

# Trans Mountain Expansion Project

## Socio-Economic Monitoring Report - Lower Mainland Region

January to March 2022 (Rev 1)



### Introduction

This report presents the quarterly socio-economic monitoring results for the Lower Mainland Region related to construction of the Trans Mountain Expansion Project (TMEP or the Project). The monitoring approach and indicators are discussed in detail in the TMEP Socio-Economic Effects Monitoring Plan (SEEMP) approved by the Canadian Energy Regulator (CER) pursuant to CER Condition 13 (see link below). This report presents the Project-specific indicators; these are data that are directly attributable to the Project, reflect the Project's contribution to socio-economic outcomes, and help pinpoint Project actions that may require change. Please refer to Annex 1 - Socio-Economic Context, Lower Mainland for the regional context indicators that reflect the broader socio-economic conditions in which Project construction is occurring.

*Trans Mountain's first priority has and will always be the health and safety of our workforce, their families and our communities. In response to the evolving COVID-19 pandemic, Trans Mountain and our construction contractors for the Trans Mountain Expansion Project have been working diligently together to ensure adherence to all advice and direction from government and health officials both provincially and federally.*

[Socio-Economic Effects Monitoring Plan \(CER Condition 13\)](#) (link to the CER website where the SEEMP is filed)

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### Project-Specific Indicators

#### Quantitative Indicators

| SEEMP<br>Indicator No. | Indicator   | Monthly Total |              |              | Quarterly Count | %<br>(where applicable) | Threshold<br>Triggered?<br>(Y/N) | If Threshold Triggered, Action Taken |
|------------------------|---|---------------|--------------|--------------|-----------------|-------------------------|----------------------------------|--------------------------------------|
|                        |   | Jan-22        | Feb-22       | Mar-22       |                 |                         |                                  |                                      |
| N/A                    | Total calendar days of construction site work during the reporting cycle  | 30            | 24           | 24           | 78              | N/A                     | N/A                              |                                      |
|                        | Workers on site per day (average)   | 1059          | 1930         | 2198         | 1677            | N/A                     |                                  |                                      |
| 1                      | Number of worker-days in field (categorized in two ways: by geographic origin, and also by Indigenous v. non-Indigenous status)<br>Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy CER Condition 59                    |               |              |              |                 |                         |                                  |                                      |
|                        | Total Worker-days   | 31760         | 46322        | 52748        | 130830          | 100%                    | N/A                              | N/A                                  |
|                        | a) Worker-days, Local or Regional residents   | 17862         | 29107        | 30523        | 77492           | 59%                     |                                  |                                      |
|                        | b) Worker-days, Other (workers not Local or Regional residents)   | 13898         | 17215        | 22225        | 53338           | 41%                     |                                  |                                      |
|                        | c) Indigenous   | 1525          | 2293         | 2651         | 6469            | 5%                      |                                  |                                      |
|                        | d) Non-Indigenous   | 30235         | 44029        | 50097        | 124361          | 95%                     |                                  |                                      |
| 2                      | Number of worker-days in field (categorized by accommodation arrangements of the workers)<br>Threshold for Action: Less than 75% of non-local/regional workers are staying in camps and qualitative feedback received about adverse issue or concern from local authority or tourism /hotel association representative. |               |              |              |                 |                         |                                  |                                      |
|                        | Total Worker-days   | 31760         | 46322        | 52748        | 130830          | 100%                    | N                                | N/A                                  |
|                        | a) Worker-days, Local or Regional resident, residing at home  | 16969         | 27268        | 27654        | 71891           | 55%                     |                                  |                                      |
|                        | b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)   | 14791         | 19054        | 25094        | 58939           | 45%                     |                                  |                                      |
|                        | c) Worker days, not Local or Regional resident, staying in TMEP camps   | 0             | 0            | 0            | 0               | 0%                      |                                  |                                      |
| 3                      | Living out allowance or related stipend<br>Threshold for Action: An increase in the number of worker-days paid (indicator 3a) from the previous reporting cycle and any qualitative feedback received about adverse issues from local authorities or tourism /hotel associations.                                       |               |              |              |                 |                         |                                  |                                      |
|                        | a) Number of worker-days paid   | 13483         | 17381        | 23384        | 54248           | N/A                     | N                                | N/A                                  |
|                        | b) Total value (\$)   | \$ 2,791,134  | \$ 3,612,406 | \$ 4,642,808 | \$ 11,046,348   | N/A                     |                                  |                                      |
| 5                      | Number of worker-days, in field - anticipated in next business quarter<br>Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Indigenous groups in community readiness.  |               |              |              |                 |                         |                                  |                                      |
|                        | a) April 2022   | N/A           |              |              | 43962           | N/A                     | N/A                              | N/A                                  |
|                        | b) May 2022   |               |              |              | 38792           | N/A                     |                                  |                                      |
|                        | c) June 2022  |               |              |              | 40753           | N/A                     |                                  |                                      |

