphibian Habitat and Population Effects in the RSA Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.8-13: Threshold(s) for Determining Significance of Residual Water Bird Habitat and Population Effects in the RSA Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.9-14: Threshold(s) for Determining Significance of Residual Forest and Grassland Birds Habitat and Population Effects in the RSA Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.10-13: Threshold(s) for Determining Magnitude of Residual Moose Habitat and Population Effects in the RSA Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.11-15: Threshold(s) for Determining Magnitude of Residual Caribou Habitat and Population Effects in the RSA Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.12-16: Threshold(s) for Determining Significance of Residual Grizzly Bear Habitat and Population Effects in the RSA Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.13-15: Threshold(s) for Determining Significance of Residual Furbearer Habitat, Mortality, and Health in the RSA Table 5.4.14-11: Characterization of Residual Environmental

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										Effects for Bats Table 5.4.14-12: Threshold(s) for Determining Significance of Residual Bat Effects Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 5.4.15-11: Threshold(s) for Determining Magnitude of Residual Invertebrate Habitat and Population Effects in the RSA Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects
238	13.1.1	38	Methodology	• Geographic extent;	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3 7: Criteria Rating for Geographic Extent for Characterizing Residual Effects Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects
239	13.1.1	38	Methodology	• Timing, duration and frequency;	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating

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										Criteria to Evaluate Significance of Adverse Residual Effects Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects
240	13.1.1	38	Methodology	• Reversibility;	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.9-13: Characterization of Residual Environmental

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										Effects for Forest and Grassland Birds Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects
241	13.1.1	38	Methodology	• Ecological and social context; and,	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-4: Environment and Heritage Rating Criteria for Characterizing Residual Effects Table 4.3-5: Economic, Health and Social Rating Criteria for Characterizing Residual Effects Table 4.3-8: Example of Use of Environment and Heritage Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 4.3-9: Example of Use of Economic and Social Rating Criteria to Evaluate Significance of Adverse Residual Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates

242	13.1.1	38	Methodology	• Existence of environmental standards, guidelines or objectives for assessing the impact.	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Under each Valued Component: "Residual Effects and Their Significance"	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects Table 5.3.3-2: Mean Stream Surface Water Quality Summary for the Project Table 5.3.3-3: Mean Background Concentration Exceedances Table 5.3.3-4: Lake Water Quality Summary Means Table 5.3.3-7: Comparison of Lorax, BC FWG, and CCME (2012) Total Cadmium Guidelines Table 5.3.3-16: Modelled Pit Lake Results Table 5.3.3-17: Predicted Long-Term Post Closure Effects of Seepage on Creek 661 Table 5.3.3-38: Range of Water Hardness Guidelines Table 5.3.4-2: Exceedances of CCME and BC MOE Sediment Guidelines in Project Area Streams Table 5.3.4-3: Blackwater Stream Sediment Summary Table 5.3.4-4: Lake Sediment Mean Concentrations Table 5.3.7-1: Federal and Provincial Legislation and Policies Related to Wetlands Table 5.3.8-2: Federal and Provincial Legislation and Policies Related to Fish Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.9-72: Magnitude of Residual Effect on Littoral Habitat in Tatelkuz Lake Table 5.4.7-1: Assessment and Permitting Regulations Regarding Amphibians Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.7-13: Threshold(s) for Determining Magnitude of Residual Amphibian Habitat and Population Effects in the RSA Table 5.4.8-1: Assessment and Permitting Regulations Regarding Water Birds Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.8-13: Threshold(s) for Determining Significance of Residual Water Bird Habitat and Population Effects in the RSA Table 5.4.9-1: Regulatory Considerations Regarding Forest and Grassland Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.9-14: Threshold(s) for Determining Significance of Residual Forest and Grassland Birds Habitat and Population Effects in the RSA Table 5.4.10-1: Regulatory Considerations Regarding Moose Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.10-13: Threshold(s) for Determining Magnitude of Residual Moose Habitat and Population Effects in the RSA Table 5.4.11-1: Regulatory Considerations Regarding Caribou Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.11-15: Threshold(s) for Determining Magnitude of

