



Coastal GasLink
Pipeline Project

SEEMP Status Report No. 1

December 2018 to June 2019

CGL4703-CGP-SE-RPT-0001

July 15, 2019

Revision 0

EXECUTIVE SUMMARY

On October 23, 2014, the British Columbia (BC) Environmental Assessment Office (EAO) issued an Environmental Assessment Certificate (EAC) for the Coastal GasLink Pipeline Project (the Project). The EAC was issued with a number of conditions resulting from the EAO's assessment of environmental, social, economic, heritage and health components deemed pertinent to the Project. The EAC was amended on May 15, 2018 to add an alternate route option for a 42-km portion of the Certified Pipeline Corridor.

The EAC for the Project includes 33 conditions to address interests and concerns of Indigenous groups, local communities and resource management agencies. Condition #24 describes the requirement to develop a socio-economic effects management plan.

The Socio-economic Effects Management Plan (SEEMP) is a consolidated, standalone management plan that identifies Coastal GasLink's approach to implementing mitigation during construction to avoid or reduce potential adverse socio-economic effects on regional and community infrastructure and services. These potential effects are presented in the Project's Application for an EAC (Application). The SEEMP also outlines a process for how Coastal GasLink will monitor and report on the effectiveness of the mitigation. Coastal GasLink will use the SEEMP Adaptive Management Process (SEEMP Section 6.3) in situations where monitoring results indicate that outcomes are not as predicted.

TABLE OF CONTENTS

EXECUTIVE SUMMARY

1.0 INTRODUCTION 1

2.0 PROJECT UPDATE 3

2.1 Project Update: Construction3

2.1.1 Section 8.....4

2.1.2 Sections 1 and 24

2.1.3 Sections 3 and 45

2.1.4 Section 5.....5

2.1.5 Sections 6 and 75

3.0 ENGAGEMENT 7

3.1 Project Engagement7

3.2 SEEMP Development Engagement8

3.3 SEEMP Implementation Engagement8

3.3.1 SEEMP Contacts.....8

4.0 POTENTIAL ADVERSE EFFECTS 11

4.1 Economy: Contracts and Procurement Expenditures11

4.1.1 Activities11

4.1.2 Mitigation Effectiveness12

4.2 Economy: Community Economic Resilience13

4.2.1 Activities13

4.2.2 Mitigation Effectiveness13

4.3 Employment and Labour Force: Employment.....13

4.3.1 Activities13

4.3.2 Mitigation Effectiveness14

4.4 Employment and Labour Force: Training Opportunities.....15

4.4.1 Activities15

4.4.2 Mitigation Effectiveness16

4.5 Community Utilities and Services: Emergency Services16

4.5.1 Activities16

4.5.2 Mitigation Effectiveness17

4.6 Community Utilities and Services: Health Care Services17

4.6.1 Activities17

4.6.2 Project Injuries18

4.6.3 Mitigation Effectiveness19

4.7 Community Utilities and Services: Social Services.....19

4.7.1 Activities19

4.7.2 Mitigation Effectiveness20

4.8	Community Utilities and Services: Waste Management Facilities.....	20
4.8.1	Activities	20
4.8.2	Mitigation Effectiveness	21
4.9	Community Utilities and Services: Recreational Facilities	21
4.9.1	Activities	21
4.9.2	Mitigation Effectiveness	21
4.10	Community Utilities and Services: Education Services	21
4.10.1	Activities	21
4.10.2	Mitigation Effectiveness	21
4.11	Community Utilities and Services: Government Services.....	22
4.11.1	Activities	22
4.11.2	Mitigation Effectiveness	22
4.12	Community Utilities and Services: Housing and Commercial Accommodation.....	22
4.12.1	Activities	22
4.12.2	Mitigation Effectiveness	22
4.13	Transportation Infrastructure and Services: Traffic.....	23
4.13.1	Activities	23
4.13.2	Mitigation Effectiveness	23
4.14	Transportation Infrastructure and Services: Navigability of Waterways	24
4.14.1	Activities	24
4.14.2	Mitigation Effectiveness	24
5.0	ADAPTIVE MANAGEMENT	27
6.0	CLOSING	28

LIST OF APPENDICES

Appendix A SEEMP Mitigation Status Table

LIST OF FIGURES

Figure 2-1: Route Map..... 3

LIST OF TABLES

Table 3-1: SEEMP Contacts 9
Table 4-1: Indigenous and Local Contract Award Values to June 2019 12
Table 4-2: Reported Field Labour Hours: December 2018 to May 2019..... 14
Table 4-3: Incidents Requiring Health Care 19

1.0 INTRODUCTION

The Socio-economic Effects Management Plan (SEEMP) describes the plan for implementing mitigation and the approach to monitoring and reporting on the implementation and effectiveness of mitigation on community-level infrastructure and services during the construction phase of the Project. Mitigation effectiveness in avoiding or reducing potential adverse effects is determined in consideration of those effects identified in the SEEMP. As outlined in SEEMP Section 7.0, Coastal GasLink will submit SEEMP status reports directly to the Environmental Assessment Office (EAO), the Ministry of Municipal Affairs and Housing (MMAH) and all SEEMP contacts during the construction phase of the Project. SEEMP status reports will also be publicly available semi-annually on the Project's website with a final report submitted two years after construction is completed.

The following report includes information on the status of SEEMP implementation during construction from December 2018 to June 2019.

2.0 PROJECT UPDATE

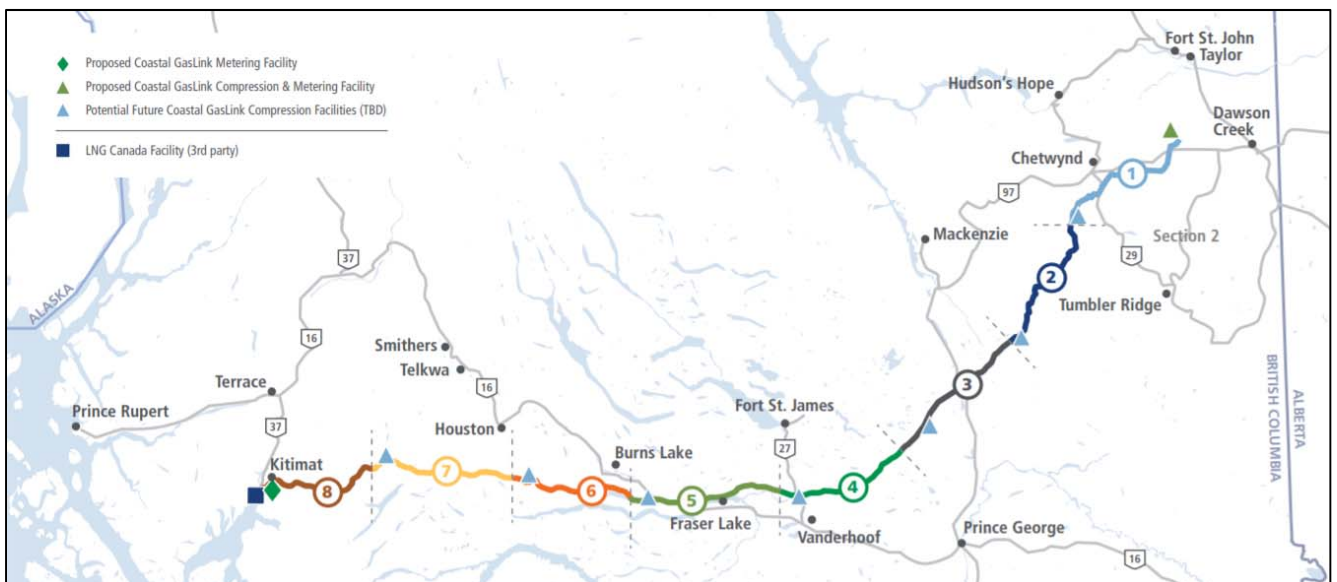
Coastal GasLink is a 670-km pipeline designed to transport natural gas from the Montney gas-producing region near Dawson Creek, BC to the LNG Canada facility in Kitimat, BC. The pipeline will have an initial capacity of approximately 2.1 billion cubic feet per day (Bcf/day) with the potential for expansion of up to approximately 5 Bcf/day.

