

LNG Canada

2020 Q2 Social Management Roundtable / CLISMP Update



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Joint venture companies



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1. Executive Summary

LNG Canada is committed to managing socio-economic effects associated with the construction and operation of its liquefied natural gas (LNG) facility and marine terminal (the Project). LNG Canada began implementation of its Community Level Infrastructure & Services Management Plan (CLISMP) on April 1, 2019. The CLISMP entails social management plans that outline actions to mitigate the Project's adverse direct effects on community level infrastructure and services, community engagement mechanisms, socio-economic monitoring, and reporting over the duration of construction and 2-years into operations. CLISMP scope focuses on communities near the LNG Plant footprint, namely: District of Kitimat, City of Terrace, Regional District of Kitimat Stikine, Haisla First Nation, Kitselas First Nation and Kitsumkalum First Nation. When considering potential impacts to community health, primarily diet and nutrition, the CLISMP scope is broadened to also consider nearby Indigenous Groups: Gitxaala Nation, Gitga'at First Nation, Lax Kw'alaams Band and Metlakatla First Nation

1.1. Summary of Project Effects

Overall, the Project had limited direct impact on community level infrastructure and services during the first half of 2020, apart from waste volumes sent to Forceman Ridge landfill which are observed to be accelerating decline in remaining available capacity. Induced effects resulting from increased economic activity and population continue to be felt in surrounding communities, most notably high rental costs and decreased rental vacancies. However, the effects of the COVID-19 pandemic and the related lockdown across British Columbia March – May 2020 have played the most significant role in changing demand for infrastructure and services in the region during the reporting period. The Project took distinct actions in response to COVID-19 with dramatic reductions in the site workforce throughout March and April, reduced travel to and from the Project site and put new logistics and accommodations protocols in place to meet evolving physical distancing and hygiene requirements. Towards the end of May 2020, a cautious increase in workforce resumed.

At the end of 2020 Q2, 2,296 people were employed with the LNG Canada Project in Kitimat, with an average of 1,071 non-local workers staying at worker accommodation centres (Sitka Lodge, Sitka Annex 2, and Crossroads Lodge). In the same time period, the Project employed a peak of 632 workers from local communities. Table 1 summarizes the direct Project effects on community infrastructure and services measured in 2020 Q1 & Q2 and evaluates the effectiveness of mitigations.



Table 1 Summary of Direct Project Effects January—June 2020 (2020 Q1 & Q2)

Social Impact Category	Measurable changes	Effectiveness of Mitigations
Housing & Accommodations	1,071 non-local Project workers (average) housed in open lodge accommodations while on rotation in June (Q2 peak), lower than 1,520 in February (Q1 peak). 40 accompanied Project employees relocated to Kitimat with 29 partners and 28 children by June 2020.	By prioritizing hiring from the local area, providing housing for non-local workers in open lodges, and not paying living out allowances to the workforce, the Project has limited demand on market housing.
Community Health	There were 25 workplace injuries and illnesses (seven occupational, 18 non-occupational) requiring treatment in local hospitals in Q2, compared to 36 in Q1 (8 occupational, 28 non-occupational). This is the equivalent of approximately 1.0% of the ER visits to Kitimat General Hospital in 2020 Q1 and Q2. The Project met frequently with BC MOH and Northern Health to establish and implement COVID-19 prevention and containment protocols.	By providing medical services at the Project site, Sitka Lodge and Crossroads Lodge, effectively implementing preventive COVID-19 protocols, and regular communication and coordination with health officials, the Project has limited direct demand on local medical services.
Air Traffic	In 2020 Q1, 8.5% of average commercial airport traffic was directly attributable to the Project. The proportion of traffic attributable to the Project increased to 18.6% in 2020 Q2, while the overall volume of aviation passengers decreased for this period due to COVID-19.	By increasing the use of chartered flights for ~60% of the workforce by the end of Q2, Project direct effects on YXT commercial flights were limited.
Road Traffic	During 2020 Q2 approximately 0.4% of overall road traffic on Hwy 37 (north of Kitimat) was directly attributable to the Project movement of workers via shuttle busses, with additional road use associated with delivery of materials and equipment.	By transporting workers to and from the airport, open lodges and Project site on company-provided shuttles, establishing Park & Ride lots and enforcing shuttle transit for local workers, the Project has limited the use of personal vehicles on local roads.
Emergency Response Services	In 2020 Q2, 1.6% of KFAS calls and 0.1% of RCMP calls were directly attributable to the Project, compared to 0.0% of KFAS calls and 0.1% of RCMP calls in 2020 Q1. Two incidents required RCMP response over the 2020 Q1 & Q2 period. There were six ambulance service calls to address Project workforce needs in Q2, and no fire department calls or medical evacuations required for 2020 Q1 & Q2.	By implementing the workers code of conduct and cultural awareness training, Emergency Response Plans, the Safer Together Program and providing on-site security at Sitka, Annex 2 and Crossroads lodges, the Project has limited direct demand for local emergency services.



Table 1 Summary of Direct Project Effects January—June 2020 (2020 Q1 & Q2)

Social Impact Category	Measurable changes	Effectiveness of Mitigations
Community Amenities	There were no adverse changes in the available service capacity of community amenities providers that were attributable to the Project.	By providing recreational facilities in Sitka Lodge, Sitka Annex 2 and Crossroads Lodge, the Project is limiting direct demand on community amenities.
Education	28 school age children relocated to the area accompanying Project employees by the end of 2020 Q2, with no notable impact on educational enrollment rates.	By limiting the number of employees relocated to Kitimat with accompanying family, Project direct effects on childcare facilities and education programs were limited. Some post-secondary institutions experienced inverse effects where students were leaving the programs to work on the project.
Utilities	In 2020 Q2, Project solid waste disposal contributed to the accelerated decline in available capacity of the RDKS Forceman Ridge waste disposal site. As a result of increased waste volumes received in the past year, the projected facility lifespan of 100 years (as of 2018) was adjusted downwards to 95 years (as of 2020). No Project waste was disposed at the Kitimat municipal landfill in 2020 Q2.	By implementing the Waste Management Plan (solid waste, wastewater), the Project has limited direct demand on municipal utilities. The Project is working directly with Forceman Ridge to plan for future anticipated waste volumes.

Available socio-economic data for Q1–Q2 2020 indicates that the Project has managed its direct demand on community level infrastructure and services. While no adverse effects directly attributable to Project activities have been observed for this time period, the increase in industrial solid waste directed to Forceman Ridge landfill is being closely monitored by both the Project and RDKS to ensure adequate planning and capacity considerations are addressed. As Project mitigations are seen to be effective, there are no adaptive management considerations for this period. Adaptive management is a cycle in which the effectiveness of mitigation measures is evaluated based on monitoring results, and adjusted if needed, to achieve desired objectives. While adaptive management will be a continual process, the CLISMP will be reviewed on an annual basis, and adjustments made as needed, with respect to engagement, monitoring, and reporting.



1.2. Summary of Community Trends

CLISMP community data was last reported for the 2019 Q4 period. The following trend analysis reflects a modified approach to represent community monitoring data over a six month or semi-annual period. Stated increases or decreases are year-over-year (YOY) comparisons of 2020 compared to 2019, unless otherwise indicated. Several trends were observed from community socio-economic monitoring efforts during 2020 Q1 & Q2 that are more generally attributed to the decline in economic activity, population mobility, and service demand stemming from the COVID-19 pandemic.

REGION

- Higher rental costs and fewer vacancies, particularly in Terrace
- Extreme weather response shelters extended from April to September 2020 in response to the pandemic
- 4% YOY decrease in commercial passengers transiting through Northwest Regional Airport (YXT) in Q1 and an 84% YOY decrease in Q2
- 1% YOY increase in Highway 37 traffic in Q1 and 8% YOY decrease in Q2
- 9% YOY decrease in hotel/motel occupancy in 2020 Q1 and a 28% YOY decrease in 2020 Q2, and 8% YOY decrease in average daily rates (ADR) in 2020 Q1 and 13% YOY decrease in Q2
- Reduced capacity at facilities, business closures, and travel bans affected the region's economy (as seen across the country and world)

KITIMAT

- Decline in workers accommodated at Sitka, Annex 2, and Crossroads open lodges in April 2020; however, occupants steadily ramped up by the end of 2020 Q2 with implemented COVID-19 safety measures.
- Highest combined average occupancy across all open lodges was over 1,700 occupants in February 2020. By June 2020, the average combined occupancy was over 1,400 guests.
- Decline in rental vacancy and increase in average rent, with the highest estimated vacancy for furnished two--bedroom apartments.
- Average quarterly residential house resale price in 2020 Q2 is down from the 2019 Q2 high, but remains substantially higher than pre-FID level.
- Reduced capacity of social housing and non-resident support services in response to COVID-19, resulting in decreased available capacity and suppressed demand. Seasonal emergency shelter operation extended into warmer months.
- Inadequate wages and lack of qualified workers reported as barriers to staffing childcare centres.
- Across all call categories, there was a 7% overall decrease in calls for service to Kitimat Fire and Ambulance Services (KFAS) in the first half of 2020 compared with the same period in 2019.
- KFAS Fire related calls increased 19% for Q1 YOY, followed by a 3% decrease YOY for Q2.
- KFAS medical-related calls increased 31% for Q1 YOY followed by an 8% decrease YOY for Q2.
- Calls for service to the RCMP increased 19% YOY in Q1, and decreased 13% YOY in Q2.
- The number of founded Criminal Code/Federal Statute offences in Kitimat increased 17% in Q1 and decreased 21% in Q2 between 2019 and 2020.



- While 2020 Q1 ER Visits to Kitimat General Hospital increased 2% YOY, 2020 Q2 ER visits were approximately 30% lower than 2019 Q2, a decline consistent with the pattern seen across BC resulting from public health measures put in place in response to the COVID-19 pandemic.

TERRACE

- Terrace housing rental market extremely tight at 0.7% estimated vacancy as of July 2020.
- Residential house resale prices in 2020 Q2 are down 17.8% from 2019 Q4 but remain above pre-FID prices.
- Elevated demand for social housing/support services
- Emergency shelters operating at reduced capacity in response to COVID-19, resulting in decreased available capacity and suppressed demand, with seasonal operation extended into warmer months.
- 40% and 70% decrease in Terrace Fire Department calls in Q1 and Q2, respectively, between 2019 and 2020, largely due to changes in call routing.
- 2% increase in ambulance service (BCEHS) calls (+16% urgent calls) in Q1 YOY, followed by a 19% decrease YOY in Q2 BCEHS calls (-35% urgent calls).
- 6% increase YOY in Terrace RCMP calls for service in 2020 Q1 and 19% decrease YOY in 2020 Q2.
- The number of founded Criminal Code offences increased 10% in Q1 and decreased 35% in Q2 between 2019 and 2020.
- ER visits to Mills Memorial Hospital in 2020 Q1 and Q2 declined by 12% and 33%, respectively, compared to 2019 Q1 and Q2 (similar to KGH, COVID-19 response is identified as a reason for Q2 decline).

Additional Community monitoring trends can be found in Appendix D of the report.

1.3. Summary of Social Management Roundtable Working Group Sessions

On September 15 and 16, LNG Canada and its prime contractor JGC Fluor Joint Venture (JFJV) convened its 2020 Q2 Social Management Roundtable which pulled together four working groups to review Project data and socio-economic monitoring trends and gathered feedback to better understand the experiences of community. Working groups were:

1. Housing & Accommodations (and Child Care)
2. Community Health
3. Traffic & Emergency Response
4. Community Amenities, Utilities and Education

Participants representing 32 communities, First Nations, government agencies and stakeholder groups joined the LNG Canada Project team virtually to ask questions and to provide feedback and insights. Ahead of the meeting, participants were provided with pre-read materials including comprehensive community monitoring data for the Q1 & Q2 period, Project monitoring data and an update on open actions from previous SMR sessions.



As in prior sessions, the Project team addressed items raised at previous meetings and took on additional areas for clarification and response to support overall mitigation efforts. Several provincial agencies also participated at the roundtable and contributed to areas of community discussion above and beyond what the LNG Canada Project might be able to directly address.