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										Residual Caribou Habitat and Population Effects in the RSA Table 5.4.12-1: Regulatory Considerations Regarding Grizzly Bear Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.12-16: Threshold(s) for Determining Significance of Residual Grizzly Bear Habitat and Population Effects in the RSA Table 5.4.13-1: Regulatory Considerations Regarding Furbearers Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.13-15: Threshold(s) for Determining Significance of Residual Furbearer Habitat, Mortality, and Health in the RSA Table 5.4.14-1: Regulatory Considerations Regarding Bats Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.14-12: Threshold(s) for Determining Significance of Residual Bat Effects Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 5.4.15-11: Threshold(s) for Determining Magnitude of Residual Invertebrate Habitat and Population Effects in the RSA
243	13.1.1	39	Methodology	In assessing significance against these criteria the EIS will, where possible, employ relevant existing regulatory documents, environmental standards, guidelines, or objectives such as prescribed maximum levels of emissions or discharges of specific hazardous agents into the environment. The EIS will contain a section which explains the assumptions, definitions and limits to the criteria mentioned above in order to maintain consistency between the effects on each VC.	2 2-5	B B	4.3 5 to 9	4-16 -	Assessment of Potential Effects on Selected Valued Components Limitations Under each Valued Component: "Introduction" Under each Valued Component: "Limitations"	Table 4.3-6: Criteria Rating for Magnitude for Characterizing Residual Effects Table 4.3-7: Criteria Rating for Geographic Extent for Characterizing Residual Effects Table 5.3.3-2: Mean Stream Surface Water Quality Summary for the Project Table 5.3.3-3: Mean Background Concentration Exceedances Table 5.3.3-4: Lake Water Quality Summary Means Table 5.3.3-7: Comparison of Lorax, BC FWG, and CCME (2012) Total Cadmium Guidelines Table 5.3.3-16: Modelled Pit Lake Results Table 5.3.3-17: Predicted Long-Term Post Closure Effects of Seepage on Creek 661 Table 5.3.3-38: Range of Water Hardness Guidelines Table 5.3.4-2: Exceedances of CCME and BC MOE Sediment Guidelines in Project Area Streams Table 5.3.4-3: Blackwater Stream Sediment Summary Table 5.3.4-4: Lake Sediment Mean Concentrations Table 5.3.7-1: Federal and Provincial Legislation and Policies Related to Wetlands Table 5.3.8-2: Federal and Provincial Legislation and Policies Related to Fish Table 5.3.8-55: Rating Criteria to Assess Significance of

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										Residual Effects to Fish Table 5.3.9-72: Magnitude of Residual Effect on Littoral Habitat in Tatelkuz Lake Table 5.4.7-1: Assessment and Permitting Regulations Regarding Amphibians Table 5.4.7-12: Characterization of Residual Environmental Effects for Amphibians Table 5.4.7-13: Threshold(s) for Determining Magnitude of Residual Amphibian Habitat and Population Effects in the RSA Table 5.4.8-1: Assessment and Permitting Regulations Regarding Water Birds Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.8-13: Threshold(s) for Determining Significance of Residual Water Bird Habitat and Population Effects in the RSA Table 5.4.9-1: Regulatory Considerations Regarding Forest and Grassland Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.9-14: Threshold(s) for Determining Significance of Residual Forest and Grassland Birds Habitat and Population Effects in the RSA Table 5.4.10-1: Regulatory Considerations Regarding Moose Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.10-13: Threshold(s) for Determining Magnitude of Residual Moose Habitat and Population Effects in the RSA Table 5.4.11-1: Regulatory Considerations Regarding Caribou Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.11-15: Threshold(s) for Determining Magnitude of Residual Caribou Habitat and Population Effects in the RSA Table 5.4.12-1: Regulatory Considerations Regarding Grizzly Bear Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.12-16: Threshold(s) for Determining Significance of Residual Grizzly Bear Habitat and Population Effects in the RSA Table 5.4.13-1: Regulatory Considerations Regarding Furbearers Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.13-15: Threshold(s) for Determining Significance of Residual Furbearer Habitat, Mortality, and Health in the RSA Table 5.4.14-1: Regulatory Considerations Regarding Bats Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats

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										Table 5.4.14-12: Threshold(s) for Determining Significance of Residual Bat Effects Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 5.4.15-11: Threshold(s) for Determining Magnitude of Residual Invertebrate Habitat and Population Effects in the RSA
244	13.1.1	39	Methodology	Where significant adverse effects are identified, the EIS will set out the probability (likelihood) that they will occur, and describe the degree of scientific uncertainty related to the data and methods used within the framework of its environmental analysis.	2 2-5	B B	4.3.5.2 5 to 9	4-37 -	Likelihood Under each Valued Component: "Residual Effects and their Significance"	Table 4.3-10: Confidence Table 5.3.2-33: Surface Water Flow Rating Criteria to Evaluate Significance of Adverse Residual Project Effects Table 5.3.8-55: Rating Criteria to Assess Significance of Residual Effects to Fish Table 5.3.8-56: Confidence Table 5.3.9-61: Rating Criteria to Assess Significance of Residual Effects to Fish Habitat Table 5.3.9-62: Confidence Table 5.4.8-12: Characterization of Residual Environmental Effects for Water Birds Table 5.4.9-13: Characterization of Residual Environmental Effects for Forest and Grassland Birds Table 5.4.10-12: Characterization of Residual Environmental Effects for Moose Table 5.4.11-14: Characterization of Residual Environmental Effects for Caribou Table 5.4.12-15: Characterization of Residual Environmental Effects for Grizzly Bear Table 5.4.13-14: Characterization of Residual Environmental Effects for Furbearers Table 5.4.14-11: Characterization of Residual Environmental Effects for Bats Table 5.4.15-10: Characterization of Residual Environmental Effects for Invertebrates Table 7.2.8-12: Characterization of Residual Effects Table 7.2.8-13: Significance of Residual Effects
245	13.1.2	39	Summary of significant adverse environmental effects	In addition, the EIS will summarise the significant adverse environmental effects identified in relation to the categories of environmental effects specified in sections 10.1.2 and 10.1.3: • Changes to components of the environment within federal jurisdiction; • Changes to the environment that would occur on federal or transboundary lands; • Changes to the environment that are directly linked or necessarily incidental to federal decisions;	6	D	19	19-1	Summary of Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component

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										Table 19.3-2: Summary of Mitigation Measures to Minimize Effects to Water Bodies within Tatelkus Lake IR#28 Table 19.3-3: Baseline Distribution of Ecosystems within Land Act Parcel DL 2557 R5C in the vicinity of the Transmission Line Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA Figure 19.3-1: Federal Parcels and Indian Reserves Figure 19.3-2: Tatelkus Lake IR#28 Figure 19.3-3: Land Act Parcel DL 2557 R5C Figure 19.3-4: Federal Parcels and Indian Reserves within the Traditional Territories of LDN, NWFN, SFN, StFN, UFN, NFN, STN, and TNG Figure 19.3-5: Federal Parcel PID015391809
246	13.1.2	39	Summary of significant adverse environmental effects	• Effects of changes to the environment on Aboriginal peoples; and,	6 6	C D	18 19	18-1 19-1	Summary of Aboriginal Groups Information Summary of Residual Effects	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component Table 19.3-4: Summary of Indian Reserves and Other Federal Lands Parcels that overlap Aboriginal Traditional Territory, in the LSA and RSA

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247	13.1.2	39	Summary of significant adverse environmental effects	• Effects of changes to the environment that are directly linked or necessarily incidental to federal decisions;	6	D	19	19-1	Summary of Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1) Table 19.3-1: Summary of LSA and RSA Overlaps with Indian Reserves and Other Federal Lands Parcels for Each Valued Component
SECTION 14 - SUMMARY TABLES										
248	14	39	Summary Tables	The EIS will contain a series of tables summarising the following key information: • Potential environmental effects (section 10.1)…"	6	D	19	19-1	Summary of Residual Effects	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1)
249	14	39	Summary Tables	The EIS will contain a series of tables summarising the following key information: • […] adverse impacts on potential or established Aboriginal and Treaty rights and related interests (section 10.2)…"	6 6	C C	15 18	15-1 18-1	Aboriginal Rights Summary of Aboriginal Groups Information	Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of