On October 2, 2018, TC Energy Corporation (formerly TransCanada Pipelines Ltd.) announced that it will proceed with construction of Coastal GasLink after a decision to sanction the LNG Canada natural gas liquefaction facility in Kitimat, BC was announced by the joint venture participants of LNG Canada. LNG Canada is a consortium comprised of Shell, PETRONAS, PetroChina, Mitsubishi Corporation and KOGAS (the LNG Canada Participants). Construction activities began on Coastal GasLink in December 2018 with a planned in-service date in 2023.

2.1 PROJECT UPDATE: CONSTRUCTION

The 670-km project is divided into eight construction sections. Construction is designed to enable crews to work in both summer and winter months. Construction activities for Coastal GasLink commenced in December 2018. Figure 2-1 shows the route and construction sections.

Figure 2-1: Route Map



2.1.1 Section 8

Clearing and road maintenance work commenced along the route within Section 8. Continuous work has taken place in the Kitimat area along the right-of-way adjacent to both the North Hirsch and South Hirsch Forest Service Roads (FSR) with 114.04 hectares cleared as of June 30, 2019. The Hirsch Roads continue to undergo road improvements, maintenance and bridge installations, along with the Kitimat FSR. Imperative for access, the Hirsch Roads will be a conduit to the western portion of Section 8, with the Kitimat FSR being used for cable crane construction across the Coast Mountains. Along the upper portion of the Kitimat FSR, a temporary workforce accommodation area has been established to house workers for additional clearing and road maintenance activity along the right-of-way. Clearing has been completed at the future Kitimat Meter Station site. Located 8 km from the LNG Canada Facility site, this area will temporarily house offices for the Prime Contractor Macro Spiecapag Joint Venture (MSJV) and act as a lay down area throughout pipeline construction.

In June 2019, grading work commenced through the western portion of Section 8, with a focus between Kitimat and the cable crane construction access across the Coast Mountains. Along the eastern side, approximately 60 km west of Houston, 45.11 hectares have been cleared to prepare for workforce accommodation location 9A, as well as critical access road RW-300 connecting to the project right-of-way near Clore River as of July 1, 2019. Site 9A will provide workforce accommodation for employees along the eastern portion of Section 8 throughout pipeline construction. Along with clearing activities, access road improvements and maintenance as well as bridge installations have been ongoing since early Q1 2019 on the Morice West and Shea FSRs. Completion of this work is mandatory to ensure safe usage of the roads after spring break-up.

2.1.2 Sections 1 and 2

In Q1 2019, early work activities took place to prepare worker accommodation areas and multi-use sites in Sections 1 and 2. Clearing and brushing for access roads and work site locations carried through to early April, as weather permitted, up until spring break-up. In response to a request from the Ministry of Forests, Lands and Natural Resource Operations and Rural Developments (FLNRORD), the Sukunka multi-use site underwent additional archaeological clearance. This was completed by qualified professional consulting archaeologists and involved field work that included participation from interested local Indigenous communities. Clearing of this site was completed in early May, as it is the hub for the 2019 right-of-way clearing program.

Workforce accommodation site preparation including civil works and trailer set up was delayed as a result of the caribou critical timing window and is expected to commence in July 2019. In Q3 2019, it is anticipated that all other clearing and access development in Sections 1 and 2 will resume.

2.1.3 Sections 3 and 4

In Q1 2019, early work activities took place to prepare the Parsnip workforce accommodation site in advance of the planned August 2019 right-of-way clearing activities. The site has been completed and awaits final certification prior to be put in operation. In Q3 2019, it is anticipated that other ancillary sites, access development, and clearing will begin.

2.1.4 Section 5

In June 2019, Coastal GasLink and Prime Contractor MSJV kicked off preparation and planning for early works in Section 5, from approximately 14 km north of Vanderhoof to 30 km east of Burns Lake. MSJV and Coastal GasLink have completed site reconnaissance activities to verify suitability of construction access. Environmental field programs are currently ongoing to verify and classify watercourse features along the approved construction footprint. Coastal GasLink and MSJV anticipate starting preparation of the Lejac multi-use site and pipeline clearing in late summer of 2019.

2.1.5 Sections 6 and 7

Beginning in June 2019, Coastal GasLink and Prime Contractor Pacific Atlantic Pipeline Construction (PAPC) conducted early ground reconnaissance on Coastal GasLink pipeline Sections 6 and 7, starting approximately 30 km east of Burns Lake and ending approximately 60 km west of Houston. Field environmental programs also kicked off in late June in order to identify biophysical features along the approved construction footprint. Coastal GasLink and PAPC are planning to begin limited works in late 2019, starting with stockpile and multi-use site preparations as required to support clearing activities in January 2020.

3.0 ENGAGEMENT

Coastal GasLink's approach to engagement is grounded in TC Energy's values, policies and guiding principles. Coastal GasLink strives to engage early and often. Engaging means listening, providing accurate information, and responding to community interests in a prompt and consistent manner.

Coastal GasLink will continue to build on TC Energy's 65+ years of experience working with communities, Indigenous groups and landowners near its projects. Coastal GasLink understands the importance of sharing information and earning the support and trust of local communities. Corporate values of integrity, collaboration, responsibility and safety guide Coastal GasLink's commitment to engagement.

Coastal GasLink will engage regularly and openly, as described in SEEMP Section 3.3, with those affected by the Project. SEEMP engagement activities are informed by the frameworks presented in the Public Consultation Plan and the Aboriginal Consultation Plan. These plans were designed to communicate information and timelines for the Project and address how Coastal GasLink proposes to work with affected Indigenous groups and stakeholders. EAC Condition #28 also references Indigenous group engagement activities such as providing construction schedules. Together the SEEMP, Public Consultation Plan, Aboriginal Consultation Plan and EAC Condition #28 provide the framework for information sharing and two-way engagement for the Project.

3.1 PROJECT ENGAGEMENT

Since 2013, Coastal GasLink has undertaken over 15,000 engagement touchpoints including:

- holding over 1,900 formal meetings with affected Indigenous communities and landowners
- having more than 300 formal meetings with local governments and key community stakeholders
- hosting more than 100 local government presentations and public information sessions
- participating in over 100 conferences and public events
- signing community and project agreements with all elected Indigenous groups along the pipeline route (totaling 20 across the province)
- over 350,000 hours of Indigenous community participation in field studies
- holding 23 Economic Summits that facilitated interaction to explore contracting and employment opportunities between Indigenous and local communities and Coastal GasLink Prime Contractors

3.2 SEEMP DEVELOPMENT ENGAGEMENT

In 2015, engagement began on the development of Coastal GasLink's SEEMP. Coastal GasLink engaged with 56 organizations including 21 Indigenous communities, 18 local governments and 17 Provincial agencies. Over 440 communication touchpoints were achieved during the SEEMP development period and over 330 comments were addressed. The SEEMP was submitted to the EAO in early 2016 and approved on May 16, 2016.