Discussion points from each working group sessions are captured in Section 6 of this report. A summary of SMR action items and follow up discussion points can be found in Section 7 of this report.

2. Introduction

This interim update provides an overview of Project activities during 2020 Q2 ending June 30 and summarizes Project-specific metrics alongside socio-economic trends observed in community and anecdotal feedback to help the Project assess effectiveness of its social management plans. This report also serves as a record of information and discussion from Social Management Roundtable (SMR) working group meetings that took place via tele-conference on September 15 and 16, 2020.

3. Project Update

The LNG Canada Project (Phase 1) is anticipated to take approximately five years to complete. Initial years of Project construction will focus on site preparation, construction of the Cedar Valley Lodge (worker accommodation), LNG tank and the marine terminal. Major construction supported by up to 4,500 non-local workers on site is slated to commence in 2022, following arrival of modules from overseas and will involve assembly of the LNG plant and associated components.

2020 Project activities have continued to focus on site preparation with an increasing number of site construction work scopes progressing as the Project profile transitions to 'getting out of the ground'. In March 2020, the LNG Canada Project responded to the emerging COVID-19 situation by curtailing work in Kitimat with a reduced workforce focused on essential activities including environmentally sensitive work with limited seasonal windows, work scopes that are a regulatory requirement, offloading of materials and equipment needed in Kitimat, and schedule-sensitive activities including completion of Cedar Valley Lodge. By May 2020, LNG Canada initiated a carefully managed and gradual increase of construction activities at the Kitimat project site, informed by the provincial government's multi-phased BC Restart Plan. The COVID-19 situation continues to be closely monitored. Any adjustments to work activities are made with primary consideration for the safety and wellbeing of workers and communities.

A summary of Project activities completed and ongoing in Kitimat from January through to August 2020 was shared with SMR participants on September 15 and is provided below. The Project achieved commendable progress on focused scopes of work during 2020 Q2 with a strong health and safety record.



3.1. Current Project Activities

3.1.1. Construction Update and Lookahead

The following construction activities were completed or ongoing as of August 2020:

Marine Activities

- Piling and Wharf construction at Terminal A Extension (Rio Tinto)
- Minette Bay Salt Marsh and Large Woody Debris removal
- Hospital Beach Salt Marsh **COMPLETE**
- 2nd Dredge season Sept 2019–Feb 2020 **COMPLETE**

Site Prep

- 24-hr hauling of aggregate materials to site for backfill
- Site preparation (stripping, excavation, backfill to rough grade)
- Creating fish habitat (Kitimat River Side Channel, Beaver and Anderson Creeks)
- Plant perimeter wall installation
- Demolition of Terminal B
- Temporary Construction Facilities
- Temporary Construction Offices **COMPLETE**
- Pump house abatement **COMPLETE**
- Demolition of existing Methanex Building **COMPLETE**
- Relocation of main gate to Smeltersite Road **COMPLETE**

Shipments

- Cedar Valley Lodge construction deliveries
- Receiving of piles via marine transport
- Concrete deliveries to site from Kitimat Industrial Area

Site Construction

- Bird deterrents implemented, incl. air cannons
- Module haul road (approximately 3 km)
- Pipeline Right of Way
- LNG Berth
- LNG Tank—tower crane mobilized
- Material Offloading Facility (MOF)
- Moore Creek Bridge
- Non-Process Buildings
- Piling at LNG processing plant and MOF
- River water intake
- Piling at LNG tank **COMPLETE**

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- Anderson Creek Bridge **COMPLETE**
- Cedar Valley Lodge, initial 1500 beds **COMPLETE**

In addition to the above indicated ongoing construction scopes of work, the following new marine and construction activities are slated for the remainder of 2020:

- 3rd Dredge season begins October 2020
- Piling at Berth 2—Loading Platform
- Piling at LNG Loading Line Trestle

MAJOR CONSTRUCTION MILESTONE:

On July 22, LNG Canada’s onsite worker accommodation centre Cedar Valley Lodge opened its doors to its first few hundred residents. Recreational facilities will come online later than planned due to schedule impacts of COVID-19. Cedar Valley Lodge will gradually increase capacity over the remainder of 2020 and into 2021 when 4,500 beds will be available for the workforce.

Cedar Valley Lodge is designed to be self-sufficient and will offer a complete array of amenities and services in one location—including on-site healthcare, high quality dining, a recreation facility, retail area, games room, lounge, and movie theatre—thus reducing potential strain on Kitimat’s resources as well as worker interactions with the community.

The following images capture a range of site construction activities as of August 2020:



Figure 1 Cedar Valley Lodge (AUGUST 2020)

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Figure 2 Plant Piling (AUGUST 2020)



Figure 3 LNG Tank (AUGUST 2020)

Joint venture companies



Figure 4 LNG Berth (AUGUST 2020)



Figure 5 Anderson Creek Diversion and Bridge (Haul Road) AUGUST 2020

Joint venture companies



Figure 6 Materials Offloading Facility (AUGUST 2020)



Figure 7 River Water Intake (AUGUST 2020)



3.2. Project COVID-19 Update

The Project continues to prioritize its ongoing response to the COVID-19 Pandemic with primary concern for the safety of surrounding communities and the workforce. LNG Canada and JFJV are grateful to Project employees, local and Provincial authorities, and members of the local communities—for their confidence, support, and extraordinary efforts to date, all of which has helped the Project to successfully manage its response to the COVID-19 pandemic. The Project is committed to continuing its efforts to reduce the risk of infection in all areas of our operations and activities, including:

- Continuous enhancement of COVID-19 protocols on site and at workforce accommodations
- Adherence to [Orders from Provincial Health Officer, Dr. Bonnie Henry](#)
- Adherence to [Industrial Camp Guidance \(BC Centre for Disease Control\)](#)
- Adherence to [safe construction worksite requirements \(WorkSafeBC\)](#)
- Frequent communication with regulators, Northern Health, stakeholders, and communities
- Participation in District of Kitimat COVID-19 Emergency Operations Committee
- Participation in Kitimat Economic Recovery Task Force
- Community contributions to support the local COVID-19 response

LNG Canada \$500K contribution to support Community COVID-19 response:

- Northern Health testing & diagnostics
- Coast Mountains School District virtual learning (100 laptops)
- Indigenous Communities food security and mental health program support
- Social Service Agencies (food security, fuel costs, PPE)
- Frontline Workers recognition / small business support (1,100 gift cards distributed)
- Foodbank employee donation matching

3.3. Project Workforce

Following initial efforts in early 2020 to increase the workforce, in March the LNG Canada Project responded to the emerging COVID-19 situation by drastically reducing its workforce in Kitimat to focus on essential activities as outlined above. Changes to worker rotation schedules from March to May helped minimize travel into the area. With rigorous physical distancing, screening and hygiene protocols well established for worker transportation protocols, at worker accommodation centres and at the Project site, workforce numbers steadily increased to near pre-COVID-19 levels at the end of Q2.

In June 2020 Q2, a total of 2,296 people were employed with the LNG Canada Project in Kitimat, with an average of 1,071 non-local workers staying at worker accommodation centres (Sitka Lodge, Sitka Annex 2, and Crossroads Lodge) and 632 local area workers employed. The total number of people employed represents local and non-local workers both on and off rotation, as well as new hires mobilizing to site. This value is higher than the number of workers physically in Kitimat at any given time. Workforce numbers from January to June 2020 are illustrated in Figure 8 below with a notable fluctuation in March, when total workers employed decreased significantly by the end of the month, with higher lodge occupancy reflecting average bed nights over the full month of March.

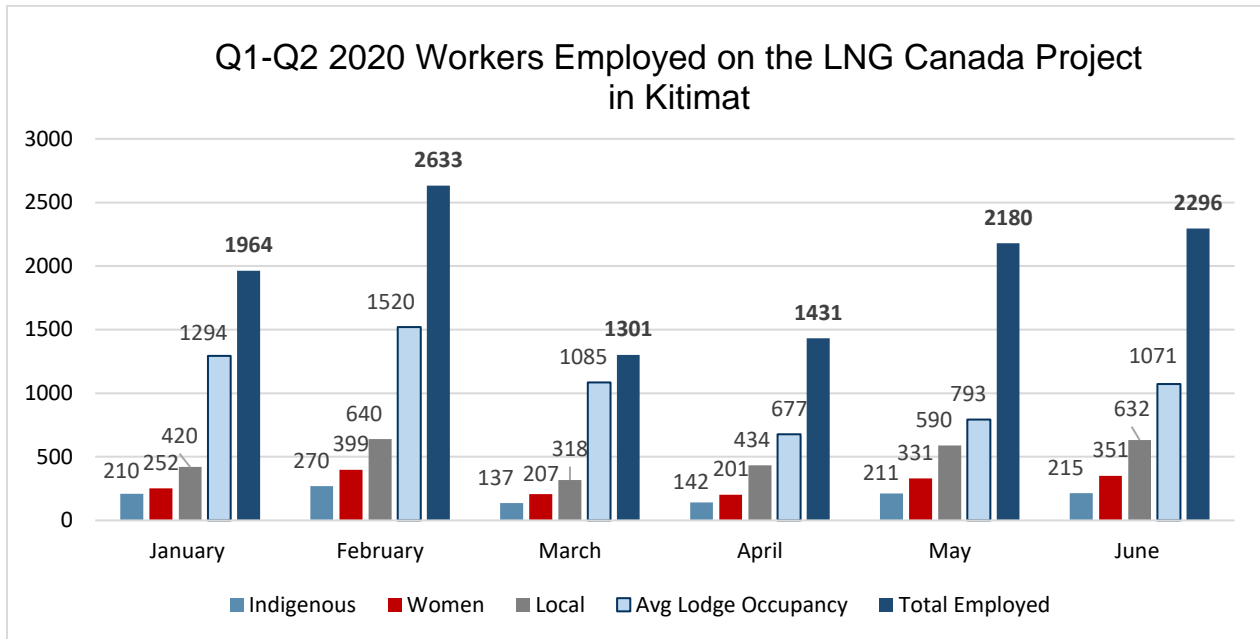


Figure 8 Workers Employed on the LNG Canada Project in Kitimat 2020 Q1 & Q2

4. Engagement

LNG Canada has a robust stakeholder and Indigenous engagement program designed to provide updated Project information and to discuss the implementation of the Plan during construction of the Project. LNG Canada will review its engagement mechanisms on an ongoing basis and will revise if needed. Table 2 below outlines a range of engagement activities carried out by LNG Canada and its prime contractor, JFJV, during 2020 Q2. These activities are complemented by routine and frequent engagement with Indigenous groups, community organizations, and local governments, including key authorities and planning focal points. In light of physical distancing and other constraints imposed by the COVID-19 pandemic, the Project has reduced some engagement activities, while increasing a range of engagements specifically related to COVID-19 response as outlined in Section 3.2. The vast majority of engagements were conducted virtually during the reporting period.