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										Potential Effects on Aboriginal Activities and Accommodations Measures
250	14	39	Summary Tables	The EIS will contain a series of tables summarising the following key information: • […] public concerns…	2	A	3.4	3-35	Public and Agency Information Distribution and Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 3.4-1: Summary of Consultations with Tenure Holders Table 3.4-4: Key Comments and Concerns Expressed by the Public and Responses
251	14	39	Summary Tables	• Proposed mitigation measures and commitments (section 11.5) by proponent to address potential impacts on environment, (section 11.1), Aboriginal rights (section 11.2) and public concerns (section 11.3), and Follow-up Program (section 11.4);	2 6 6 6 6	A B C C D	3.4 13 15 18 20	3-35 13-1 15-1 18-1 20-1	Public and Agency Information Distribution and Consultation Follow-up Monitoring and Compliance Reporting Aboriginal Rights Summary of Aboriginal Groups Information Summary of Mitigation Measures	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 3.4-4: Key Comments and Concerns Expressed by the Public and Responses Table 13.5-1: Proposed Project Follow-up Monitoring Program
252	14	39	Summary Tables	• Potential residual and cumulative environmental effects (section 12.1);	6 6	D D	19 21	19-1 21-1	Summary of Residual Effects Conclusion	Table 19.1-1: Summary of Atmospheric and Acoustic Residual Effects Table 19.1-2: Summary of Aquatic Residual Effects Table 19.1-3: Summary of Terrestrial Residual Effects Table 19.1-4: Summary of Economic Residual Effects Table 19.1-5: Summary of Social Residual Effects Table 19.1-6: Summary of Heritage Residual Effects Table 19.1-7: Summary of Health Residual Effects Table 19.1-8: Summary of Federal Requirements(1) Table 21.4-1: Summary of Project Residual and Cumulative Effects and Mitigation Measures Appendix 19A: Cumulative Effects Assessment (AMEC E&I) (App Volume 18)
253	14	39	Summary Tables	• […] outstanding Aboriginal issues (section 12.2) …	6	D	19.2	19-26	Outstanding Aboriginal Issues and Public Concerns	
254	14	39	Summary Tables	• […] outstanding public concerns (section 12.3);	6	D	19.2	19-26	Outstanding Aboriginal Issues and Public Concerns	
255	14	39	Summary Tables	• Comments from the public and responses;	2	A	3.4	3-35	Public and Agency Information Distribution and Consultation	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4)

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										Table 3.4-4: Key Comments and Concerns Expressed by the Public and Responses
256	14	39	Summary Tables	• Comments from Aboriginal groups and individuals and responses; and,	2 6 6 6 6	A C C C C	3.3 15 16 17 18	3-10 15-1 16-1 17-1 18-1	Aboriginal Groups Information Distribution and Consultation Aboriginal Rights Other Aboriginal Interests Aboriginal Groups Consultation Summary of Aboriginal Groups Information	Appendix 3.1.3A: AIR Tracking Tables (AMEC E&I) (App Volume 4) Appendix 3.1.3B: Issues Tracking Tables (AMEC E&I) (App Volume 4) Table 3.3–2: Key Comments and Concerns Expressed by Aboriginal Groups and Responses Table 17.3.1-1: Key Issues, Concerns, and Interests Expressed by Lhoosk'uz Dene Nation and Responses Provided by the Proponent Table 17.3.2-1: Key Issues, Concerns, and Interests Expressed by Nadleh Whut'en First Nation and Responses Provided by the Proponent Table 17.3.3-1: Key Issues, Concerns, and Interests Expressed by Saik'uz First Nation and Responses Provided by the Proponent Table 17.3.4-1: Key Issues, Concerns, and Interests Expressed by Stellat'en First Nation and Responses Provided by the Proponent Table 17.3.5-1: Key Issues, Concerns, and Interests Expressed by Ulkatcho First Nation and Responses Provided by the Proponent Table 17.3.6-1: Key Issues, Concerns, and Interests Expressed by Nazko First Nation and Responses Provided by the Proponent Table 17.3.7-1: Key Issues, Concerns, and Interests Expressed by Skin Tyee Nation and Responses Provided by the Proponent Table 17.3.8-1: Key Issues, Concerns, and Interests Expressed by Tsilhqot'in National Government and Responses Provided by the Proponent Table 17.3.9-1: Key Issues, Concerns, and Interests Expressed by Métis Nation BC and Responses Provided by the Proponent
257	14	39	Summary Tables	• Relationship of the identified valued components (section 7.1.1) to Aboriginal groups' potential or established Aboriginal and Treaty rights and related interests (section 9.2). The summary tables will be used in the EA Report prepared by the Agency. Proponent commitments may be considered for inclusion as conditions in the EA decision statement and/or as part of other compliance and enforcement mechanisms.	6 6 6	C C C	15 16 18	15-1 16-1 18-1	Aboriginal Rights Other Aboriginal Interests Summary of Aboriginal Groups Information	Table 15.2-1: Summary of Lhoosk'uz Dene Rights and Concerns Raised in Relation to the Project Table 15.2-2: Lhoosk'uz Dene Nation – Rights and Effects Tracking Table Table 15.3-1: Summary of Nadleh Whut'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.3-2: Nadleh Whut'en First Nation – Rights and Effects Tracking Table Table 15.4-1: Summary of Saik'uz First Nation Rights and Concerns Raised in Relation to the Project Table 15.4-2: Saik'uz First Nation – Rights and Effects