3.3 SEEMP IMPLEMENTATION ENGAGEMENT

When clearing activities and preliminary construction work commenced, Coastal GasLink confirmed 53 SEEMP contacts and requested initial meetings to discuss SEEMP implementation. Between December 2018 and June 2019, Coastal GasLink conducted 29 SEEMP meetings. The information presented in this status report considers feedback and discussions with SEEMP contacts.

Based on the monitoring frequency presented in the SEEMP Appendix D (Effectiveness Monitoring Table), Coastal GasLink is engaging with local government, provincial agencies and Indigenous groups affected by project construction on a semi-annual basis during construction to collect information for reporting. In addition, Coastal GasLink will continue to be proactive and responsive throughout construction for engagement opportunities with affected Indigenous groups and stakeholders. SEEMP engagement activities focus on two-way communication that provides opportunities to strengthen relationships, share information, and monitor mitigation implementation.

3.3.1 SEEMP Contacts

SEEMP implementation engagement contacts include 19 Indigenous communities, 18 local governments and 16 provincial agencies. The 53 SEEMP contacts are listed in Table 3-1.

Table 3-1: SEEMP Contacts

Provincial Agencies	Indigenous Communities	Local Government
BC Emergency Health Services BC Environmental Assessment Office BC Oil and Gas Commission Emergency Management BC Northern Health Ministry of Indigenous Relations and Reconciliation Ministry of Education – Capital Management Branch Ministry of Advanced Education, Skills and Training Ministry of Municipal Affairs and Housing – Planning and Land Use Management (PLUM) Branch Ministry of Municipal Affairs and Housing – Office of Housing and Construction Standards Ministry of Health – Health Protection Integration and Engagement Ministry of Forests, Land, Natural Resource Operations & Rural Development Ministry of Public Safety and Solicitor General – Policing & Security Branch Ministry of Public Safety and Solicitor General – Community Safety and Crime Prevention Branch Ministry of Social Development and Poverty Reduction Ministry of Transportation and Infrastructure	Blueberry River First Nations Dark House Doig River First Nation Haisla Nation Kitselas First Nation Lheidli-T’enneh First Nation McLeod Lake Indian Band Nadleh Whut’en First Nation Nak’azdli Band Nee-Tahi-Buhn Band Office of the Wet’suwet’en Hereditary Chiefs Saik’uz First Nation Saulneau First Nations Skin Tyee Nation (Skin Tyee First Nation) Stellat’en First Nation Ts’il Kaz Koh First Nation (Burns Lake Band) West Moberly First Nations Wet’suwet’en First Nation Yekooche First Nation	City of Terrace District of Kitimat Regional District of Kitimat-Stikine Regional District of Bulkley-Nechako District of Vanderhoof District of Fort St. James Village of Fraser Lake Village of Burns Lake Town of Smithers District of Houston Fraser Fort George Regional District District of Mackenzie District of Chetwynd City of Prince George District of Tumbler Ridge City of Dawson Creek City of Fort St. John Peace River Regional District

4.0 POTENTIAL ADVERSE EFFECTS

The potential adverse effects of the Project were assessed as part of the Application. The baseline information was presented in the Application's Social Technical Report (Appendix 2M) and the Economic Technical Report (Appendix 2N).

As only preliminary construction activities have begun in five sections, many communities have not experienced any noticeable effects at this time.

4.1 ECONOMY: CONTRACTS AND PROCUREMENT EXPENDITURES

A potential adverse effect identified in this area includes:

- limited participation in contract opportunities

4.1.1 Activities

- Coastal GasLink has implemented an Indigenous and Local Contracting and Employment (ILCE) Program intended to maximize productive contracting and employment opportunities for Indigenous and local communities and businesses through the Prime Contractors and subcontractors or contracts directly with the Project.
- During this reporting period, Coastal GasLink's ILCE program hosted 23 Economic Summits in communities along the project route. This included 18 Indigenous Summits and five Regional Economic Summits open to the public (Terrace, Houston, Prince George, Dawson Creek, Fort St. John). The purpose of the Economic Summits was to help connect local prospective employees and businesses to employment and contracting opportunities. The Project's four Prime Contractors (Surerus Murphy Joint Venture [SMJV], SA Energy Group, MSJV and P APC) and subcontractors, attended the Economic Summits to provide information about the types of contracts needed for construction along the project route.
- Coastal GasLink has memberships in 11 chambers of commerce across northern BC, and a corporate membership in the BC Chamber of Commerce through TC Energy.
- Coastal GasLink is continuing to work closely with chambers of commerce and local economic development stakeholders to build its local vendor databases and information. Prime Contractors on Coastal GasLink are obligated to make opportunities available wherever possible to local and Indigenous individuals and businesses.
- In late 2018, Coastal GasLink met with all chambers of commerce along the route, along with other construction-related and economic development groups across northern BC, to provide an update on the Coastal GasLink vendor registry and the Solicitation of Interest (SOI) sent to northern BC businesses to:

- seek detailed information about interested local vendors
- to ensure businesses had a chance to participate
- The Prime Contractors have participated in engagement activities with Coastal GasLink in communities along the project route to continue to fulfill the commitment to hire locally first. Some examples of this include:
 - MSJV set up a booth in a local mall in Kitimat, BC
 - P APC attended a local trade show in the Burns Lake area
 - Prime Contractors attended a WorkBC career fair in Vanderhoof, BC in April 2019
 - P APC presented to the Smithers Chamber of Commerce in May 2019
- All four Prime Contractors have requirements to submit monthly Indigenous, diverse and local spend reports to Coastal GasLink.

Table 4-1 shows the available data on Indigenous and local contract award values to June 2019.

Table 4-1: Indigenous and Local Contract Award Values to June 2019

Labour Group	Contract Award Value	Percentage of Total Contract Award Value ¹
Local (BC)	\$725 million	21%
Indigenous ^{2,3}	\$720 million	21%
Notes:		
1 The percentage is based on Coastal GasLink's awarded pipeline construction contracts of \$3.43 billion.		
2 The Indigenous category is a subset of the Local (BC) category; therefore, it is important to not "double-count" award values between these two categories.		
3 In many cases the Indigenous category includes contract awards made to local Indigenous and local non-Indigenous businesses that are working together on Coastal GasLink.		

4.1.2 Mitigation Effectiveness

Feedback provided to Coastal GasLink by participants of the Economic Summit events indicated that the events were beneficial in connecting businesses and people interested in participating on the Project through over 3,000 one-on-one meetings that were held as a result. Coastal GasLink's key contractor representatives have also spoken publicly about how they appreciated the opportunity to meet with communities.

As project construction continues, the contracting and employment opportunities for Indigenous participation on the Project will increase. Coastal GasLink anticipates additional contract and employment opportunities for Indigenous and local BC communities during pipeline construction and will continuously monitor and report on this semi-annually through SEEMP status reports.

4.2 ECONOMY: COMMUNITY ECONOMIC RESILIENCE

A potential adverse effect identified in this area includes:

- alteration of existing community economic patterns

4.2.1 Activities

- Coastal GasLink is ensuring ongoing communication with local economic development organizations specifically around the project schedule and communicating the short-term nature of project construction activities in order to manage expectations over the duration of construction. So far, there have been no reported noticeable effects due to project construction on community economic patterns from SEEMP contacts.

4.2.2 Mitigation Effectiveness

There have been no potential residual adverse effects identified in this reporting period. However, concerns were raised regarding the potential of the local workforce leaving current positions for new positions available on the Project. Coastal GasLink will continue to work with local community and economic development organizations to monitor community economic patterns as the Project progresses.