Table 2 Project Community Engagement during 2020 Q2

Engagement Type	Activities During 2020 Q2
Community Feedback Process	427 Inquiries were received and addressed from April–June 2020, of which nine were concerns or complaints. Five concerns or complaints received were related to infrastructure & services impacts.
Project Website and Facebook page	www.jfvkitimat.com for online construction updates, employment and contract opportunities. Follow JFJV Kitimat on Facebook (3,091 followers) www.facebook.com/jfvkitimat
Project Resource Centre (PRC)	Walk-in Project information centre located in Kitimat mall open Mon–Fri. In response to COVID-19 the PRC was closed to the public from March 16 until July 5. In addition to the PRC, the community is able to reach the Project via email info@jfvkitimat.com and phone 1-888-499-5358
Social Management Roundtable	2020 Q2 SMR meeting held virtually September 15-16, 2020 (four working groups: 32 different First Nations, municipalities, provincial agencies and community groups were represented during the session, with 85 participants). Q1 2020 SMR meeting held virtually May 5, 2020 (three working groups: 25 Project team and LNG Canada participants, and 45 community, First Nations and government participants).
SMR Participant Survey	Surveys are sent to SMR participants multiple times per year to enable feedback and continuous improvement. after the May 5 meeting for feedback on the SMR process and revisions to the SMR Terms of Reference.
Open Houses	JFJV Local Supplier Open House was held January 29 in Kitimat. No large group gatherings have been planned or implemented by the Project since early Q1 2020, aligned with public health officer COVID-19 guidance.
Municipal Project Updates	Project Updates are provided to District of Kitimat and City of Terrace staff and council at least annually with an opportunity for municipal leaders to ask the Project questions and provide feedback. 4 municipal updates were provided in 2020: <ul style="list-style-type: none"> • February 25, DOK, Kitimat (LNG Canada—JFJV—CGL) • March 3 City of Terrace, Terrace (LNG Canada—JFJV—CGL) • July 13, DOK, virtual (LNG Canada—JFJV) • July 30, City of Terrace, virtual (LNG Canada—JFJV)



5. Project Benefits

LNG Canada works with local municipalities, First Nations, local organizations, the local business community and area residents to ensure both direct and indirect benefits are realized by communities in proximity to the LNG plant site.

EMPLOYMENT IN KITIMAT

LNGC Canada, JFJV, subcontractors and sub-subcontractors are all required to follow a local hire first policy that evaluates qualified applicants and prioritizes hiring of Haisla members or their spouses, and local residents from the Kitimat-Terrace area including Kitselas and Kitsumkalum members. Next hiring priority is given to BC residents including Gitga'at, Gitxaala, Metlakatla and Lax Kw'alaams members, and then Canadians more broadly.



At the end of 2020 Q2 in Kitimat the Project employed a total of 2,296 workers including 215 Indigenous workers, 351 women, and 632 workers from the local area (all subsets of total workforce are mutually exclusive). The total employed workforce represents total persons reported employed by LNG Canada, its contractors, subcontractors and sub-subcontractors to support work activities in Kitimat and is composed of local workers and non-local workers both on and off rotation as well as newly hired workers who have not yet mobilized to site.

WORKFORCE DEVELOPMENT

LNG Canada has to date invested **over \$4M in workforce development programs**—meaningful trades training and development programs designed to increase the participation of local area residents, Indigenous communities and British Columbians. Our partnerships have supported training and applied work opportunities for BC residents including:

- over 1,300 apprentices
- 340 local area residents placed on construction jobs in NW BC
- 23 women hired onto the LNG Canada Project after receiving introductory trades training

Workforce Development programs were paused during 2020 Q2 due to COVID-19 restrictions limiting travel, group gatherings and use of classroom facilities. Efforts are underway to renew or kick off the following programs in 2021:

- Arx 'n Sparks Indigenous youth welding camps (Canadian Welding Bureau)
- LNG Canada Connect construction job placement program (BC Construction Association)
- Trades Training fund apprentice training support (BC Construction Association)
- YOUR PLACE women in trades program (Women Building Futures)
- LNG Canada Project Boot Camp construction site work readiness (JFJV)

MUNICIPAL CONTRIBUTIONS

In June 2020 LNG Canada paid **\$1.9 million in municipal property taxes** to the District of Kitimat (2019 tax year), three months ahead of the COVID-19 related tax payment deadline extension.



During the first half of 2020 alone, **over \$1.3M was contributed to DOK's Affordable Housing Fund** from open lodge operators in Kitimat and directly from the LNG Canada Project (paid by JFJV) for initial beds at Cedar Valley Lodge. DOK's Affordable Housing Fund levies a one-time tax contribution of \$500 per unit for workforce accommodations centre operators in Kitimat.

STRATEGIC SOCIAL INVESTMENTS

LNG Canada works closely with local municipalities, Indigenous communities, and non-profit groups to partner on sustainable programs that help address community needs, strengthen community resilience, and enhance CLISMP-related Project mitigation efforts where possible. Some examples of contributions made in 2020 spanning community health, housing, emergency response, utilities and education needs include:

- COVID-19 Community Response (details outlined in Section 3.2)
- City of Terrace municipal capacity funding (to help offset tax increase to residents)
 - Seasonal By-Law Program and Clean Parks initiative
 - Community Grant Writer
 - Highway Response Vehicle (commitment made in 2019)
- Kitimat Valley Housing Society Dementia Pilot Project (multi-year commitment)
- Tamitik Status of Women and Kitimat Community Development Centre to support ongoing delivery of anti-poverty support services for low income families at the Cornerstone (multi-year commitment)
- Ksan Housing Society Community Garden Program, food share and security fencing
- Kitimat Understanding the Environment Recycling Depot capacity funding
- Indspire scholarships and professional development for Indigenous students and educators
- STEM scholarships for CMSD 82 graduating high school students

6. Social Management Plans

As part of its monitoring requirements under the CLISMP, LNG Canada tracks and collects Project-specific data related to direct Project demand for and impacts to community infrastructure and services and collects community level data that measures impacts on infrastructure and services at the community level. The following summarizes Project actions to limit direct effects on community infrastructure and services, Project direct demands during Q1–Q2 2020, key trends and issues identified from community monitoring for the same period, and feedback captured during SMR meetings.

6.1. Housing and Accommodations (and Childcare)

The Project has implemented the following measures to manage Project-direct effects on housing and accommodations during 2020 Q2:

- No Living Out Allowances (LOA) provided to the workforce.
- Non-local workers follow a job rotation system (primarily 14 days on/7 days off) to encourage workers to maintain their home base, with charter flights provided from multiple hubs.
- Provide accommodations to non-local workers at open lodges Sitka Lodge, Annex 2 and Crossroads Lodge, as well as Project personnel travelling to Kitimat on business trips.

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- Build and operate Cedar Valley Lodge, the onsite Project workforce accommodation center.
- Actively discourage non-local job seekers from relocating to Kitimat or Terrace. Share information about charter hubs and rotation system.
- Limit the number of employees relocated to Kitimat with accompanying partner and/or children. Provide accommodations through company-provided housing.
- LNGC and JFJV work closely with the District of Kitimat (DOK) to consider any housing stock utilized for a small number of relocated direct employees and supervisors.

During 2020 Q1 and Q2, all non-local Project workers were accommodated at Sitka Lodge, Annex 2 (both operated by Civeo) or Crossroads Lodge (operated by Horizon North). The average Project occupancy for open lodges peaked at over 1,500 workers in February 2020, followed by a drop in April and a gradual ramp up to over 1,000 workers in June 2020. Kitimat open lodges also house workers from other Projects in the area as well as lodge operator staff.

In response to the COVID-19 pandemic, all open lodge facilities were required to reduce their maximum capacities and were operating below capacity for April, May, and June. While the Project was able to house all its non-local workers at open lodges during this period, due to reduced operating capacity, percent occupancy directly attributed to the Project could not be accurately assessed in Q2 2020. In July 2020, Cedar Valley Lodge began to house Project workers on site, with up to 1,500 workers anticipated by Fall 2020. As Cedar Valley Lodge construction is completed, capacity will gradually increase until a capacity of 4,500 beds is reached in 2021.

As of June 2020, a total of 40 accompanied employees had been relocated to Kitimat by the Project with company-provided housing. All indicators show that the Project has managed its direct demand on the local housing market by housing all its non-local workers in open lodges and not providing LOAs. No adverse effects on housing directly attributable to the Project have been observed. Additional Housing & Accommodations monitoring data and trends can be found in Appendix D of the report.

Since the CMHC 2019 Fall Survey (October 2019), estimated average rent rates continue to increase for both communities, particularly in Terrace. Estimated rental vacancy rates decreased in both communities since 2019 Q4, however Kitimat estimated vacancy rate still remains unusually high at 13.5%¹, while Terrace estimated vacancy is below 1%. Extreme weather shelters in both communities operated at capacity in Q1, while demand for other emergency shelters was higher in Terrace than in Kitimat. Both communities experienced a decrease in shelter use in 2020 Q2 due to COVID restrictions and some reduced demand during warmer weather months.

There remains a shortage of qualified Early Childhood Educator (ECE) staff in the region. In Kitimat, there are at least 30 infant toddlers (ages 0–3) consistently on the waitlist; likely to increase with higher demand anticipated (Hemmy 2020). The Kitimat Community Development Centre (CDC) is currently not able to expand services due to a combination of shortage of children ages 3-5 enrolling and lack of qualified staff.

¹ 13.5% Kitimat estimated rental vacancy rate is based on market availability rather than total rental housing stock. This excludes off-market units that may be in a state of disrepair or otherwise withheld by landlords.



Feedback from the SMR Housing Working Group session continues to stress that availability of affordable and social housing services in Kitimat and Terrace is insufficient to meet local needs.

- Housing service providers suggested the Project may wish to consider incorporating social and affordable housing metrics besides the BC Housing applicant registry e.g., Ksan Society indicated they have 500 people on two-year wait lists for programs that would not necessarily go through BC Housing.
- It was noted that while Emergency Shelters were operating below capacity in 2020 Q2, operations have been extended well beyond March 31 end of season as “COVID-19 expansion shelters”
- Tamitik Status of Women indicated available frontline staffing has been impacted by vulnerability of some workers to COVID-19 risk, which places additional stress and risk of burn out on remaining staff
- Participants commented on a continued lack of daytime services or shelters for homeless individuals in Terrace, which contributes to ongoing issues in the city’s downtown area

The City of Terrace indicated its housing needs assessment and population study will be completed by year end.

Several perceptions were discussed regarding population influx, including that individuals are moving to Terrace to get work with LNG Canada and that the Project is not taking steps to prevent this. The Project stressed that while it cannot prevent anybody moving within Canada, efforts are routinely taken to discourage job seekers from moving to the region. The Project team consistently communicates that there is no spot hiring, all jobs must be applied for online, directly through the website. However, the Project remains committed to a hire local first policy. If a qualified applicant has a physical address (not a PO box) they are considered local. The Project does its best to balance this tension.

It was clarified that all non-local workers mobilized to Kitimat to work at site are provided with accommodation at Kitimat open lodges or on site at Cedar Valley Lodge and that there are no situations where non-local workers performing work at site are ineligible to stay at workforce accommodation centres. This accommodation policy applies to LNGC and JFJV staff, contractors, subcontractors and sub-subcontractors. The cost of accommodation is built into the remuneration package as an incentive and is a contractual requirement.

The DOK highlighted that the LNG Canada project is only one factor in the growing regional demand for workers, with numerous projects and overall increase in economic activity in NW BC. Local businesses and the DOK itself have experienced challenges attracting, recruiting and relocating new employees to Kitimat, in part due to lack of available housing and inflated housing costs. It was shared that DOK is collaborating with Terrace and Prince Rupert on a Regional Workforce Attraction Initiative to help attract more workers to the area.

An update on provincial childcare initiatives was provided by MCFD, including several new funding streams. It was announced that Tamitik Status of Women has been successful in its application to provide 60 new childcare spaces in Kitimat at BC’s first 24-hour childcare service, delivered from a new building that will begin construction in 2021. It was suggested that wage/median income data could provide an indicator of local resident eligibility for childcare benefits. The DOK confirmed that \$500K of funding has been committed towards the new childcare facility from the Affordable Housing Fund.



The nature of “determining effective mitigation of direct adverse effects on housing and accommodations” was discussed, with consideration to how the Project team may wish to frame roundtable questions in future sessions. The Project team clarified that the intent is for roundtable discussion to provide feedback, insight and anecdotal information from the community as important context for the data that has been gathered. Data and feedback are captured in summary reports every three months and annually. The information is used by the Project to determine if adaptive management is required to existing mitigation strategies. Municipal Affairs and Housing clarified that MAH remains regularly engaged in CLISMP implementation and participation at SMR sessions and noted that their process of monitoring CLISMP implementation is distinct from the EAO’s compliance and enforcement process (regarding Project compliance with EAC condition #14).

The SMR identified a number of suggestions to help track and/or manage changes in housing and accommodations in the region (see Section 7, Table 3). No additional Project mitigation measures were identified at the SMR meeting.