| SEEMP<br>Indicator No. | Indicator   | Monthly Total |        |        | Quarterly Count | %    | (where applicable) | Threshold<br>Triggered?<br>(Y/N)  | If Threshold Triggered, Action Taken |
|------------------------|---|---------------|--------|--------|-----------------|------|--------------------|---|--------------------------------------|
|                        |   | Jan-22        | Feb-22 | Mar-22 |                 |      |                    |   |                                      |
| 6                      | Number of motor vehicle collisions or reportable incidents that involve Project vehicles on public roads during work hours or Contractor-owned vehicles during off-work hours<br><i>Threshold for Action:</i> No minimum threshold. All incidents/accidents will be investigated.   |               |        |        |                 |      |                    |   |                                      |
|                        | Total   | 3             | 1      | 1      | 5               | N/A  | N/A                | N/A   |                                      |
|                        | a) Number involving injuries  | 0             | 0      | 0      | 0               | N/A  |                    |   |                                      |
|                        | b) Number involving fatalities  | 0             | 0      | 0      | 0               | N/A  |                    |   |                                      |
| 7                      | Workers transported from staging areas per day (average)<br><i>Threshold for Action:</i> Number, when calculated as a % of total workers on site (average during the month of the count) is less than 75%.  |               |        |        |                 |      |                    |   |                                      |
|                        | Mid-month count   | 726           | 695    | 944    | 788             | N/A  | Y<br>(see Note 1)  | Pipeline Contractor has initiated worker transport strategies, using shuttles to transport workforce from staging areas. There are multiple staging areas to support efforts to transport workers to worksites daily, while some positions require a vehicle to complete their work between multiple sites. |                                      |
|                        | End-month count   | 815           | 798    | 1002   | 872             | N/A  |                    |   |                                      |
|                        | Average   | 771           | 747    | 973    | 830             | N/A  |                    |   |                                      |
| 8                      | Personal vehicles in staging area per day (average)<br><i>Threshold for Action:</i> Number is 10% or more of AADT values at locations nearest to staging yards <b>and</b> qualitative feedback received about adverse traffic volume issues via indicators #11 and #12.   |               |        |        |                 |      |                    |   |                                      |
|                        | Mid-month count   | 583           | 719    | 750    | 684             | N/A  | N                  | N/A   |                                      |
|                        | End-month count   | 612           | 806    | 810    | 743             | N/A  |                    |   |                                      |
|                        | Average   | 598           | 763    | 780    | 713             | N/A  |                    |   |                                      |
| 9                      | Number of times a “captive” Project worker was referred to a local health facility or required emergency medical transport ("Captive" workers = workers on a Project premises, i.e., in camp or on work-site)<br><i>Threshold for Action:</i> Qualitative feedback from local health authority regarding capacity concerns. |               |        |        |                 |      |                    |   |                                      |
|                        | a) Total number of times a worker was referred or sent to local health facilities   | 3             | 3      | 8      | 14              | 100% | N                  | N/A   |                                      |
|                        | i. urgent   | 0             | 0      | 1      | 1               | 7%   |                    |   |                                      |
|                        | ii. non-urgent  | 3             | 3      | 7      | 13              | 93%  |                    |   |                                      |
|                        | iii. occupational   | 0             | 1      | 4      | 5               | 36%  |                    |   |                                      |
|                        | iv. non-occupational  | 3             | 2      | 4      | 9               | 64%  |                    |   |                                      |
|                        | b) Total number of times a worker required ambulance or other emergency transport   | 0             | 0      | 1      | 1               | N/A  |                    |   |                                      |
| 10                     | Number of medical visits to Project on-site medical facilities<br><i>Threshold for Action:</i> Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.  |               |        |        |                 |      |                    |   |                                      |
|                        | Total   | 77            | 99     | 107    | 283             | 100% | N                  | N/A   |                                      |
|                        | a) occupational   | 28            | 33     | 33     | 94              | 33%  |                    |   |                                      |
|                        | b) non-occupational   | 49            | 66     | 74     | 189             | 67%  |                    |   |                                      |
| 14                     | Number of people affected by a notifiable disease in a work camp<br><i>Threshold for Action:</i> No minimum threshold; all notifiable diseases will be reported to the local health authority   |               |        |        |                 |      |                    |   |                                      |
|                        | Total   | 0             | 0      | 0      | 0               | N/A  | N/A                | N/A   |                                      |