4.3 EMPLOYMENT AND LABOUR FORCE: EMPLOYMENT

A potential adverse effect identified in this area include:

- skilled labour shortage

4.3.1 Activities

- Coastal GasLink is engaging with economic development organizations and post-secondary institutions along the route to communicate project schedules as well as understand existing employment conditions in local communities and the broader region.
- Coastal GasLink has implemented an ILCE Program intended to maximize contracting and employment opportunities for Indigenous and local communities and businesses through the Prime Contractors and subcontractors or contracts directly with the Project.
- During this reporting period, Coastal GasLink's ILCE program hosted 23 Economic Summits in communities along the project route. This included 18 Indigenous Summits, and five Regional Economic Summits open to the public (Terrace, Houston, Prince George, Dawson Creek, Fort St. John). The purpose of the Economic Summits was to help connect local prospective employees and businesses to employment and contracting opportunities. The Project's four Prime Contractors (SMJV, SA Energy Group, MSJV and PAPC) and subcontractors

attended the Economic Summits to provide information about the types of contracts needed for construction along the project route.

- The Prime Contractors have participated in engagement activities with Coastal GasLink in communities along the project route to continue to fulfill the commitment to hire locally first. Some examples of this include:
 - MSJV set up a booth in a local mall in Kitimat, BC
 - P APC attended a local trade show in the Burns Lake area
 - Prime Contractors attended a WorkBC career fair in Vanderhoof, BC in April 2019
 - P APC presented to the Smithers Chamber of Commerce in May 2019
- All four Prime Contractors have requirements to submit monthly Indigenous, diverse and local employment reports to Coastal GasLink.

Table 4-2 shows the Indigenous, local and women recorded field labour hours from December 2018 to May 2019.

Table 4-2: Reported Field Labour Hours: December 2018 to May 2019¹

Labour Group ²	Reported Hours	Percentage of Total Reported Field Labour Hours ³
Indigenous	143,702	24%
Local (BC)	112,087	19%
Women	20,669	4%
Notes:		
<p>1 Caveats to data collection results:</p> <ul style="list-style-type: none"> • Minimal construction work has taken place in only certain locations along the route thus far. Contractors are in the process of hiring subcontractors and building out teams. • Several noted reporting discrepancies occurred with subcontractors new to the system. These reporting discrepancies have been identified, addressed and will be amalgamated into the next reporting cycle. • Reported hours may have overlaps as individuals may be represented in more than one labour group. Therefore, numbers should be looked at as standalone and not rolled into a cumulative value. <p>2 Labour group affiliation is voluntarily self-disclosed.</p> <p>3 December 2018 to May 2019 had a cumulative total of 589,942 field labour hours reported by Prime Contractors and subcontractors.</p>		

4.3.2 Mitigation Effectiveness

Through discussions with local governments and Indigenous groups along the project route, Coastal GasLink’s efforts to work with local organizations and municipalities to ensure skilled labour is deemed effective at this time. The main priority of the Project is to hire locally first. Coastal GasLink will continue to monitor and report on this semi-annually in SEEMP status reports.

4.4 EMPLOYMENT AND LABOUR FORCE: TRAINING OPPORTUNITIES

A potential adverse effect identified in this area includes:

- lack of time to train local workers for skilled positions

4.4.1 Activities

- Coastal GasLink has partnered with Outland Camps to deliver the Outland Youth Employment Program (OYEP) to 20 Indigenous communities across northwest and northeast BC. OYEP is a six-week work, training and education experience in a supportive space that replicates various work environments. The program includes a combination of core in-camp training, personal development planning, natural resource-based curriculum, job-shadow experiences and employer-employee connections. The program prepares youth for a successful transition to employment and post-secondary education.
- In May 2019, Coastal GasLink supported a community-led Basic Security Officer training program at Saulteau First Nations in northeast BC. The one-week program provided training for 16 students, assisted them in completing their criminal record checks and provided funding for their security license fees.
- Coastal GasLink has shared information with all Indigenous communities and post-secondary institutions along the project route about TC Energy's Build Strong scholarship program available across Canada. The scholarship application review process started in June 2019 to identify successful applicants.
- Since 2014, Coastal GasLink has been partnering with local education institutions to not only help provide students with more accessible program opportunities, but also to help students navigate the next steps and requirements should they choose to pursue a career in the pipeline industry.

Prior to the Final Investment Decision (FID), Coastal GasLink and TC Energy spent over \$3 million on investments in skills training and long-term education initiatives in northern BC. For example, Coastal GasLink's Pathway to Pipeline Readiness Program in northern BC is focused on helping build northern BC's skilled labour force and aims to grow workers' transferable skills. The partnerships include funding for program development, equipment purchases, and targeted bursaries for initiatives in northern BC that align with natural gas pipeline construction and operations, and the LNG industry.

These partnerships have resulted in over 140 skilled trades bursary awards, and over 500 sponsored safety and workforce training opportunities at three post-secondary institutions in northern BC (Northwest Community College, College of New Caledonia, Northern Lights College).

- Coastal GasLink's Pathway to Pipeline Readiness Program has partnerships with Aboriginal Skills and Employment Training (ASET) agreement holders with over

100 course seats sponsored in trades and workforce essential skills programs. These programs include:

- Prince George Nechako Aboriginal Employment & Training Association (PGNAETA) Trades Access Program
- Tribal Resources Investment Corporation (TRICORP) Training to Employment Program
- Coastal GasLink continues to engage with Prime Contractors, unions, ASETs, training institutions, colleges and other potential partners to provide education and training opportunities in accordance with the priorities of the communities and the needs of the Project to maximize opportunities and collaboration.
- Coastal GasLink's Education Legacy Program invests in education initiatives that build long term community capacity in northern BC. Current investments include:
 - Breakfast Club of Canada in northern BC schools to provide healthy breakfasts for elementary school students
 - UNBC Sustainable Communities Demonstration Project
 - over 30 UNBC Academic Scholarship awards to Indigenous students in northern BC

4.4.2 Mitigation Effectiveness

Based on feedback from SEEMP contacts during the reporting period, implemented activities have been deemed effective. Coastal GasLink has communicated its emphasis on hiring locally first and its dedication in assuring the local workforce is provided opportunities to obtain all necessary training/education required for positions on the Project.

4.5 COMMUNITY UTILITIES AND SERVICES: EMERGENCY SERVICES

A potential adverse effect identified in this area includes:

- increased demand on local emergency services

4.5.1 Activities

- Coastal GasLink is working with BC Emergency Health Services and Emergency Management BC to ensure adequate local health care and emergency response professionals are maintained in the local communities during construction.
- Coastal GasLink is communicating with local emergency service providers, fire departments and RCMP detachments to provide project schedules and identify issues.
- The Prime Contractors responsible for the current operating workforce accommodations have submitted preliminary site-specific safety plans.

- Coastal GasLink implemented the Extraordinary Legacy Initiative (ELI) program, an internal program aimed to empower all project personnel to create an extraordinary legacy of safety and respect for all people, communities and the environment. To date, approximately 400 employees and contractors have attended leadership workshop sessions as part of the program.
- Invitations to engage on SEEMP implementation were sent to 14 local fire departments across northern BC, as well as Emergency Response Coordinators for the four regional districts.
- Coastal GasLink committed to follow up with the Terrace Fire Department for an informational tour.