6.2. Community Health

The Project has taken the following actions regarding Community Health to minimize direct impacts on local and regional health care services and to promote community cohesion:

- Medical services provided at Project site, Sitka Lodge, Annex 2, Cedar Valley Lodge
- Crossroads Lodge has an Occupational First Aid (OFA) person available day/night. ISOS Medical is there to support critical emergencies. All non-emergencies are directed to the Project site clinic.
- Communication and coordination with Kitimat General Hospital (KGH). Regular check in with Mills Memorial Hospital
- Workers at site receive training and must sign Workers Code of Conduct and complete Cultural Awareness Training. Consequence management is enforced.
- Implementation of Health & Medical Services Management Plans, including health promotion, worker wellness and infectious disease prevention and outbreak controls
- COVID-19: regular check-ins with Northern Health, Ministry of Health, WorkSafeBC, BC CDC to discuss efficacy of controls

The Project strives to have no impact to regional healthcare services and infrastructure, except in the case of emergencies which cannot be predicted or avoided, such as cardiac arrest. Managing direct effects on community health also considers workforce activities and behaviours to promote healthy living and working environments, and community cohesion.

In 2020 Q2 the Project recorded seven occupational and 18 non-occupational injuries/illnesses requiring treatment in local hospitals (compared to eight occupational and 28 non-occupational injuries/illnesses in 2020 Q1). There were 91 notifications to Northern Health for occurrence of communicable illnesses/diseases, primarily related to COVID-19, including daily briefings (compared to 43 notifications in 2020 Q1). Other incidents were addressed by the Project’s first aid and medical staff.



In both Q1 and Q2 the Project had limited direct demand on health facilities, with workplace-related medical incidents accounting for roughly 1% of the ER visits at KGH. The overall decrease in KGH and MMH ER visits in 2020 Q1 & Q2 compared to 2019 Q1 & Q2 was consistent with other Northern Health services (in response to COVID-19 measures). During 2020 Q1 and Q2, the higher proportion of unscheduled visits to KGH in Kitimat compared to MMH in Terrace, as well as the increase in the proportion of reported patients from outside the Northern Health Authority suggest that some Project workers may be visiting the KGH emergency room for non-workplace related issues. Additional community health monitoring trends can be found in Appendix D of the report. Eleven health concerns were received in March and April 2020, all related to COVID-19. Regular check-in calls were conducted with Northern Health, Ministry of Health, WorkSafeBC and BC CDC to review efficacy of controls for COVID-19.

Induced effects resulting from regional economic development continue to affect some community health determinants, particularly with respect to a scarcity of affordable housing. This is evidenced by the on-going high demand for emergency and temporary housing, despite lower nights full and bed-stays due to reduced capacity in response to COVID-19. As indicated by RCMP total incidents², crime in both communities increased in Q1 (+19% in Kitimat and +10% in Terrace) and decreased in Q2 (-10% in Kitimat and -35% in Terrace). This decrease is likely attributed to the general slowdown of economic activity in response to COVID-19.

Feedback from the SMR community health working group discussion considered the Project COVID-19 response and additional considerations for protecting and supporting the workforce and community.

- The Project confirmed that workers who are required to self-isolate, but who are not able to safely do so at home, will be supported to stay at the isolation wing of either Crossroads Lodge or Cedar Valley Lodge.
- The Project clarified that its policy is to ensure job security and compensation for workers who are directly impacted by COVID-19 or under medical direction to self-isolate, but this policy does not extend to indirect situations e.g., obligations to care for a family member.
- It was recommended that the Project incorporate COVID-19 vulnerability into site orientation training, as many workers may not be aware of heightened vulnerabilities in small, remote Indigenous communities.
- Northern Health commended the good work being done by the Project and open lodge operators to manage COVID-19 and encouraged more emphasis on mental health, the importance of recreational activity programming as well as harm reduction strategies such as free availability of condoms.

The Project was asked to share other efforts taken to protect vulnerable populations in the workforce and in the community. The Worker Code of Conduct was discussed as a key mitigation. There is zero tolerance for harassment and discrimination. Violations are taken seriously and subject to consequence management. The Project highlighted cultural awareness efforts during site orientation and through ongoing initiatives including efforts to develop gender and cultural safety programs at Cedar Valley Lodge. In addition, several empowerment and support initiatives funded by the Project were mentioned spanning food security, education, employment and entrepreneurship.

² For reporting purposes, total incidents excludes false alarms, mental health, abandoned calls.



Feedback from service providers suggests more intense drugs are being used by clients. BC Ambulance provided insight into the nature of EMS calls which are broken into: Urgent, Non-Urgent, Overdoses, and Poisoning. Kitimat urgent calls have increased in 2020.

The Project was asked to share what monitoring or support efforts have been taken to address the induced increase in vagrancy and related behaviours in downtown Terrace that are concerning to residents. Some examples were shared of increased and ongoing Project engagement with Terrace staff and council and increased connections to several service organizations to be closer to these broader issues and to understand how the Project can support key programs. Discussions are underway with COT on potential metrics that could be captured. It was suggested that Northern Health's Intensive Crisis Management Team (ICMT) may have relevant data that could be incorporated into community health monitoring efforts and it was again noted that no day activities are currently available for homeless individuals.

Kitselas First Nation reflected that 2020 has been a year of heightened anxiety and stress. The community recently held a milestone risk review workshop as a follow up to the 2019 Rapid Health Impact Assessment. It was suggested there is still an opportunity for Ministry of Health to consider a forward-looking regional assessment of community health, safety, and well-being. The region is continuing to change and grow, and LNG Canada is just one piece of the puzzle.

Anecdotal indication of increased bear sightings near communities was discussed with consideration for traditional knowledge and what these new animal behavioural patterns may be telling us. The Project was encouraged to consider climate change in the context of community health. Discussion regarding air quality monitoring was also raised with respect to potential impacts of increased traffic. The Project clarified that environmental impacts are not in scope for the CLISMP as these are managed through separate plans and processes. The Project offered to provide an air quality summary note as a follow up.

The SMR identified a number of recommendations to help track and/or manage changes in community health in the region (see Section 7, Table 3). No additional Project mitigation measures were identified in the SMR meeting.

6.3. Traffic

The Project has implemented the following mitigation measures to manage Project-direct effects on road and air traffic:

- Implement Traffic Management Plan (developed in consultation with DOK and MOTI) including consideration for offsite motor vehicle incidents
- Majority of heavy, oversized deliveries of equipment and materials by marine transport
- Shuttle service provided to and from site with local pick up points in Terrace and Kitimat, including the Northwest Regional Airport, Sitka Lodge, Sitka Annex 2 and Crossroads Lodge
- Local residents are required to park their personal vehicles at specific Park 'n Ride locations in Kitimat, Kitamaat Village and Terrace and take shuttles to and from the worksite
- The Project continues to work with DOK to minimize local traffic impacts, including parking
- In-vehicle monitoring systems with zero-tolerance Project policy for speeding in Project vehicles
- Charter flight service in place since 2019 Q4
- Ongoing logistics planning and coordination with Northwest Regional Airport, MOTI, DOK

Joint venture companies



In 2020 Q1 and Q2, the Project continued to limit its impact on roadway traffic volumes by transporting local and non-local workers by shuttle bus. There were increases in the number of workers being transported between Project construction sites and local Park 'n Ride lots in Kitimat and Terrace. By enforcing shuttle transit for local workers, the Project limited the use of personal vehicles on local roads, with only a small proportion of the increased traffic directly attributable to the transportation of Project workers (estimated at approximately 0.4% of total traffic volume³ in Q1 and 0.3% in Q2). The Project reported five transport-related incidents or near misses in 2020 Q2, and four traffic related complaints/concerns from the public (compared to 11 incidents/near misses and seven complaints/concerns in Q1).

An 84% YOY decrease⁴ in 2020 Q2 air traffic through YXT was observed, with the decline attributable to the COVID-19 pandemic (following a 4% YOY decrease in 2020 Q1). The Project directly accounting for approximately 18.6% of commercial passengers transiting through the airport in Q2 (compared to 8.5% in Q1). The use of commercial flights by the Project levelled off in June 2020, while there was a nearly three-fold increase in Project workers transported by charter carriers (Appendix C). The observed increase in air traffic over the second quarter can primarily be attributed to industrial and medical traffic through the airport (Bogstie 2020). Complete traffic monitoring trends can be found in Appendix D. During the working group session, the Project shared an update on implementation of its Traffic Management Plan and the conclusion of the Traffic Impact Study with a commitment to follow up and confirm if it is possible to distribute the study to working group members (in addition to DOK and MOTI). Kitimat RCMP requested that the Project share traffic volume data that is currently shared routinely with MOTI and DOK. A current overview of September Charter Flight Activity was also provided, with seven flights per week (up to 600-700 workers in and out) using four hubs: Vancouver, Kelowna, Calgary and Edmonton. Charter hubs and flights will continue to increase to meet workforce demands with up to 21 weekly Charter flights anticipated during peak construction in 2022.

MOTI shared an update regarding road upgrades 14 km south of Terrace to add a deceleration and turning lane, which will commence shortly.

Terrace Fire Department provided an update on efforts underway to coordinate a multi-stakeholder motor vehicle incident scenario exercise. This will include a scenario that considers a potential Project shuttle bus incident in winter conditions. First responders from Humboldt, SK will be invited to the session to share learning. LNG Canada has committed to sponsoring the planning exercise.

Questions and concerns raised during the traffic working group discussion included Project use of rail and the ongoing issue of workers parking outside of approved areas and increasing burden on by-law enforcement and emergency responders (e.g., blocked egress). It was clarified that the Project will not be using rail during construction, but this will become a more pertinent consideration during Operations where rail may be used to transport condensate. The SMR identified a number of suggestions to help track and/or manage changes in traffic in the region (see Section 7, Table 3). No additional Project mitigation measures were identified in the SMR meeting.

³ Based on June 2020 Monthly Average Weekday Traffic on Highway 37.

⁴ In response to COVID-19 travel restrictions, business shut-downs and limits on group gatherings.



6.4. Emergency Response

The Project has implemented the following mitigation measures to manage Project-direct effects on emergency response services:

- Site Emergency Response Plans are in place, developed with inputs from KFAS.
- Primary onsite emergency response managed with onsite personnel and equipment.
- Safer Together Program reinforces a safety mindset that is based on 4 pillars with a strong foundation of caring for people.
- All site personnel complete Worker's Code of Conduct and Cultural Awareness Training.
- Sitka Lodge has contracted security services on-site, and is located 5-min away from the Kitimat RCMP detachment.

In 2020 Q2, the Project recorded six incidents requiring ambulance service calls and one RCMP service call to meet Project workforce needs. Additionally, there was only one RCMP call in Q1. No fire department service calls or medical evacuations to Project worker locations were required. It was noted that during the SMR meeting, ambulance service call data presented was under-represented. During 2020 Q2, nearly 100% of workers signed off on the Worker's Code of Conduct. On average, 81% of workers were reported to have completed cultural awareness training during 2020 Q2⁵. Newly onboarded workers have 30 days to complete cultural awareness training, hence the percent completion of this training reported for any given month may be less than 100%.

In 2020 Q1, there was an increase in total call volume for most emergency services in Kitimat and Terrace, with the exception of the Terrace Fire Department, which experienced a significant drop in calls, mostly attributed to changes in dispatch coding. A substantial decrease in emergency response service calls was experienced in both Kitimat and Terrace in 2020 Q2 compared with 2019 Q2, with less than 2% of the Kitimat calls⁶ directly attributable to the Project.

In 2020 Q2 RCMP calls for both communities decreased substantially, with the decline likely attributable to the COVID-19 pandemic. The number of criminal code/ federal statute offences in Kitimat was 33% higher in Q1 2020, compared to Q1 2019, while there was a 6% decrease in criminal incidents in 2020 Q2 compared to 2019. In Terrace, criminal code/federal statute offences increased 2% in Q1 2020, compared to the same period in 2019, but declined 35% in 2020 Q2, compared to a year earlier. Additional emergency response monitoring data and trends can be found in Appendix D.