# Qualitative Indicators

| SEEMP Indicator No. | Indicator   |   |   | Threshold Triggered? Y/N  | If Threshold Triggered, Action Taken |     |
|---------------------|---|---|---|---|--------------------------------------|-----|
| 4                   | Qualitative feedback about Project use of local/regional commercial accommodation (e.g., hotels, motels, campgrounds)<br><i>Threshold for Action: Qualitative feedback received about adverse issues from local authorities, tourism/hotel associations or hotels used by Contractor.</i> |   |   |   |                                      |     |
|                     | None  |   |   | N   | N/A                                  |     |
| 11                  | Number and types of calls/complaints received through TMEP feedback line about construction-related social impacts<br><i>Threshold for Action: There is no threshold for action as all grievances will be responded to.</i>   |   |   |   |                                      |     |
|                     | Month   | Number, originating from the region                   | Common Socio-Economic Impact Themes During the Quarter  |   | N/A                                  | N/A |
|                     | Jan-22  | Total: 14<br>% Indigenous: 0<br>% Non-Indigenous: 100 | Worker conduct - Project-related vehicle driver on Hartley Ave. urinated on private property  | The Worker Code of Conduct specifies that all workers are ambassadors of the Project, and it is important that the people living in the vicinity of the Project are treated with respect and consideration during the Project construction time frame. In this instance, the driver was removed from site and was not permitted to return.  |                                      |     |
|                     | Feb-22  | Total: 8<br>% Indigenous: 0<br>% Non-Indigenous: 100  | Sensory disturbance - Residents complained about odor and noise coming from Burnaby Terminal, noise from work on weekends near Fraser Heights, and noise and vibration from construction on United Blvd | Trans Mountain will follow up on odor, vibration and noise complaints to confirm their relation to Project activity. Trans Mountain is working to ensure compliance with bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. For example, the pump near Burnaby Terminal has been replaced with a quieter model, and lights impacting Meadowood are being examined to see if they can be adjusted.  |                                      |     |
|                     | Mar-22  | Total: 11<br>% Indigenous: 0<br>% Non-Indigenous: 100 | Sensory disturbance - Meadowood resident complained about lights from Burnaby Terminal shining in window  | Trans Mountain will continue to follow up on any traffic-related or business impact concerns. Contractors have a Traffic Management Plan that addresses public protection measures, access roads/routes to the construction site and Traffic Control Plans for each work zone which consider potential impacts with mitigation. Trans Mountain follows with the contractor to ensure traffic-related requirements are being met. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, Project drivers will be reminded that they must obey traffic laws and signage; Trans Mountain will follow-up regarding vehicle parking safety; and traffic control is ongoing in Meadowood. |                                      |     |
|                     |   |   | Sensory disturbance - Mr. Pets on United Blvd complained that vibration from construction is causing damage to the health of their fish.  |   |                                      |     |
|                     |   |   | Traffic – signage visible on Burbidge Street and damage to car from bottoming out on United Blvd.   |   |                                      |     |
|                     |   |   | Traffic - traffic on Gagliardi Way and in Meadowood neighbourhood   |   |                                      |     |
|                     |   |   | Traffic - Project-related vehicles not obeying traffic laws near Westridge Terminal and Burnaby Terminal; trucks parked on Shellmont  |   |                                      |     |
|                     |   |   | Traffic - Chip in windshield from rock and debris near Greystone and Burnaby Terminal, and businesses complained about bump in road that is causing cars to bottom out                                  |   |                                      |     |
|                     |   |   | Traffic - Flaggers not functioning properly; concern about signage for traffic along United Blvd.   |   |                                      |     |