4.5.2 Mitigation Effectiveness

There have been no potential residual adverse effects identified in this reporting period regarding an increased demand on emergency services. However, Coastal GasLink understands that while there is a general emphasis on hiring local for emergency service positions, this also has the potential to impact local service providers regarding hard-to-recruit and hard-to-retain professionals in the area.

Coastal GasLink will continue to connect with local emergency management facilities to ensure capacity requirements are fulfilled and that all parties have been previously informed about construction activity timelines and peak workforce durations. If additional resources are required, Coastal GasLink will work with contracted service providers to avoid local service gaps.

4.6 COMMUNITY UTILITIES AND SERVICES: HEALTH CARE SERVICES

A potential adverse effect identified in this area includes:

- increased demand on health care services

4.6.1 Activities

- Coastal GasLink is working with BC Emergency Health Services and Emergency Management BC to ensure adequate local health care and emergency response professionals are maintained in the local communities during construction.
- The Coastal GasLink Health and Safety team implemented program enhancements including the following guidelines/training:
 - Winter Footwear Safe Work Guideline
 - Hand Protection Safe Work Guideline
 - Driving Safe Work Guidelines
 - In-Vehicle Monitoring Systems

- Heavy Equipment – Camera and Radar Guideline
- “Where Do I Stand” Operator and Spotter Training

These safety guidelines and training opportunities are adopted by all Prime Contractors and subcontractors on the Project and is in addition to all contractor specific health and safety guidelines.

- Contractors are conducting daily health and safety meetings on site with workers before each workday begins.
- The Project is supporting the development of site-specific health and safety plans in coordination with Northern Health and the Ministry of Environment for all workforce accommodation locations from each Prime Contractor. These plans are expected to be complete in the latter part of 2019.
- Coastal GasLink is working with an in-house medical team provided by International SOS (ISOS) to manage each workforce accommodation site. Currently, ISOS is on site at the Sitka Lodge location in Kitimat as well as the Hunter Creek workforce accommodation on the Upper Kitimat FSR / North Kitimat Road.
- Safety Alerts were sent out to all employees to provide proactive awareness as well as lessons learned information on how to minimize incidents from occurring in the future. So far in 2019, there have been six safety alerts issued based on the following occurred and/or potential incidents:
 - cut hand
 - bear awareness
 - fall injury
 - motor vehicle operation (three)
- Coastal GasLink implemented the ELI program, an internal program aimed to empower all project personnel to create an extraordinary legacy of safety and respect for all people, communities and the environment. To date, approximately 400 employees and contractors have attended leadership workshop sessions as part of the program.
- Coastal GasLink had formal meetings with Northern Health to provide project information and engage on health care services.

4.6.2 Project Injuries

Since December 2018, there have been four minor personal injuries reported, as shown in Table 4-3.

Table 4-3: Incidents Requiring Health Care

Date	Incident Description	Transfer Required?	Treatment Location	Treatment Duration
January 2019	Worker slips on equipment which results in an injury to their right thumb	Yes	Prince George local hospital	3 stitches required ~1.5 hours in facility
March 2019	Worker fell from first step of vehicle ladder, landing on their left shoulder, resulting in a dislocation	Yes	Houston local hospital	~2 hours in facility
April 2019	Worker unpacks snowshoes and sustains minor cut to index finger	Yes	Prince George local hospital	~1 hour in facility
June 2019	Worker sustained sprained ankle (further details still under investigation)	Yes	Chetwynd Hospital	~2 hours in facility for X-ray

4.6.3 Mitigation Effectiveness

No issues have been identified with regards to the effectiveness of the mitigation for potential impacts to emergency and non-emergency healthcare services. Therefore, given that the incidents reported from December 2018 until June 2019 had a negligible impact on local healthcare services and that no issues were identified, Coastal GasLink considers the mitigation implemented as effective with no changes required.

4.7 COMMUNITY UTILITIES AND SERVICES: SOCIAL SERVICES

A potential adverse effect identified in this area includes:

- increased demand on community social services

4.7.1 Activities

- Coastal GasLink has ensured that the Prime Contractors are aware of expectations around on-site services for residents within the workforce accommodation sites including medical support, help lines and online services.
- From December 2018 to June 2019, two workforce accommodation sites were operational (Sitka Lodge and Hunter Creek). Coastal GasLink has confirmed that medical support, helplines and online services are available for these residents.
- Coastal GasLink implemented the ELI program, an internal program aimed to empower all project personnel to create an extraordinary legacy of safety and respect for all people, communities and the environment. To date, approximately 400 employees and contractors have attended leadership workshop sessions as part of the program.

4.7.2 Mitigation Effectiveness

Based on feedback from SEEMP contacts, there have been no potential residual adverse effects identified in this reporting period on the potential impact to community social services. The mitigation activities are deemed effective at this time.

4.8 COMMUNITY UTILITIES AND SERVICES: WASTE MANAGEMENT FACILITIES

A potential adverse effect identified in this area includes:

- increase in waste flow to regional landfill and transfer station sites, and wastewater treatment facilities

4.8.1 Activities

- Coastal GasLink is working with the workforce accommodation contractors to source on-site waste management capabilities for several proposed locations. Decisions on waste management are based on discussions with local governments to determine capacity and desire to accept solid or liquid waste in their facilities.
- In 2018, Coastal GasLink contacted all four Regional Districts to discuss solid waste management, and provided estimated volumes, and to ensure that Coastal GasLink understood capacity and waste streams accepted. Coastal GasLink is continuing to work with those that do have capacity for short-term waste management to use the local facilities and will adhere to local procedures and fees which would provide short-term additional revenue for local community infrastructure.
- Coastal GasLink contacted relevant local governments near workforce accommodations sites in 2018 to discuss liquid waste management. In 2019, Coastal GasLink continued discussions with these local governments, and engaged an additional two municipalities. Coastal GasLink is continuing to work with local governments on practical options for liquid waste management.
- Coastal GasLink is working with the city of Dawson Creek to participate in a joint synergy group meeting with other industry partners in the area. The purpose of this meeting is to gather and share project information, schedules, and potential community requests to avoid waste management strain on one area for project service needs. This meeting was suggested and will be organized by the municipality.
- Coastal GasLink is continuing to work with Northern Health and the Ministry of Environment on waste management permitting.
- Coastal GasLink is implementing a Chemical and Waste Management Plan on site to ensure all materials and waste are recycled and disposed of in identified facilities.

4.8.2 Mitigation Effectiveness

Based on early conversations with local and regional facilities regarding capacity prior to construction, Coastal GasLink has identified service gaps in certain municipalities and is delivering solutions for these areas, such as on-site waste management services. This will continue as a site-specific approach to ensure an understanding of community specific requests and to adjust site-specific plans as necessary.

4.9 COMMUNITY UTILITIES AND SERVICES: RECREATIONAL FACILITIES

A potential adverse effect identified in this area includes:

- increased demand on community recreational facilities

4.9.1 Activities

- As our workforce accommodations mobilize, recreational facilities are included in the design plans. Workforce accommodation plans include exercise equipment as well as access to electronics.

4.9.2 Mitigation Effectiveness

- There have been no potential residual adverse effects identified by SEEMP contacts in this reporting period. No additional mitigation measures are required at this time.

4.10 COMMUNITY UTILITIES AND SERVICES: EDUCATION SERVICES

A potential adverse effect identified in this area includes:

- increased demand for education services

4.10.1 Activities

- Coastal GasLink communicated with local education and training service providers well in advance of construction regarding anticipated schedules, workforce, skills requirements and expected demands.
- Prior to the positive FID on October 2, 2018, Coastal GasLink and TC Energy spent over \$3 million on investments in skills training and long-term education initiatives in northern BC.