⁵ Cultural Awareness Training can be completed within 30 days of attending Orientation as class size is capped at 30 people. Reduced training took place in May and June with smaller classes to respect social distancing. A plan is in place to ensure all workers are trained.

⁶ Fire and medical-related calls to the Kitimat Fire and Ambulance Services (KFAS).



During the working group session, ambulance service calls were discussed. Terrace Fire Department provided some insight to 2020 changes in call management practices and clarified that the city only responds to Code 3 calls or requests from BC EHS for assistance. It was clarified that this change has not been perceived to be a decrease in service. BCEHS provided an update on resourcing strategy which will result in more full-time roles, with more resources deployed to Terrace over the next six months. KFAS indicated that calls to lodges in Kitimat have increased including response calls to alarms and false alarms; however, this was recognized to be normal growth in demand associated with temporary population growth experienced with past projects.

Responders observed an overall increase in community mental health issues in 2020. It was requested that the next SMR meeting include a focused discussion on mental health trends and observations. The Project team clarified that first responders will be invited to join the discussion during the Community Health working group. It was recommended that 911 calls and mental health calls be represented as a standalone metric in community monitoring data.

Gitgaat First Nation asked if the Project team has access to marine emergency response data to help assess the increase in volume of recreational and other marine users in Hartley Bay (originally raised during the Community Health session and seen as a risk to community, particularly during COVID-19 lockdown).

The SMR identified a number of recommendations to help track and/or manage changes in emergency response demand in the region (see Section 7, Table 3). No additional Project mitigation measures were identified in the SMR meeting.

6.5. Community Amenities, Education and Utilities

The Project has implemented the following measures to manage Project-direct effects on community amenities, utilities and education during 2020 Q2:

- Limit the number of employees relocated to Kitimat with accompanying family
- Non-local workforce hired on unaccompanied basis and provided accommodation at workforce accommodation centres. No LOAs paid.
- All workers required to complete code of conduct and cultural awareness training
- Recreational facilities included at all workforce accommodation centres
- Implement waste management plan (solid waste, wastewater), send waste streams to approved facilities, avoiding use of municipal landfill
- Make Cedar Valley Lodge self-sufficient (to the extent practicable) with respect to potable water and wastewater treatment services, avoiding additional service demands on municipal water and sewer services
- Provide stakeholders with information on anticipated changes in resident populations attributable to the Project



6.5.1. Amenities

In 2020 Q1, there was an overall decrease in total facility/program attendance in Kitimat (Riverlodge, Sam Lindsay Aquatic Centre and Tamitik Sports Complex) and Terrace (Terrace Aquatic Centre and Sportsplex). Community facilities were closed for the majority of 2020 Q2 in response to the pandemic. In 2020 Q1 & Q2, the CoT Leisure Services department experienced loss of qualified staff to industry jobs and anticipates severe losses in amenities revenue due to regulations put forward on sporting group and public events (Clarke 2020). Municipal campgrounds were closed for May and part of June 2020, resulting in a 50% decrease in campers between 2019 Q2 and 2020 Q2. The Lakelse Lake Provincial Park saw a 14% YOY increase in campers in June 2020. Notably the provincial COVID-19 re-start plan included the June re-opening of Provincial campgrounds, with use reserved exclusively for BC residents. Additional amenities monitoring data can be found in Appendix D. The availability of recreation facilities at Sitka Lodge and Crossroads Lodge, where the majority of non-local Project workers were lodged during 2020 Q1 & Q2, has minimized Project-related demand for community fitness facilities.

Kitimat stakeholders provided feedback that fishing on the Kitimat river was observed to be extremely busy during May and June 2020, with a visible presence of users from outside the area. It was noted that the Skeena River was closed for fishing in Terrace during the same period. The Project received some complaints in Q2 regarding a perception of workers littering on the riverbanks, and while this could not be verified, efforts were taken to reinforce Code of Conduct expectations with workers. The Project sponsored and participated in multiple river clean up events in August and September, involving volunteers from the site workforce.

During the working group session, the DOK provided an update on the Northwest BC Workforce Resident Attraction Initiative which includes Prince Rupert, Terrace and Kitimat, and which will soon be engaging businesses in the area. The initiative is intended to support smaller businesses that may be growing or otherwise losing staff to well-paying jobs with larger major projects in the region (LNG Canada, Port of Prince Rupert expansion, CGL, mine expansions). There is a need for more people to staff businesses and for increased marketing of the region as a whole, similar to efforts on Vancouver Island or the Okanagan. The initiative would like LNG Canada to help champion this effort.

A concern was voiced regarding the potential draw on Kitimat's limited taxi service at the Project site (Cedar Valley Lodge), which would in turn decrease taxi availability for local residents. The Project team indicated it welcomes any suggestions for how to track and monitor data around taxi use.

6.5.2. Education

In 2020 Q1 & Q2, Coast Mountain School District⁷ (CMSD) reported no large shifts in student enrolment, with enrolment changes reflecting natural population change. Projections in future CMSD headcount indicate relatively stable K-12 student enrolment over the next 10 years (Ministry of Education 2020). No new data was available from St. Anthony's Catholic School in Kitimat for the reporting period, and there was no noticeable change in enrolment between 2018/19 and 2019/20. A limited number of Project staff with school aged children have moved into the region with limited corresponding demand for K-12 education services.

⁷ School District 82 (Coast Mountains) includes K-12 schools in Kitimat, Terrace, Kitwanga, New Hazelton, Hazelton, South Hazelton, and Stewart.



UNBC Northwest Campus experienced a 21% decrease in enrollment in the 2020 winter semester and 75% decline in enrollment in the summer semester, compared to 2019. Indicative of effects of COVID—19 being felt broadly by post-secondary institutions, courses will be delivered online for the fall 2020 semester.

During the working group session, Coast Mountain College shared that September classes have shifted primarily to a distributed learning model. Kitimat Valley Education Society indicated it is examining the feasibility of opening a Northwest Marine and Employment Training Center to provide training and employment opportunities. LNG Canada has been involved in an advisory capacity. Additional education monitoring data can be found in Appendix D.

6.5.3. Utilities

During Q1 and Q2 2020, waste generated at the Project site was sent to landfills outside of Kitimat's municipal waste system. The following waste volumes were reported for 2020 Q2: 50,980 litres of hazardous liquids to Terrapure in Prince George and Forceman Ridge Landfill in RDKS; 191,878 yd³ (146,595 m³) of hazardous solids to Terrapure and Forceman Ridge Landfill; and 12,464 m³ of non-hazardous solids to Forceman Ridge Landfill. These volumes do not include waste generated through demolition and decontamination scopes of work at site. Efforts are underway to reconcile a complete profile of waste from site disposed to approved facilities in 2020. The Project will begin to monitor influent and effluent flow rates from the water treatment system of Cedar Valley Lodge in 2020 Q3, coinciding with the start up of CVL operations.

Forceman Ridge waste disposal site is located in the Regional District of Kitimat Stikine and serves a population of approximately 20,000 people, including the City of Terrace. The facility, which is permitted to receive industrial waste, has a total capacity of over 1.5 million m³. In 2020 Q1 & Q2, there was a total of 7,929 tonnes⁸ of waste disposed at the Forceman Ridge Landfill, a 63% increase compared to 2019 Q1 & Q2. Industrial waste disposed⁹ also increased five-fold to 3,190 tonnes during this period. As a result of increased waste volumes received over the past year, the projected facility lifespan of 100 years (as of 2018) was recently adjusted downwards to 95 years (as of 2020). The Project is working directly with Forceman Ridge to plan for future anticipated waste volumes with consideration for future capacity.

The potable water demand, wastewater flow, and waste disposal in Terrace have all increased between 2019 Q1 & Q2 and 2020 Q1 & Q2. 2020 peak day demand remains lower than the 2018 peak day demand. 2020 Q1 & Q2 utilities data (water, sewage) was not available from DoK, however, it is expected that the Project has indirectly contributed to an increase in demand through potable water consumption and wastewater disposal by Sitka Lodge, Annex 2, and Crossroads Lodge. The Project continues to work with open lodge providers to understand the additional demand on Kitimat's municipal waste system. Additional utilities monitoring data can be found in Appendix D.

The SMR identified a number of a recommendations to help track and/or manage changes in education, amenities or utilities demand in the region (see Section 7, Table 3). No additional Project mitigation measures were identified in the SMR meeting.

⁸ Total waste disposed does not include residential/industrial septage, clean wood, organics, or soil (Haley 2020).

⁹ Industrial waste disposed primarily consist of landfilled materials from out-of-service area users (mainly from the Kitimat area) (Lavoie 2020).



7. SMR Summary and Actions

Participants representing 22 stakeholder groups and six First Nations participated in LNG Canada's 2020 Q2 virtual Social Management Roundtable meetings to review monitoring data, ask questions, and provide feedback and insights. Several provincial agencies participating at the roundtable also contributed to areas of community discussion above and beyond what the LNG Canada Project might be able to directly address. Table 3 summarizes action items for the LNG Canada Project team and SMR participants that were addressed in the last quarterly reporting cycle and now closed out, those that remain open, and new items identified during meetings taking place September 15–16. Items identified as closed will be removed from tracking table for future reference. Table 4 outlines a list of follow up discussion items for the BC Government.

Table 3 Status Update on SMR Working Group Action Items

#	Working Group	Responsible Party	Action	Status
2020-Q2-1	Housing & Accommodations	LNG Canada Project Team	Incorporate available data on demand for social housing services which do not use BC Housing Applicant registry	NEW 10/16/20
2020-Q2-2	Housing & Accommodations	LNG Canada Project Team	Consider collecting data on median income or wages as eligibility criteria for childcare benefits	NEW 10/16/20
2020-Q2-3	Housing & Accommodations	LNG Canada Project Team	Re-phrase roundtable discussion question regarding assessment of mitigation effectiveness	NEW 10/16/20
2019-Q2-9	Community Health	FNHA (BC First Nations Health Authority) or Northern Health	Follow up on public health linkages between Northern Health and First Nations Health Authority.	Open 10/16/20. Details to be provided by FNHA or NHA (Northern Health Authority) at next SMR meeting.
2019-Q3-17	Community Health	Northern Health	Consider providing data from mobile unit service to support SMR monitoring needs	Open 10/16/20. Request for Mobile unit monitoring data under consideration by Northern Health.
2019-Q4-4	Community Health	LNG Canada Project Team	Incorporate workforce multiplier projections from District of Kitimat & City of Terrace	Closed 08/27/20. Noted. Workforce multipliers will be considered in ongoing economic benefit analysis efforts for inclusion in CLISMP Annual Report.



Table 3 Status Update on SMR Working Group Action Items

#	Working Group	Responsible Party	Action	Status
2019-Q4-5	Community Health	Northern Health	Clarify where Project-level planning intersects with provincial and community-level Hazard, Risk and Vulnerability Analysis (i.e., epidemics).	Open 10/16/20. NHA will provide an overview at upcoming SMR meeting.
2019-Q4-6	Community Health	Kermode Friendship Society	Share reports with SMR participants regarding vulnerable populations	Closed 08/27/20. Materials received by Project for consideration and distributed to SMR participants
2020-Q2-4	Community Health	LNG Canada Project Team	Suggestion to incorporate COVID-19 vulnerability into site orientation training, as many workers may not be aware of heightened vulnerabilities in remote Indigenous communities	NEW 10/16/20
2020-Q2-5	Community Health	LNG Canada Project Team	Provide information on worker wellness programs (mental health, sexual health, recreation)	NEW 10/16/20
2020-Q2-6	Community Health	Northern Health	Consider providing Intensive Crisis Management Team data to assess changes in service demand	NEW 10/16/20
2020-Q2-7	Community Health	LNG Canada Project Team	Follow up to provide air quality summary note	NEW 10/16/20
2020-Q2-8	Community Health	LNG Canada Project Team	Ensure emergency responders invited to follow up discussion on changing community mental health needs at next SMR meeting	NEW 10/16/20
2019-Q2-4	Traffic & Emergency Response	RCMP and Fire Services	Re-opened action from Q2. Provide LNG Canada Project team with available information on traffic incidents by location.	Open 10/16/20. RCMP indicated that some locational traffic data available from the Traffic Services Information Tool (TSMIT) database. Request made to obtain TSMIT data.