|    |   |   |   |   |   |
|----|---|---|---|---|---|
|    |   | Traffic - Project related vehicles parking on private property on Hartley and Fawcett; lack of visibility for businesses along United Blvd. |   |   |   |
|    |   | Business Impacts - access issues on United Blvd.  |   |   |   |
| 12 | <b>Qualitative feedback themes about community concerns and experienced social effects</b><br><b>Threshold for Action:</b> Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.  |   |   |   |   |
|    | <b>Theme</b>  | <b>Impact Overview</b>  | <b>Trans Mountain Response</b>  |   | <b>If Threshold Triggered, Action Taken</b>   |
|    | Access Limitations, Local Infrastructure and Services<br>(feedback from City of Coquitlam)  | Safety of the Project-area within City of Coquitlam.  | Trans Mountain is regularly engaging with City of Coquitlam regarding any identified issues. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, regarding a complaint regarding a wheelchair being stuck in the sand, Contractor has paved the area make it more accessible for those with mobility challenges. Trans Mountain has developed a corrective action plan that was presented to the City of Coquitlam. It includes daily audits of worksites, business driveways and roadways and in-depth weekly audits that the City of Coquitlam is invited to attend. Any new safety or accessibility concerns are identified and information is provided to the City of Coquitlam on a daily basis via email, including anticipated timelines for any repairs. | Y | Trans Mountain has developed a corrective action plan that was presented to the City of Coquitlam. It includes daily audits of worksites, business driveways and roadways and in-depth weekly audits that the City of Coquitlam is invited to attend. Any new safety or accessibility concerns are identified and information is provided to the City of Coquitlam on a daily basis via email, including anticipated timelines for any repairs. |
|    | Traffic<br>(feedback from individual via City of Coquitlam)   | Tire damage due to pothole on Burbidge St., Coquitlam   | Trans Mountain will continue to follow up on any traffic-related or business impact concerns. Contractors have a Traffic Management Plan that addresses public protection measures, access roads/routes to the construction site and Traffic Control Plans for each work zone which consider potential impacts with mitigation. Trans Mountain follows with the contractor to ensure traffic-related requirements are being met. Each complaint is examined in order to provide additional information and/or appropriate follow-up. In this instance, the pothole on Burbidge St. has been repaired.   | Y | The pothole on Burbidge Street has been repaired.   |
| 13 | <b>Qualitative feedback themes about effects on the quality and abundance of traditional harvesting resources, or ability of Indigenous people to harvest resources, within the Project footprint</b><br><b>Threshold for Action:</b> Qualitative feedback from Indigenous group leader/administrator regarding reports of adverse effects on quality and abundance of traditional harvesting resources, or ability of Indigenous people to harvest their resources or access cultural sites, within the Project footprint. |   |   |   |   |
|    | None  |   |   |   |   |

## Methodology and Notes

- Information in this report was collected through internal sources including labour and incident data from Contractors, TMEP feedback line data, and the review of stakeholder and Aboriginal engagement records. Data reflects activity related to TMEP construction only.
- A worker-day is defined as 10 hours of work, by a construction Contractor on-site or in an on-site office.
- The monthly data cut-off is typically the last Saturday of each month; this reporting cycle was December 26 - March 26, 2022.
- Thresholds are internally assessed on a monthly basis and are considered triggered if a threshold is exceeded for any given month within each quarterly reporting cycle.
- The threshold analysis of Indicator 1 utilizes the estimate of non-local/regional workers estimated in the Worker Accommodation Strategy (WAS) CER Condition 59, based on the corresponding month of construction in an ordered manner. For example, Month 1 predicted in the WAS is compared to Month 1 actual.
- Indicator 11 tallies feedback line calls/queries related to actual socio-economic impact topics related to TMEP construction activity. Socio-economic topics include: access limitations; road closures; business impacts; pressure on housing/accommodation; burden on infrastructure/services; sensory disturbance; traffic and driving; worker conduct; traditional use and cultural sites.
- Employment and business opportunity and training indicators are monitored and reported through separate processes, as per distinct CER Conditions (CER Condition 107 - Aboriginal, Local and Regional Employment and Business Opportunity Monitoring Reports; and CER Condition 58 - Training and Education Monitoring Reports).
- Individual numbers may be rounded to allow for totals to add up.
- For the threshold analysis for Indicator 1, the estimate of non-local/regional workers estimated in the WAS finished in May 2020. Therefore, as of June 2020 the threshold analysis for Indicator 1 is N/A.
- Indicator 5 includes active Construction contractors only.
- Data may be subject to revisions based on updates from Contractors or ongoing quality reviews.

## Notes

1. For the threshold analysis for Indicator 7, the average workers transported from staging areas per day (830) is approximately 49% of the average workers on site per day (1677).