4.10.2 Mitigation Effectiveness

There have been no potential residual adverse effects identified by SEEMP contacts in this reporting period. No additional mitigation measures are required at this time.

4.11 COMMUNITY UTILITIES AND SERVICES: GOVERNMENT SERVICES

A potential adverse effect identified in this area includes:

- increased demand on government services

4.11.1 Activities

- Coastal GasLink has communicated with government agencies in advance of construction regarding anticipated schedules, workforce and expected demands.

4.11.2 Mitigation Effectiveness

There have been no potential residual adverse effects identified by SEEMP contacts in this reporting period. No additional mitigation measures are required at this time.

4.12 COMMUNITY UTILITIES AND SERVICES: HOUSING AND COMMERCIAL ACCOMMODATION

Identified potential adverse effects in this area include:

- reduction in available rental housing and commercial accommodation

4.12.1 Activities

- Coastal GasLink has constructed two out of 15 planned self-sufficient workforce accommodation locations as a mitigation measure to avoid strain on community and regional infrastructure and services including housing and commercial accommodation. Project workers are provided workforce accommodation during the construction season.
- During early stages of construction, a small number of workers require accommodation in town while workforce accommodations are being constructed. This is currently the case for the town of Chetwynd and Houston.
- The Project has communicated with the BC Hotel Association, the Northern BC Tourism Association, and chambers of commerce to ensure accommodation providers are able to plan for increased activity should the need arise.

4.12.2 Mitigation Effectiveness

Through conversations with local governments and accommodation providers, Coastal GasLink understands that capacity issues may exist in some municipalities. Coastal GasLink is continuing to have discussions around general housing concerns and impacts in the Kitimat and Terrace area. The concern is inflation of property values due to supply and demand that may affect housing affordability for long-time residents of the area. Coastal GasLink will continue to work with these municipalities to monitor the situation and identify other mitigation solutions, if required.

As presented in the Application, there are no anticipated long-term or permanent effects on rental housing or commercial accommodation that cannot be mitigated.

4.13 TRANSPORTATION INFRASTRUCTURE AND SERVICES: TRAFFIC

A potential adverse effect identified in this area includes:

- increased traffic volumes from transportation of workers, supplies and equipment leading to decreased road safety
- increase in rail traffic resulting from the shipment of project-related materials
- increased air passengers in local and regional airports

4.13.1 Activities

- On June 1, 2019, Coastal GasLink completed a parking lot and implemented a park-and-ride service from the Sitka Lodge to the Kitimat Meter Station site.
- Coastal GasLink is currently in discussions with an Indigenous community with regards to the Lejac workforce accommodation access road within their traditional territory. This access road is located directly off a busy provincial highway and may be difficult for motorists to see. Coastal GasLink is working to implement mitigation outlined in the Access Control Management Plan and to develop a long-term strategy with the Indigenous community and the Ministry of Transportation and Infrastructure (MOTI) to build a dedicated turning lane as permanent access into the site.
- Coastal GasLink has engaged with local government to understand the road-use requirements to ensure maximum safety for the workers and the public. This information has been incorporated into construction plans for access roads and required road usage.
- Coastal GasLink has been implementing numerous communication methods such as community meetings, project updates and community newsletters to ensure that landowners and communities are informed on construction activities.
- For current construction personnel, transportation between construction yards, workforce accommodations and the construction site is provided by multi-passenger vehicles (to the extent practical) in order to reduce vehicle traffic. Currently this process is being used in the District of Kitimat and will be implemented on a case-by-case basis going forward along the pipeline route.

4.13.2 Mitigation Effectiveness

Coastal GasLink has been in discussions with the District of Kitimat around a worker parking overflow concern at the Sitka Lodge workforce accommodation site. As a result, an additional temporary parking lot and a park-and-ride service was implemented for Coastal GasLink workers until a longer term parking lot can be

established at the Coastal GasLink Kitimat Meter Station property. The implemented parking and traffic mitigation within the District of Kitimat is currently deemed as effective by all parties.

The Project is continuing discussions with the Indigenous community and MOTI on the Lejac workforce accommodation road access prior to construction at that location.

4.14 TRANSPORTATION INFRASTRUCTURE AND SERVICES: NAVIGABILITY OF WATERWAYS

Identified potential adverse effects in this area include:

- disruption of movement on navigable waterways

4.14.1 Activities

- There have been no instream works to date that would interact with or adversely affect safe navigation on a navigable waterway.
- Coastal GasLink has and will continue to provide notification when construction on waterways commences. This involves installing warning signs along the banks of both upstream and downstream of the crossings to caution users of a navigation hazard, where appropriate.

4.14.2 Mitigation Effectiveness

As no instream work has occurred during this reporting period, there have been no potential residual adverse effects identified. As a result, no mitigation has been required during this reporting period.

5.0 ADAPTIVE MANAGEMENT

One corrective action was implemented to address parking at Sitka Lodge in Section 8. The concern was resolved on June 1, 2019, with the additional temporary parking lot and a park-and-ride system implemented by Coastal GasLink.

Although several discussions have taken place through proactive engagement, specifically with regards to waste management, housing considerations and the Lejac workforce accommodation road access, corrective action has not been required during this reporting period. If corrective action is determined through ongoing monitoring, it will be identified in the reporting period the action is implemented in.

No further adaptive management methods were required during this reporting period. As construction advances, Coastal GasLink will continue to monitor mitigation effectiveness and collect feedback regarding potential direct construction adverse effects.

6.0 CLOSING

At this early phase of construction activity, there have been no detectable adverse effects that would change the predictions of the environmental assessment. Significant adaptive management strategies have not been required to correct for unanticipated potential adverse effects on economy, regional and community infrastructure and services and transportation infrastructure and services.

SEEMP status reports are developed on a semi-annual basis as required by Condition #24 of the EAC.

The SEEMP provides a framework for Coastal GasLink to receive feedback from affected Indigenous groups, stakeholders and communities and address concerns. Local governments, provincial agencies and Indigenous groups are encouraged to contact Coastal GasLink if a concern is identified related to the Project’s SEEMP implementation. Issues can be identified directly by telephone, email or mail to the identified Coastal GasLink SEEMP representative:

Coastal GasLink toll-free number	1-855-633-2011
Email	CoastalGasLink@TransCanada.com
Vancouver Office	#630, 609 Granville St. Vancouver, BC, Canada V7Y 1G5
Calgary Office	450 - 1st St. S.W. Calgary, AB, Canada T2P 5H1

Appendices – Contents

Appendix A SEEMP Mitigation Status Table

Appendix A

SEEMP Mitigation Status Table

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
VALUED COMPONENT: ECONOMY				
<i>Key Indicator: Contracts and Procurement Expenditures</i>				
<i>Limited participation in contract opportunities</i>	<i>EA Table 12-8</i>	<ul style="list-style-type: none"> Implement a procurement strategy that provides opportunities for qualified Aboriginal and local contractors 	June 3, 2019	Complete
	<i>EA Table 12-8</i>	<ul style="list-style-type: none"> Continue discussions with economic development representatives from Aboriginal and local communities to communicate Project requirements, potential contract opportunities and related qualifications (i.e., insurance, safety, required personnel, skills, certifications, experience, equipment, materials, etc.) 	December 1, 2021	In Progress
	<i>EA Table 12-8</i>	<ul style="list-style-type: none"> Continue discussions with economic development representatives from Aboriginal and local communities to identify qualified Aboriginal and local businesses interested in providing relevant goods and services 	December 1, 2021	In Progress
<i>Key Indicator: Community Economic Resilience</i>				
<i>Alteration of existing community economic patterns</i>	<i>EA Table 12-8</i>	<ul style="list-style-type: none"> Communicate the Project schedule and identify the short-term nature of Project construction activities to local economic development organizations to manage expectations 	June 14, 2019	Complete
	<i>EA Table 12-8</i>	<ul style="list-style-type: none"> Adhere to the Traffic Control Management Plan to reduce construction related traffic and corresponding potential adverse effects on local business operations 	December 1, 2021	In Progress
VALUED COMPONENT: EMPLOYMENT AND LABOUR FORCE				
<i>Key Indicator: Employment</i>				
<i>Skilled labour shortage</i>	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Implement the Coastal GasLink training program to enable unemployed or underemployed individuals to develop Project specific employment skills and seek Project employment. 	December 1, 2021	In Progress
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Provide the Project schedule to economic development organizations and post-secondary institutions to inform them of peak workforce demands 	June 14, 2019	Complete