Table 3 Status Update on SMR Working Group Action Items

#	Working Group	Responsible Party	Action	Status
2019-Q2-5	Traffic & Emergency Response	DOK (District of Kitimat) Engineering Services	Re-opened action from Q2. Recommendation to DOK to assess need for traffic light at Nalabila/Hwy 37 intersection	Open 10/16/20. DOK has secured funding for a Traffic Impact Assessment. Results will be available in several months. Action to remain open in the meantime.
2019-Q3-22	Traffic & Emergency Response	LNG Canada Project Team	Capture learnings from recent efforts made to work with DOK around mitigating parking and local traffic impacts	Closed 08/27/20. Summary of parking strategies in first year of construction provided below
2019-Q3-23	Traffic & Emergency Response	LNG Canada Project Team	Recommendation to include Project road and air traffic projections in the data	Closed 08/27/20. Project will regularly incorporate available road and air traffic projections in SMR meetings and reports
2019-Q4-7	Traffic & Emergency Response	MOTI (Ministry of Transportation and Infrastructure)	Consider adding mileage markers along Highway 37	Closed 08/27/20. MOTI confirms an inspection was carried out to ensure all markers are in place.
2019-Q4-8	Traffic & Emergency Response	BC Ambulance	Capture hospital transfers in ambulance services data	Closed 08/27/20. Hospital transfer data included in 2020 1Q/2Q report
2020-Q1-3	Traffic & Emergency Response	LNG Canada Project Team	Provide scenarios and projected charter flight numbers for 2020	Closed 08/27/20. (related to Action 2019-Q3-23). Project will regularly incorporate road and air traffic projections in SMR meetings and reports.
2020-Q2-9	Traffic & Emergency Response	LNG Canada Project Team	Confirm if traffic impact study can be distributed to Working Group participants	NEW 10/16/20
2020-Q2-10	Traffic & Emergency Response	LNG Canada Project Team	Assess availability of marine emergency response data around Hartley Bay	NEW 10/16/20
2020-Q2-11	Traffic & Emergency Response	LNG Canada Project Team	Represent mental health calls as a subset of 911 calls in community monitoring	NEW 10/16/20



Table 3 Status Update on SMR Working Group Action Items

#	Working Group	Responsible Party	Action	Status
2019-Q4-12	Community Amenities, Utilities and Education	LNG Canada Project Team	Assess City of Terrace Parks Department monitoring data as proxy indicators for other impacts e.g., needle/human waste cleanup	Closed 08/27/20 Quantitative data related to park use impacts is not collected by COT
2019-Q4-14	Community Amenities, Utilities and Education	LNG Canada Project Team	Support City of Terrace in development of municipal capacity metrics	Open 10/16/20 Project team working with the City of Terrace planning and public works to identify selected metrics

2019-Q3-23 Summary of Parking Strategies Deployed in Kitimat and Terrace in 2019

LNG Canada, JFJV and open lodge operators continue to work together with the District of Kitimat, Haisla Nation and Northwest Regional Airport on solutions to ensure local traffic and parking impacts are mitigated. This involves sharing information, addressing concerns, and responding with specific mitigations. Some examples of efforts deployed in 2019 include:

- District of Kitimat increased signage and modified by-law enforcement on Loganberry (in front of Sitka lodge) to mitigate street parking issues along with increased signage in all DOK parking lots to prevent overnight parking in unauthorized locations.
- Lodge operators have enforced parking restrictions with guests and encouraged use of shuttles.
- The Project established park and ride lot use by local Kitimat, Kitamaat Village and Terrace workers and issued short or long-term use permits. Lots are currently located at Mountainview and Konigas in Kitimat, in Kitamaat Village and at the Terrace airport. JFJV is currently working with the DOK to find an alternate location to replace the Mountainview location.
- Communications cascaded to the workforce to ensure compliance with parking rules, i.e., vehicles must only be parked in designated parking areas, notification of winter parking rules.
- Ongoing communication and collaboration with other project partners, such as BC Hydro and Coast Gas Link, on parking mitigation measures.

Table 4 Follow Up Items for BC Government

SMR Working Group	Items for Follow up Discussion at Next SMR Meeting
Community Health	<ul style="list-style-type: none"> • Ministry of Health to consider a forward-looking regional assessment of community health, safety and well-being.

Joint venture companies



7.1. Next SMR Meeting

The next SMR meeting will take place virtually on December 8, 2020 for the 2020 Q3 monitoring period, recognizing that travel and social distancing constraints imposed by the COVID-19 pandemic continues to prohibit the opportunity for a face-to-face meeting on this occasion.



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Appendix A INFORMATION PROVIDERS

SMP	Organization	Information Provided
Housing & Accommodations	Hotel/ motels (STR Global)	Regional hotel/ motel occupancy rates (monthly)
	Airbnb postings	Range of units available (quarterly) and occupancy rates (daily)
	BC Northern Board of Real Estate (BCNREB); Multiple Listing Service; realtors	Average Residential Real Estate Prices and Units Sold (condos, houses) (monthly)
	Kitimat apartment landlords (Hillcrest, Kitimat Apartments, Oceanview, Kuldo Suites, Midtown Apartments); Facebook & Kijiji postings	Rental accommodations vacancy rate and average rental cost (monthly)
	Sitka Lodge and Annex 2 (Civeo) Crossroads Lodge (Horizon North)	Open lodge occupancy rate (monthly) Maximum capacity (monthly)
	Tamitik Status of Women (TSW); Ksan Society.	% of nights full/ average shelter occupancy (monthly) # of bed-stays and # of turn-aways (monthly)
	BC Housing; M'akola Housing Society.	Affordable housing units occupied (monthly) Wait lists for affordable/supportive housing (monthly) Social housing unit count (annual)
Traffic	Northwest Regional Airport (YXT)	Terminal Volume (Commercial Passengers) (monthly)
	BC MOTI	Monthly Average Weekday Traffic (MAWDT) (monthly)
	Insurance Corporation of BC (ICBC)	Traffic Collisions Reported (monthly)
Emergency Response	RCMP North District	Total calls for service (monthly) Number of founded criminal incidents by crime type (monthly)
	Kitimat Fire and Ambulance Services (KFAS); Terrace Fire Department, Thornhill Fire Department	Number of firefighter response incidents (monthly)
	KFAS; BCEHS	Number of ambulance/ medical related incidents (monthly)
	Statistics Canada	Crime rate (annual) Criminal Code of Canada (CCC) offences (annual)
Community Amenities	District of Kitimat (DOK); City of Terrace (COT)	Community program attendance (monthly) Recreation facility attendance and hours of operation (monthly) Fitness program attendance (monthly)

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SMP	Organization	Information Provided
Education	Kitimat Community Development Centre (CDC); Haisla Nation Council	Childcare registration, licensed spaces, and waitlist (quarterly)
	Coast Mountain School District #82 (CMSD); Independent Schools	Student enrolment (annual) Number of educators, including teachers, administrative and supporting staff (annual)
	University of Northern British Columbia (UNBC); Coast Mountain College (CMTN); Kitimaat Valley Education Society (non-profit; KVES)	Student enrolment (annual or by semester)
Utilities	DOK; COT	Potable water and sewage services average daily demand, peak day demand, and rated capacity (annual)
	Regional District of Kitimat-Stikine (RDKS)	Landfill demand, lifespan, and estimated population served (annual)



Appendix B 2020 Q2 SMR WORKING GROUP PARTICIPANTS

Community	Organization	Attendees
Housing and Accommodations Working Group		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Brian Hutchinson (Communications), Ilyas Begaliyev (Real Estate), Tariro Mpoperi (HR), Trevor Feduniak (Construction), Rebecca French (Real Estate), Morganne Williams (ER)
	JFJV	Daria Hasselmann (Community Impacts), Gaelle Eizlini, Berni Molz (Construction), Shawn Simms
	Civeo	Carson Engele, Grant Pelletier, Jessica Grondin, Tom Davis
	Horizon North	Andrew Desilets
	Support	Frank Bohlken (Stantec), Lucy Shen (Stantec), Jennifer Davies (Earncliffe), Rachel Klassen (Earncliffe)
First Nations	Haisla	Lucille Harms
	Gitga'at	Christa Mueter
	Gitxaala	James Herbert
	Kitsumkalum	Nicole Wallace, Rina Gemeinhardt
	Kitseles	Chris Apps, Janis Shandro
District of Kitimat	DOK	Angie Lucas, Warren Waycheshen, Mike Dewar, Krysten Hogan
	KCSS	Cyndi McIntosh
	Tamitik Status of Women	Michelle Martins
	Kitimat Community Development Centre	Marianne Hemmy
City of Terrace	City of Terrace	David Block, Deklan Corstanje
	Ksan House Society (Victim Services)	Amanda Owens, Elaine McGillivray, Lisa Schmidt
	Terrace Chamber of Commerce	Michelle Taylor
	Kermode Friendship Society	Calvin Albright



Community	Organization	Attendees
Housing and Accommodations Working Group		
Province of BC	LNGC Implementation Secretariat	Rosanna Breidel, Ben Vander Steen
	Northern Health	Clare Hart
	Municipal Affairs & Housing	Jessica Brooks, Jennifer Hill, Carol Ann Hudson
	Ministry of Social Dev. and Poverty Reduction	Norris Miller
	Ministry of Children & Family Development	Michelle Kirby
	BC Housing	Valerie Hare
Community Health Working Group		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Trevor Feduniak (Construction), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Brian Hutchinson (Communications), Shalin Kashyap (Corporate Security), Stephanie Mah (Health), Denaige McDonnell (Health), Morganne Williams (ER)
	JFJV	Daria Hasselmann (Community Impacts), Berni Molz (Construction), Gaele Eizlini, Dennis Earman (HSE)
	Support	Frank Bohlken (Stantec), Lucy Shen (Stantec), Jennifer Davies (Earnscliffe), Rachel Klassen (Earnscliffe)
First Nations	Haisla	Lucille Harms
	Gitga'at	Christa Meuter
	Kitselas	Chris Apps, Janis Shandro
	Metlakatla	Anne Osborne
	Gitxaala	James Herbert
	Kitsumkalum	Nicole Wallace, Rina Gemeinhardt, Charlene Webb
Terrace	City of Terrace	Deklan Corstanje
	Ksan Society	Amanda Owens, Elaine McGillivray, Lisa Schmidt
Province of BC	LNGC Implementation Secretariat	Rosanna Breidel, Ben Vander Steen
	Northern Health	Sally Western, Jonathan Cooper, Raina Fumerton
	FN Health Authority	Corrina Miller, Becky Rowe
	Municipal Affairs & Housing	Jessica Brooks, Jennifer Hill, Kris Nichols
	Ministry of Social Dev. and Poverty Reduction	Norris Miller
	Ministry of Health	Cara Lachmuth
	BC Emergency Services	Andre Ledoux