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										Tracking Table Table 15.5-1 Summary of Stellat'en First Nation Rights and Concerns Raised in Relation to the Project Table 15.5-2: Stellat'en First Nation – Rights and Effects Tracking Table Table 15.6-1: Summary of Ulkatcho First Nation Rights and Concerns Raised in Relation to the Project Table 15.6-2: Ulkatcho First Nation – Rights and Effects Tracking Table Table 15.7-1: Summary of Nazko First Nation Rights and Concerns Raised in Relation to Project Table 15.7-2: Nazko First Nation – Rights and Effects Tracking Table Table 18.2-1: Lhoosk'uz Dene Nation (LDN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.3-1: Nadleh Whut'en First Nation – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.4-1: Saik'uz First Nation (SFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.5-1: Stellat'en First Nation (StFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.6-1: Ulkatcho First Nation (UFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.7-1: Nazko First Nation (NFN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.8-1: Skin Tyee First Nation (STN) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures Table 18.10-1: Métis Nation BC (MNBC) – Summary of Potential Effects on Aboriginal Activities and Accommodations Measures
SECTION 15 - BENEFITS TO CANADIANS										
258	15.1	40	Changes to the project since initially proposed	The EIS will include a summary of the changes that have been made to the project since originally proposed, including the benefits of these changes to the environment, Aboriginal peoples, and the public.	1 1 1	A A A	2.2.2.2 2.5 2.8	2.2-12 2.5-1 2.8-1	Changes from the Initial Project Description Alternative Means of Undertaking the Proposed Project Proposed Project Benefits	Table 2.2.2-1: Key Changes Between the Initial Project Description and the EA Project Description

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259	15.2	40	Changes to the project since initially proposed	The EIS will include a section describing the predicted environmental, economic and social benefits of the project. This information will be considered in assessing the justifiability of the significant adverse environmental effects, if necessary.	1	A	2.8	2.8-1	Proposed Project Benefits	
SECTION 16 - MONITORING PROGRAM AND ENVIRONMENTAL MANAGEMENT PLANS										
260	16	40	Monitoring Program and Environmental Management Plans	The goal of a monitoring program is to ensure that proper measures and controls are in place in order to decrease the potential for environmental degradation during all phases of project development, and to provide clearly defined action plans and emergency response procedures to account for human and environmental health and safety. In the EIS, the proponent will describe the monitoring activities at all stages of the project, the proponent's proposed commitment to implementing these activities and the resources provided for this purpose. The program will need to provide the key information such as contacts, protocols, measured parameters, deadlines, intervention in case of non-compliance of legal requirements and production of monitoring reports.	1 6 6	A B B	2.6 12 13	2.6-1 12.1-1 13-1	Reclamation and Closure Plan Summary of Proposed Environmental and Operational Management Plans Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
261	16	40	Monitoring Program and Environmental Management Plans	The finalization of a detailed monitoring program will occur through consultation with federal and provincial government agencies, Aboriginal groups, the public and other stakeholders. This may occur after the environmental assessment but will be consistent with the information presented in the EIS. Pertinent legislation, regulations, industry standards, documents and legislative guides will be used in the development of the monitoring program.	1 2 6	A A B	2.6 3 13	2.6-1 3-1 13-1	Reclamation and Closure Plan Assessment Process Follow-up Monitoring and Compliance Reporting	Table 13.2-1: Preliminary List of Anticipated Compliance Monitoring and Reporting Obligations Table 13.3-1: Reclamation Performance Standards and Objectives during Construction, Operations, Closure, and Post-Closure Phases Table 13.5-1: Proposed Project Follow-up Monitoring Program
262	16	40	Monitoring Program and Environmental Management Plans	Environmental management plans (EMPs) are an example of a tool that can be used to ensure that proper measures and controls are in place in order to decrease the potential for environmental degradation during all phases of project development, and to provide clearly defined action plans and emergency response procedures to account for human and environmental health and safety. The EMPs will serve to provide guidance on specific actions and activities that will be implemented to decrease the potential for environmental degradation during construction and	6	B	12	12.1-1	Summary of Proposed Environmental and Operational Management Plans	

Federal Environmental Impact Statement (EIS) Guideline					Environmental Impact Statement					
ID	**Section**	**Page**	**Federal EIS Guideline Reference Title**	**Federal EIS Guideline Requirement Description (19 February 2013)**	**Volume**	**Part**	**Section**	**Page**	**Section Title**	**Other Documentation (Tables, Figures, Appendices etc.)**
				operation, and to clearly define the proponent's ongoing environmental commitment.						