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Ensure alternative sources of skilled workers are in place to avoid disruption of the local employment market 	December 1, 2021	In Progress
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Communicate with economic development organizations to confirm existing employment conditions in communities and the broader region before executing the employment strategy 	June 14, 2019	Complete
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Monitor the success of the Coastal GasLink training program 	December 1, 2021	In Progress
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Follow-up with economic development organizations and community representatives to confirm employment conditions in communities and the broader region 	June 14, 2019	Complete
<i>Key Indicator: Training Opportunities</i>				
<i>Lack of time to train local workers for skilled positions</i>	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Confirm Project workforce needs well in advance of Project construction with economic development organizations, employment centres and educational institutions 	December 1, 2019	In Progress
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Provide opportunities for qualified workers currently apprenticing to obtain trades certification during Project construction. 	December 1, 2021	In Progress
	<i>EA Table 12-9, 12-11 and 12-13</i>	<ul style="list-style-type: none"> Develop and implement a training program focused on developing Project specific skills. Short term workforce readiness training directly related to the proposed Project will focus on: <ul style="list-style-type: none"> assessing and identifying gaps determining proper skills development developing processes to help local residents obtain construction related employment 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
VALUED COMPONENT: COMMUNITY UTILITIES AND SERVICES				
<i>Key Indicator: Emergency Services</i>				
<i>Increased demand on local emergency services</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to all WorkSafe BC safety standards on work sites during construction and operations. Contact with service provider will be established before construction and documented through the contractor's Emergency Measures Plan 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to Coastal GasLink Emergency Response Plan (ERP) for proposed Project related emergencies 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with local emergency service providers, fire departments and RCMP detachments throughout the proposed Project construction and operations phases to provide proposed Project construction schedules and maps and to identify issues such as staffing requirements, access needs and emergency evacuation routes 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Provide key proposed Project personnel contact information, construction schedules, and proposed Project maps with access routes to RCMP detachments, fire departments and ambulance service providers 	June 14, 2019	Complete
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> During worker and Contractor orientation sessions, reinforce the importance of respectful conduct when in communities 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to TransCanada's Health, Safety and Environment Commitment in Appendix E of the Social Technical Report (Appendix 2 M of the Application) 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure Prime Contractors submit and adhere to safety plans that address emergency procedures 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure that the proposed Project will be staffed with sufficient numbers of emergency medical personnel with appropriate certifications, supplies and conveyance requirements based on numbers of workers, hazard risk at the work sites and proximity to medical facilities. 	December 1, 2019	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Supervisory personnel will be on site at all times during drilling, reaming and pullback operations to ensure that emergency response measures will be implemented immediately and effectively. Coastal GasLink will also assign inspection personnel to the site during all phases of watercourse drilling 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Implement mitigation outlined in Section 21 of the Application, Accidents or Malfunctions 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to the Chemical and Waste Management Plan, Spill Contingency Plan, Fire Suppression Contingency Plan, Adverse Weather Contingency Plan and Traffic Control Management Plan in the EMP (Appendix 2 A of the Application) 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with local emergency services, including police, fire and ambulance services, three months before construction, regarding known reasonably foreseeable future development and activities (Appendix 3-A, EA), to understand and address potential overlaps and potential issues with increased demand on existing local emergency services, including police, fire and ambulance services. 	December 1, 2019	In Progress
<i>Key Indicator: Health Care Services</i>				
<i>Increased demand on health care services</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Continue to communicate with local and regional health care providers before proposed Project construction activities to identify potential service gaps and issues. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Discuss with health care providers the use of health care facilities during pre-construction to determine the capacity and capabilities of health care facilities and also determine any concerns or expectations on the part of facility managers. 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to Coastal GasLink emergency response procedures outlined in the ERP. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to TransCanada's Health, Safety and Environment Commitment in Appendix E of the Social Technical Report (Appendix 2 M of the Application). 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Follow all WorkSafe BC safety standards on work sites during construction. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure Prime Contractors submit and adhere to safety plans that address emergency procedures. 	December 1, 2019	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure that the proposed Project will be staffed with sufficient numbers of emergency medical personnel with appropriate certifications, supplies and conveyance requirements based on numbers of workers, hazard risk at the work sites and proximity to medical facilities. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Supervisory personnel will be on site at all times during drilling, reaming and pullback operations to ensure that emergency response measures will be implemented immediately and effectively. Coastal GasLink will also assign inspection personnel to the site during all phases of drilling of the watercourse 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Implement mitigation outlined in the Application, Section 21 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to the Waste Management Plan, Spill Contingency Plan, Fire Suppression Contingency Plan, Adverse Weather Contingency Plan and Traffic Control Management Plan in the EMP (Appendix 2 A of the Application) 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure senior medical providers are available in the field to provide medical care if a worker needs treatment 	December 1, 2019	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure first-aid personnel are available in the construction camps for emergencies, and available at the appropriate times to accommodate workers who require medical treatment 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Outfit the first-aid room with proper equipment and running water as outlined in the WorkSafe BC regulations 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure medical staff requirements are based on WorkSafe BC ratios of work activity, number of workers and distance (i.e., time) from nearest medical centre 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with local and regional health care providers three months before construction, regarding known reasonably foreseeable future development and activities (Appendix 3-A), to understand and address potential overlaps and potential issues with increased demand on health care services 	August 5, 2019	In Progress
<i>Key Indicator: Social Services</i>				
<i>Increased demand on community social services</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Continue to communicate with local and regional social service providers to confirm current community social service issues. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Provide key personnel for the proposed Project with contact information and construction schedules for local and regional social service providers 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Adhere to TransCanada’s Health, Safety and Environment Commitment in Appendix E of the Social Technical Report (Appendix 2 M of the Application) 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> House the proposed temporary workforce in construction camps and develop appropriate construction camp policies. Provide the following amenities: <ul style="list-style-type: none"> recreational facilities and activities such as exercise equipment (e.g., weights) and electronics (e.g., television and movies) telephone and internet access 	December 1, 2021	In Progress
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> Communicate with local community social services three months before construction, regarding known reasonably foreseeable future development and activities (Appendix 3-A), to understand and address potential overlaps and potential issues with increased demand on community social services 	December 1, 2019	In Progress
<i>Key Indicator: Waste Management Facilities</i>				
<i>Increase in waste flow to regional landfill and transfer station sites, and wastewater treatment facilities</i>	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> Coastal GasLink will confirm the capacity of local and regional facilities to accept waste and recycling before construction of the proposed Project. 	August 5, 2019	In Progress
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> Adhere to Coastal GasLink's Chemical and Waste Management Plan in the EMP (Appendix 2 A of the Application) 	December 1, 2021	In Progress
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> All waste materials will be disposed of according to federal and provincial legislation, and municipal and regional regulations, as required 	December 1, 2021	In Progress