Community	Organization	Attendees
Traffic and Emergency Response Working Group		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Trevor Feduniak (Construction), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Brian Hutchinson (Communications), Morag Volek (Logistics), Daren Parsons (HSSE), Denaige McDonnell (Health), Morganne Williams (ER)
	JFJV	Daria Hasselmann (Community Impacts), Isaac Thompson (Health), Gaelle Eizlini, Berni Molz (Construction), Dennis Earman (HSE)
	Support	Frank Bohlken (Stantec), Lucy Shen (Stantec), Jennifer Davies (Earnscliffe), Rachel Klassen (Earnscliffe)
First Nations	Haisla	Lucille Harms
	Gitxaala	James Hebert
	Kitsumkalum	Nicole Wallace, Charlene Webb
	Kitselas	Chris Apps, Janis Shandro
District of Kitimat	DOK	Angie Lucas, Warren Waycheshen, Alex Ramos-Espinoza
	DOK/ KFAS	Trent Bossence
	Kitimat Community Services Society (Victim Services)	Cyndi McIntosh
City of Terrace	City of Terrace	Deklan Corstanje, Dave Jephson
Province of BC	LNGC Implementation Secretariat	Rosanna Breidel, Ben Vander Steen
	BC Emergency Services	Andre Ledoux
	ICBC	Doug MacDonald
	WorkSafeBC	Larry Joice
	Ministry of Social Dev. and Poverty Reduction	Norris Miller
	Municipal Affairs & Housing	Chris Nichols, Jessica Brooks, Jennifer Hill
	MOTI	Dan Baker, Nathan Voogd, Corrin Peet
RCMP	Graham Morgan	
Community Amenities, Education and Utilities Working Group		
Project Team	LNGC	Nina Arvanitidis (Social Performance), Jenn Prochera (Community Relations), Hope Regimbald (Indigenous Relations), Morganne Williams (ER), Pam Staples (Waste Mgmt)
	JFJV	Daria Hasselmann (Community Impacts), Berni Molz (Construction), Gaelle Eizlini
	Support	Frank Bohlken (Stantec), Lucy Shen (Stantec), Jennifer Davies (Earnscliffe), Rachel Klassen (Earnscliffe)

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Community	Organization	Attendees
Community Amenities, Education and Utilities Working Group		
District of Kitimat	DOK	Mike Dewar
	Kitimat Chamber of Commerce	Laurel D'Andrea
	Kitimat Valley Education Society	Carrie McKay, Jennifer Lewis
City of Terrace	City of Terrace	Deklan Corstanje
	Coast Mountain College	Sarah Zimmerman
	Terrace Chamber of Commerce	Michelle Taylor
	Coast Mountain School District	Geraldine Lawler
Province of BC	LNGC Implementation Secretariat	Rosanna Breidel, Ben Vander Steen
	Municipal Affairs & Housing	Jennifer Hill, Jessica Brooks



Appendix C PROJECT REPORTING 2020 Q1 & Q2

SOURCES: CIMP Reports (JFJV); LNGC-reported CLISMP data

Table C.1 LNG Canada Project Metrics—Housing & Accommodations

HOUSING & ACCOMMODATIONS (also EDUCATION, AMENITIES)	January	February	March¹⁰	April	May	June
Project local (resident) workforce	420	640	318	434	590	632
Project non-local workforce ¹¹ — temporarily housed at Open Lodges (average beds ¹²)	1,294	1,520	1,085	677	793	1,071
Project non-local workforce temporarily staying at Kitimat hotels or lodges	0	0	0	0	0	0
Project non-local workforce temporarily staying at Terrace hotels or lodges	0	0	0	0	0	0
Project staff re-located to Kitimat, presently staying in company provided housing	42	42	45	45	44	40
Accompanying Adults of relocated Project staff	28	28	31	32	32	29
Accompanying school-aged children of relocated Project staff	20	18	21	21	21	28
Number of housing related concerns or complaints	0	0	0	0	0	1 ¹³

¹⁰ Some March figures adjusted upwards with revised data received after previous SMR reporting period

¹¹ Non-local workforce housed at Sitka Lodge, Crossroads Lodge, Sitka Annex 2 Lodge during reporting period

¹² “Average beds” is based on the average occupancy at each of the open lodge facilities.

¹³ June 2—Concern from Kitimat motel owner about Project not using local motels



Table C.2 LNG Canada Project Metrics—Traffic

TRAFFIC	January	February	March	April	May	June
Number of daily Project bus trips from Northwest Regional Airport (YXT) to Kitimat (avg. passengers/day)	6 (75)	7 (68)	5 (32)	2 (9)	1 (11)	3 (19)
Number of daily Project bus trips from Terrace Park & Ride to Kitimat (avg. passengers/day)	5 (84)	6 (67)	7 (47)	7 (37)	10 (59)	10 (79)
Number of daily Project bus trips from Kitimat and Kitimaat Village Park & Ride to Site (avg. passengers/day)	47 (96)	60 (85)	50 (60)	37 (47)	56 (79)	73 (112)
Number of road transport-related incidents and near misses	3	8	0	1	1	3
Number of Project personnel on commercial flights through airport per month	2,056	1,750	1,364	540	758	797
Number of Project personnel on charter flights	1,396	1,709	1,381	430	684	1,231
Provision of project transportation plans to transportation authorities	1	1	1	1	1	2
Notifications to service providers and the public regarding scheduling of transportation equipment	3	1	0	0	0	0
Number of meetings with transportation authorities on traffic management, congestion, and road safety	1	1	1	1	1	1
Number of traffic related concerns or complaints	2	3	2	1	1	2



Table C.3 LNG Canada Project Metrics—Emergency Response & Health

EMERGENCY RESPONSE & HEALTH¹⁴	January	February	March	April	May	June
Number of ambulance service calls to worker sites	0	0	0	0	3	3
Number of fire department service calls to worker sites	0	0	0	0	0	0
Number of RCMP service calls to worker sites	0	1	0	0	0	1
Number of meetings held to coordinate and plan emergency response	1	4	16 ¹⁵	3	8 ¹⁶	7 ¹⁷
Number of emergency response related concerns or complaints	0	0	0	0	0	0
Number of workplace occupational injuries and illnesses requiring treatment at local hospitals	4	3	1	3	1	3
Number of workplace non-occupational injuries and illnesses requiring treatment at local hospitals	5	12	11	5	6	7
Number of workplace injuries or illnesses requiring medevac	0	0	0	0	0	0
Number of recordable occupational injuries	4	3	0	3	1	2
Number of recordable non-occupational injuries	8	9	8	2	3	0
Number of notifications to health authorities for occurrence of communicable illnesses/diseases	1	0	42 ¹⁸	40	39	12
Percentage of worked who have signed the Worker Code of Conduct	100%	100%	100%	100%	96%	100%
Percentage of workers who have completed Cultural Awareness Training	96%	99%	87%	100%	64% ¹⁹	80%
Number of community health related concerns or complaints	0	0	7 ²⁰	4	0	0

¹⁴ Health & Emergency Response metrics are compiled from 5 sources: JFJV site; LNGC (CPI contractors); Sitka Lodge medical services provider, Sitka annex 2 medical services provider, and Crossroads Lodge medical services provider

¹⁵ Emergency coordination and planning in March related to COVID-19

¹⁶ All emergency response planning meetings or notifications in May were with KFAS

¹⁷ June 4 KFAS medical distress debrief; June 19 KFAS; June 22 DOK Council closed session; June 30 DOK-JFJV-LNGC Interface Meeting; June 30 KFAS; June 9/23 COVID-19 response bi-weekly meeting with NHA

¹⁸ Most notifications March–June related to COVID-19, including daily briefings

¹⁹ Cultural Awareness Training can be completed within 30 days of attending Orientation as class size is capped at 30 people. Reduced training took place in May and June with smaller classes to respect social distancing. A plan is in place to ensure all workers are trained

²⁰ All Health concerns raised in March and April related to COVID-19.



Table C.4 LNG Canada Project Metrics—Utilities

UTILITIES ²¹	January	February	March	April	May	June
Volume (cubic metres) and weight (tonnes) of waste streams generated by Cedar Valley Lodge	-	-	-	-	-	-
Volume/weight of hazardous liquids sent to approved facilities ²² (litres)	3,370	13,280	4,000	10,120	5,230	14,980
Volume/weight of hazardous solids sent to approved facilities (meters cubed)	15,125	40,965	18,230	22,205	22,020	53,740
Volume/weight of non-hazardous solids sent to approved facilities (meters cubed)	1,182	2,688	1,122	1,908	2,036	3,528
Influent and effluent flow rates from Cedar Valley Lodge wastewater treatment system	-	-	-	-	-	-
Number of municipal utility related concerns or complaints	0	0	0	0	0	0

²¹ Efforts underway to compile demolition waste volumes which are not currently captured in the data table. Waste data will be restated when available.

²² Approved facilities: Hazardous liquids to: Terrapure in Prince George and Forceman Ridge Landfill in RDKS; Hazardous solids to Terrapure in Prince George and Forceman Ridge Landfill in RDKS; Non-Hazardous solids to Forceman Ridge Landfill in RDKS.



Appendix D 2020 Q1 & Q2 COMMUNITY REPORTING TRENDS

D.1 Housing and Accommodations

Key 2020 Q1 & Q2 trends in housing and accommodations identified from community reporting:

Region

- Hotel and motel occupancy rates decreased 18.3 percentage points in 2020 Q1 & Q2 compared to 2019 Q1 & Q2 (STR 2020), which was associated with COVID-19 travel restrictions.
- Drop in the number of residential houses sold in 2020 Q2 compared to 2019 Q4. Residential house resale prices are considerably lower in 2020 Q2 compared to 2019 Q2 but remain higher than pre-FID prices.

Kitimat

- Reduced capacity at facilities led to a large drop in direct LNG Canada workforce and other workers housed in open lodges in April 2020; however, occupancy has since increased (highest average occupancy in February 2020 Q1 with over 1,700 occupants²³) (Civeo 2020 and Horizon North 2020).
- BC Housing social housing units²⁴ in Kitimat have slightly decreased from 94 units in 2019 Q4 to 89 units in 2020 Q2, which is attributed by a decrease in total rent assistance in the private market and mortgages funded by the BC HOME Partnership program (BC Housing 2020a).
- Applicant households on the Housing Registry in Kitimat increased from 11 to 14 between 2019 Q4 and 2020 Q2 (BC Housing 2020a).
- Dunmore Place Transition House experienced a drop in nights full (%), from 79% to 30%, and a 54% decrease in bed-stays between 2019 Q1 & Q2 and 2020 Q1 & Q2²⁵ (TSW 2020).
- In 2020 Q1 & Q2, there was a decrease in online rental listings in Kitimat (128 listings in Q1 & Q2, up from 193 listings in 2019 Q3/Q4).
- Average rent in August 2020 was estimated from \$1,492²⁶ to \$2,075²⁷, compared with CMHC estimate of \$1,263 for row/apartments in October 2019 (CMHC 2020b).
- Kitimat apartments had an estimated vacancy rate of 13.5%²⁸ in 2020 Q1 & Q2, compared to 37.7% in October 2019 (CMHC 2020a and CMHC 2020b).

²³ Open lodge peak occupants include both guests and staff.

²⁴ BC Housing only tracks units where there is a financial relationship. There may be other subsidized housing units in the community.

²⁵ BC Housing reduced the maximum capacity of the Dunmore Place from eight beds to four; however, BC Housing funded hotel beds have also been an option (three additional beds if needed) (Martins 2020)

²⁶ For unfurnished apartments and bachelor suites from surveys (BRA and Stantec 2020).

²⁷ For furnished and unfurnished houses, rooms, row houses, suites, and apartments (BRA and Stantec 2020).

²⁸ At the time of the report, responses were still pending from two property management companies; January 2020 rental data was used for these properties.

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- Housing prices in 2020 Q2 decreased 17.5% from 2019 Q2 high but remains up 30.3% from pre-FID price (average price: \$334,532) (BCNREB 2020). In 2020 Q2, there were 20 units sold, up 81.8% from 2020 Q1, but 33.3% lower than 2019 Q2.

Terrace

- BC Housing social housing units in Terrace remained relatively stable since 2019, only decreasing by 2% from 564 units in 2019 Q4 to 555 units in 2020 Q2 (BC Housing 2020a).
- Ksan Residence and Shelter (KRS) operated at full or over-capacity 79% of nights in 2020 Q1 & Q2, down from 91% from 2019 Q1 & Q2; and experienced an 18% and 28% decrease in bed-stays in Q1 and Q2, respectively, between 2019 and 2020 (Ksan Society 2020).
- Average % nights full or overfull at the Terrace Transition House increased by 4% between 2019 Q1 and 2020 Q1, and decreased by 86% between 2019 Q2 and 2020 Q2 (Ksan Society 2020).
- Occupancy rates at the M'akola Housing units are around 3% higher in 2020 Q1 & Q2 than in 2019 Q1 & Q2, with at least 92% of the units occupied during each month (M'akola Housing Society 2020).
- Decrease in online rental listings in Terrace from 2019 (96 in 2020 Q1 & Q2, down from 116 in 2019 Q3/Q4).
- In July 2020, Terrace rental market was estimated²⁹ at 0.7% vacancy (no vacancy for duplexes and trailers), down from CMHC (Canadian Mortgage and Housing Corporation) estimate of 2.1% in October 2019 and 0.8 percentage points lower than the provincial average of 1.5% (CMHC 2020a).
- The average quarterly residential house resale price is 17.8% above the pre-FID price after a 17.8% decrease from 2019 Q4 to 2020 Q1 (BCNREB 2020). Units sold in 2020 Q2 were down 49% compared to 2019 Q2.