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> All staff of the proposed Project with waste management and hazardous materials responsibilities will be educated according to regulatory requirements specific to the proposed Project. All personnel shall understand their responsibilities for proper handling, identification, documentation and storage of wastes and hazardous materials 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> An appropriate number of portable toilets shall be made available to ensure each crew has ready access to washroom facilities. The facilities will be serviced and cleaned regularly, and adequately secured. All site personnel are to use portable toilets 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Each construction site will be equipped with adequate garbage receptacles for solid non-hazardous wastes and debris. These materials will be collected, as required, and disposed of at approved locations. Food wastes will be stored in animal proof (bear-proof) containers and transported to an appropriate landfill site 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Receptacles for recycling various products (e.g., paper and aluminum) will be available at proposed Project construction yards and camps and will be hauled to appropriate recycling depots 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with local and regional landfill, transfer station and wastewater treatment operators to identify service gaps and resulting issues 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with local and regional waste facilities three months before construction, regarding known reasonably foreseeable future development and activities (Appendix 3-A, EA), to understand and address potential overlaps and potential issues with increase in waste flow to regional landfill and transfer station sites and wastewater treatment facilities 	August 5, 2019	In Progress
<i>Key Indicator: Recreational Facilities</i>				
Increased demand on community recreational facilities	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Continue to communicate with municipal recreation facility operators to confirm the proposed Project construction and workforce schedules to ensure municipal recreational service providers have sufficient notice regarding possible increased use. 	April 1, 2020	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Ensure workers will have access to recreational facilities in the construction camps where they reside during the construction phase. These facilities will include exercise equipment within the camp and access to electronics will be available (e.g., television, movies). 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with municipal recreational facility operators to identify service gaps and resulting issues 	December 1, 2021	In Progress
<i>Key Indicator: Education Services</i>				
<i>Increased demand for education services</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with educational and training service providers well in advance of proposed Project construction regarding schedules, workforce, skills requirements and expected demands 	December 1, 2021	In Progress
<i>Key Indicator: Government Services</i>				
<i>Increased demand on government services</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with government agencies well in advance of proposed Project construction regarding schedules, workforce and expected demands. Government agencies and services used will be specified when proposed Project details are finalized 	November 1, 2018	Complete
<i>Key Indicator: Housing and Commercial Accommodation</i>				
<i>Reduction in available rental housing and commercial accommodation</i>	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with hotel associations, commercial accommodation providers (i.e., campgrounds, hotels and motels, RV parks) and Chambers of Commerce when proposed Project construction schedules are known to ensure accommodation providers are able to plan for increased activity. 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> Communicate with community representatives to assess the current housing availability and options for hosting worker's families 	December 1, 2021	In Progress
	<i>EA Table 15-18, 15-20, 15-22 and 15-24</i>	<ul style="list-style-type: none"> If accommodations are reserved for personnel of the proposed Project, and are determined not to be needed, request that the Contractor release the rooms 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	EA Table 15-18, 15-20, 15-22 and 15-24	<ul style="list-style-type: none"> Communicate with hotel associations, commercial accommodation providers (i.e., campgrounds, hotels and motels, RV parks) and Chambers of Commerce three months before construction, regarding known reasonably foreseeable future development and activities (Appendix 3-A), to understand and address potential overlaps and potential issues with a reduction in available rental housing and commercial accommodation 	June 14, 2019	Complete
VALUED COMPONENT: TRANSPORTATION INFRASTRUCTURE AND SERVICES				
<i>Key Indicator: Traffic</i>				
<i>Increased traffic volumes from transportation of workers, supplies and equipment leading to decreased road safety</i>	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Implement the Traffic Control Management Plan in the EMP (Appendix 2A of the Application) and the Access Control Management Plan. 	December 1, 2021	In Progress
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Before construction activities, use community media outlets such as newspapers and radio stations, and email updates to announce the location and schedule of construction activities 	December 1, 2021	In Progress
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Confirm the proposed Project construction schedule and road crossing procedures with BC Ministry of Transportation and Infrastructure staff before construction activities 	November 1, 2018	Complete
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Communicate with RCMP detachments to define traffic safety concerns and mitigation before proposed Project construction 	June 14, 2019	Complete
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Coastal GasLink will transport pipe materials to the proposed Project area by rail, where off-loading (rail sidings) are available and where practical. 	December 1, 2021	In Progress
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Access points to the ROW will be flagged and signed to discourage public use 	December 1, 2021	In Progress
	EA Table 15-25, 15-27 and 15-31	<ul style="list-style-type: none"> Construction personnel will be transported between construction yards, construction camps and the construction site by multi-passenger vehicles, to the extent practical, to reduce vehicle traffic 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Motorized vehicle traffic, including all-terrain vehicle (ATV), ARGO and snowmobile traffic, will be confined to the approved route, access roads or trails except where specifically authorized by the appropriate regulatory authority 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Vehicles will be limited to travel on the access roads for which they are designed. Most vehicles are able to turn around within the width of the construction ROW. Stringing trucks require extra turning radius. Consequently, approaches to the pipeline ROW or existing public roads will be wider when used for stringing trucks. Where turnarounds are needed on the ROW, extra space will be necessary on the travel side of the ROW. Previously disturbed areas will be used for this purpose, where practical 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Efforts to control off-road vehicle use will be coordinated with the appropriate authorities and conducted until the ROW has been satisfactorily reclaimed. All proposed Project-related vehicles will follow applicable traffic, road-use and safety laws 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Communication with communities where known traffic issues exist once the proposed Project schedule is confirmed 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Communication with forest licensees to address cumulative road use issues 	December 1, 2021	In Progress
<i>Increase in rail traffic resulting from the shipment of Project-related materials</i>	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Communicate with CN Rail to confirm rail capacity, siding availability, schedules, and potential issues related to shipping pipe materials by rail. 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Work with community representatives to identify suitable stockpile sites for pipe material, where practical. Specific selection would consider proposed Project requirements, access roads and general site conditions 	December 1, 2021	In Progress
<i>Increased air passengers in local and regional airports</i>	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Communicate with local and regional airport authorities of proposed Project construction activities to inform them of proposed Project schedules 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Before construction activities, use community media outlets such as newspapers and radio stations to announce the location and schedule of construction activities to avoid impacts on access to air travel by residents 	December 1, 2021	In Progress

POTENTIAL ADVERSE EFFECTS	REGULATORY REFERENCE	MITIGATION Coastal GasLink is responsible for implementing mitigation presented in the SEEMP	DUE DATE	STATUS
<i>Key Indicator: Navigability Of Waterways (NOTE: no instream work has happened during this reporting period)</i>				
<i>Disruption of movement on navigable waterways</i>	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Adhere to watercourse crossing mitigation outlined in Section 7 of the Application 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Obtain necessary approvals under Navigable Waters Protection Act, as required 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Make the Project construction schedule and location maps available to recreational user groups and other members of the public to avoid conflict with planned activities 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> If directed by the appropriate regulatory authority, install warning signs along the banks both upstream and downstream of the crossing to caution users of a navigational hazard, where appropriate 	December 1, 2021	In Progress
	<i>EA Table 15-25, 15-27 and 15-31</i>	<ul style="list-style-type: none"> Discuss with TC to ensure that appropriate procedures were used for navigable waterway crossings 	December 1, 2021	In Progress