D.2 Community Health

Key 2020 Q1 & Q2 trends in community health identified from community reporting:

Kitimat General Hospital

- While 2020 Q1 ER visits to KGH increased 2% compared to Q1 2019, visits in 2020 Q2 were 32% lower than Q2 2019 (Northern Health 2020).
- Decline consistent with a pattern seen across the Northern Health region and in other regions of BC, resulting from public-health measures put in place in response to the COVID-19 epidemic.
- The proportion of ER admissions from outside the NH HSDA in 2020 Q2 (9%) was higher than in 2019 Q2 but lower than in 2019 Q4.
- Most (69%) of ER visits in 2020 Q1 & Q2 were unscheduled; however, the proportion of unscheduled visits decreased from 2019 Q4, when it was 77%.

²⁹ BRA rental market estimates based on telephone surveys of property management companies in Terrace (six of the nine property management firms in Terrace), which included 285 rental units out of 571 total rental housing units (CMHC 2020a).

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Mills Memorial Hospital

- ER visits to Mills Memorial Hospital in 2020 Q1 and Q2 declined 12% and 33% respectively compared to 2019 Q1 and Q2 (Northern Health 2020).
- Proportion of ER admissions from outside the NHA was 5.5% in 2020 Q1 & Q2, similar to the proportion of unscheduled visits in 2019.
- Approximately 83% of ER visits to MMH in 2020 Q1 & Q2 were unscheduled, comparable to the rates of unscheduled visits experienced in 2019.

Social determinants of health (SDOH) are the economic and social conditions that influence the health outcomes of populations. Determinants of health monitored within the scope of the CLISMP include employment/ working conditions, accessible housing, and use of medical services. It is assumed that the availability and accessibility of community infrastructure and services would influence personal and community health. The following describes trends in community health indicators identified from 2020 Q1 & Q2 community reporting:

- Lack of available and affordable rental housing in both communities (BRA and Stantec 2020).
- Elevated demand for affordable and subsidized housing in both communities (BC Housing 2020a and M'akola Housing Society 2020).
- In both communities, the overall incidences of crime increased between 2019 Q1 and 2020 Q1 and decreased between 2019 Q2 and 2020 Q2 (RCMP 2020). This is likely attributed to the travel bans and business closures in response to the COVID-19 pandemic.
- Elevated demand for affordable and accessible daycare in Terrace (BRA 2020).
- In response to the pandemic, reduced capacity at emergency shelters, increased sanitation work, and reduced ability to provide non-resident support services (Ksan Society 2020, Kitimat CDC 2020, TSW 2020).
- Extended extreme weather response shelters from April to September 2020.

D.3 Traffic

Key 2020 Q1 & Q2 trends in traffic identified from community reporting are:

Kitimat-Terrace Region

- 2020 Q1 traffic volumes have been on average 1% higher than for 2019 Q1, while 2020 Q2 traffic volumes decreased 8% compared to 2019 Q2.
- There was a 4% decrease in commercial air passengers in 2020 Q1 compared to Q1 2019, and an 84% decrease in 2020 Q2 compared to 2019 Q2.
- Air passenger volume was largely affected by travel restrictions in response to the COVID-19 pandemic. The increase in commercial air passengers during Q2 can primarily be attributed to industrial and medical traffic through the airport (Bogstie 2020).



D.4 Emergency Response

Key 2020 Q1 & Q2 trends in emergency services identified from community reporting are:

Kitimat

- In 2020 Q1, there was a 19% increase in fire related calls to the Kitimat Fire and Ambulance Service (KFAS) compared to 2019 Q1, followed by a 3% decrease in calls in 2020 Q2 compared to 2019 Q2 (KFAS 2020).
- 31% increase in KFAS medical related (ambulance) calls in 2020 Q1 compared to 2019 Q1, and an 8% decrease in 2020 Q2 compared to 2019 Q2.
- 7% decrease in total calls for service³⁰ to the KFAS between 2019 Q1 & Q2 and 2020 Q1 & Q2.
- In 2020 Q1, Kitimat RCMP received a 19% increase in calls for service compared to 2019 Q1, followed by a 13% decrease in 2020 Q2 compared to 2019 Q2 (RCMP 2020).
- In 2020 Q1, there was a 17% increase in total incidents for the Kitimat detachment compared to 2019 Q1, however, there was a 21% decrease in incidents in 2020 Q2 compared to 2019 Q2.

Terrace

- 2020 Q2 Terrace Fire Department (TFD) calls were 70% lower than in 2019 Q2, after a 40% decrease in 2020 Q1 compared to 2019 Q1. From 2019 to 2020 there was a change in how some types of calls were routed to the TFD, resulting in a reduction in non-emergency and medical related calls (Jephson 2020).
- In Q1, Terrace ambulance services (BCEHS [BC Emergency Health Services]) experienced a 2% increase in total calls for service and 16% increase in urgent calls requiring “lights and sirens” response between 2019 and 2020 (BCEHS 2020).
- Terrace RCMP received a 6% increase in calls in 2020 Q1 compared to 2019 Q1, followed by a 19% decrease in calls in 2020 Q2 compared to 2020 Q2 (RCMP 2020).
- In 2020 Q1, there was a 10% increase in total incidents for the Terrace detachment compared to 2019 Q1, and a 35% decrease in incidents in 2020 Q2 compared to 2020 Q2.

D.5 Community Amenities

Key 2020 Q1 & Q2 trends in community amenities are:

Region

- Community facilities were closed for the majority of 2020 Q2.
- Total camping attendance at the Lakelse Lake Provincial Park increased 14% in June 2020 compared to June 2019 (BC Parks 2020).

³⁰ Inclusive of fire related calls, medical related calls, rescue related calls, trouble calls, and emergency response calls, but not including transfers or calls related to dangerous goods.

Joint venture companies



Kitimat

- 54% decrease in community program³¹ attendance at the Riverlodge Centre and other community facilities between 2019 Q1 and 2020 Q1, with the decline attributed to COVID-19.
- In 2020 Q1, there was a 15% decrease in total facility attendance (Sam Lindsay Aquatic Centre and Tamitik Sports Complex) compared to 2019 Q1 (DOK 2020b).
- 49% decrease in Radley Park campers during 2020 Q2 compared to 2019 Q2 due to a late reopening of the campgrounds in response to the pandemic (normal camping season: May 15-Sep 15).

Terrace

- In 2020 Q1, membership scans and drop-in customers at the Terrace Aquatic Centre dropped by 34% compared to 2019 Q1. The Aquatic Centre remained closed in 2020 Q2 in response to the pandemic.
- Terrace Sportsplex fitness class attendance decreased by 26% in 2020 Q1 compared to 2019 Q1 (COT 2020b).
- In 2020 Q2, there was a 60% decline in Ferry Island campers (Terrace) compared to 2019 Q2, due to a late reopening and limited capacity of the campground in response to COVID (normal camping season: May-Sep).

D.6 Education

Key 2020 Q1 & Q2 trends in education are:

K-12

- No new K-12 enrolment data for Q1 and 2020 Q2; however, the following data from 2019 is included for reference.
- In January 2020, CMSD projected an increase of 24 students (<1%) over the next 10 years (CMSD 2020).

Childcare

Kitimat

- The Kitimat Community Development Centre (CDC) provides licensed childcare centres in Kitimat. It is currently licensed for 46 childcare spaces: 20 spaces for Infant Toddler (0–3), 18 spaces for ages 3–5, and eight spaces for multi-age, plus 22 spaces for out-of-school care (Kitimat CDC 2020).
- No new Kitimat childcare capacity information is available for 2020 Q1 & Q2.

³¹ Community programs include youth and adult fitness/sports programs, pre-school/babysitting, outdoors programs and youth summer playground programs.

Joint venture companies



- There are consistently at least 30 Infant Toddlers on the waitlist, which will likely increase with the end of the Temporary Emergency Funding and the expectation of going back to normal operation following the initiatives put in place in response to COVID, in addition to chronic staffing shortages. This trend will increase if the childcare centres do not receive more qualified early childhood educators (ECEs) in the community/Province (Hemmy 2020).
- DOK, TSW and Haisla Nation have received provincial funding to provide overnight care services in the community (i.e., to support families with shift work) (Martins 2020). Inadequate wages and qualifications are reported as huge barriers to staffing.

Terrace

No new Terrace childcare data is available for 2020 Q1 and Q2.

Post-Secondary Institutions

- No new Coast Mountain College (CMTN) data is available for 2020 Q1 and Q2.
- UNBC Northwest Campus³² data shows a 21% decrease and 75% decrease in student enrolment³³ in the Winter and Summer semesters³⁴, respectively, between 2019 and 2020.

Other Education and Training Providers

- In 2020 Q1 & Q2, Kitimat Valley Education Society (KVES) delivered the mandatory Cultural Awareness training to approximately 200 Project workers per week.
- KVES is registered Non-Profit Society without any core funding from the BC Government to provide education services in Kitimat. KVES relies on industry to book services to support its non-profit organization. Currently, KVES employs 47 local people and offers corporate training, an occupational testing site, a registered BC employment agency, a business and conference centre and a management consultant company (Lewis 2020).

D.7 Utilities

Key 2020 Q1 & Q2 trends in utilities are:

Potable Water & Sewage Services

Kitimat

- No new water services data from DoK was available for 2020 Q1 and Q2.

³² Northwest Campus includes Kitimat, Terrace, Hazelton, Prince Rupert, Haida Gwaii and sometimes Smithers (depending on the demand)

³³ Includes undergrad and grad programs.

³⁴ Winter semester: Jan-Apr; Summer semester: May-Aug.

Joint venture companies



Terrace

- 3% increase in average daily flow and peak day demand for COT potable water between 2019 and 2020 (Q1 & Q2) (COT 2020a).
- 6% increase in the average daily flow for COT wastewater treatment services between 2019 and 2020, as well as an 13% decrease in peak daily flow.

Landfills

The following summarizes the status of landfills in the region based on latest available data:

Forceman Ridge Landfill (Operated by RDKS)

- Landfill capacity/lifespan (as of 2020): 95 years
- 63% increase in total waste disposed in 2020 Q1 & Q2 compared to 2019 Q1 & Q2 (7,929 tonnes in 2020 Q1 & Q2 compared to 4,879 tonnes in 2019 Q1 & Q2) (RDKS 2020).
- 3,190 tonnes of out-of-service area industrial waste collected in 2020 Q1 & Q2, compared to 521 tonnes collected in 2019 Q1 & Q2 (5 times more industrial waste), as well as 3,152 tonnes of industrial contaminated soil³⁵ collected in 2020 Q1 & Q2 compared to 32 tonnes collected in 2019 Q1 & Q2 (approximately 100 times more contaminated soil).
- Population served: approximately 20,000 people
- Permitted to receive industrial waste

Kitimat Landfill (Operated by DoK)

- No Kitimat Landfill data was available for 2020 Q1 and Q2.
- The District of Kitimat landfill is expected to reach capacity in 2047 (RDKS 2019). The District is currently developing their solid waste management plan and is accessing the landfill's life expectancy (DOK 2020a).
- Not permitted to receive industrial waste.

City of Terrace

- There are no operating landfills within the City of Terrace. The City discharges landfill waste to the RDKS owned and operated Thornhill Transfer Station and Forceman Ridge Landfill (COT 2020a).

³⁵ Industrial contaminated soil can also come from non-industrial sources (used as cover for landfill, and does not take up airspace) (Haley 2020).