

# Trans Mountain Expansion Project Socio-Economic Monitoring Report - Lower Mainland Region

January to March 2023 (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.

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

For more information contact: info@transmountain.com or 1-866-514-6700

## Project-Specific Indicators

### Quantitative Indicators

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-23	Feb-23	Mar-23				
N/A	Total calendar days of construction site work during the reporting cycle	24	24	24	72	N/A	N/A	
	Workers on site per day (average)	2020	2198	2895	2371	N/A		
1	<b>Number of worker-days in field (categorized in two ways: by geographic origin, and also by Indigenous v. non-Indigenous status)</b> <i>Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy CER Condition 59</i>							
	Total Worker-days	48481	52755	69483	170719	100%	Y Data not available; construction workforce continues beyond Worker Accommodation Strategy predicted timeframe	Indicator 5 (below) provides updated anticipated work force number (in worker days) in this region for the next business quarter. These numbers are made available through notification of the online posting of this Report to municipal or regional government authorities, health authorities, social services, police, hotel / tourism associations and chambers of commerce.
	a) Worker-days, Local or Regional residents	23249	26015	36675	85939	50%		
	b) Worker-days, Other (workers not Local or Regional residents)	25232	26740	32808	84780	50%		
	c) Indigenous	2876	3021	4028	9925	6%		
	d) Non-Indigenous	45605	49734	65455	160794	94%		
2	<b>Number of worker-days in field (categorized by accommodation arrangements of the workers)</b> <i>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.</i>							
	Total Worker-days	48481	52755	69483	170719	100%	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	20613	22839	30477	73929	43%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	27868	29916	39006	96790	57%		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	0	0	0	0	0%		
3	<b>Living out allowance or related stipend</b> <i>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.</i>							
	a) Number of worker-days paid	25000	26471	40072	91543	N/A	N	N/A
	b) Total value (\$)	\$ 5,595,830	\$ 6,106,536	\$ 9,297,730	\$ 21,000,096	N/A		
5	<b>Number of worker-days, in field - anticipated in next business quarter</b> <i>Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Indigenous groups in community readiness.</i>							
					Worker days	Worker onsite per day (avg)		
	a) April 2023	N/A			64268	2472	N/A	N/A
	b) May 2023				58691	2257		
	c) June 2023				48152	1852		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-23	Feb-23	Mar-23				
6	<b>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</b> <i>Threshold for Action: No minimum threshold. All incidents/accidents will be investigated.</i>							
	Total	0	0	0	0	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	<b>Workers transported from staging areas per day (average)</b> <i>Threshold for Action: Number, when calculated as a % of total workers on site (average during the month of the count) is less than 75%.</i>							
	Mid-month count	846	908	1205	986	N/A	Y (see Note 1)	Pipeline Contractor has 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	881	936	1256	1024	N/A		
	Average	864	922	1231	1005	N/A		
8	<b>Personal vehicles in staging area per day (average)</b> <i>Threshold for Action: Number is 10% or more of AADT values at locations nearest to staging yards and qualitative feedback received about adverse traffic volume issues via indicators #11 and #12.</i>							
	Mid-month count	643	662	1022	776	N/A	N	N/A
	End-month count	673	690	1028	797	N/A		
	Average	658	676	1025	786	N/A		
9	<b>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)</b> <i>Threshold for Action: Qualitative feedback from local health authority regarding capacity concerns.</i>							
	a) Total number of times a worker was referred or sent to local health facilities	7	6	4	17	100%	N	N/A
	i. urgent	2	1	0	3	18%		
	ii. non-urgent	5	5	4	14	82%		
	iii. occupational	3	2	4	9	53%		
	iv. non-occupational	4	4	0	8	47%		
	b) Total number of times a worker required ambulance or other emergency transport	2	0	0	2	N/A		
10	<b>Number of medical visits to Project on-site medical facilities</b> <i>Threshold for Action: Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.</i>							
	Total	151	63	101	315	100%	N	N/A
	a) occupational	58	10	66	134	43%		
	b) non-occupational	93	53	35	181	57%		
14	<b>Number of people affected by a notifiable disease in a work camp</b> <i>Threshold for Action: No minimum threshold; all notifiable diseases will be reported to the local health authority</i>							
	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	<b>Qualitative feedback about Project use of local/regional commercial accommodation (e.g., hotels, motels, campgrounds)</b> <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	<b>Number and types of calls/complaints received through TMEP feedback line about construction-related social impacts</b> <i>Threshold for Action: There is no threshold for action as all grievances will be responded to.</i>			
	<b>Month</b>	<b>Number, originating from the region</b>	<b>Common Socio-Economic Impact Themes During the Quarter</b>	
	Jan-23	Total: 13 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - noise in Langley, Fraser Heights, 160th St and loud siren at 217th St; noise at night in Forest Grove and Langley; Project-related dust in Fraser Heights; residents complained about lights related to work in the Broadway area; noise at night in Burnaby associated with Westridge Marine Terminal; light near the Salmon River crossing; noise and light near Belmont Golf Course; noise in Fraser Heights; noise from the hydrovac near the Broadway/Arden intersection in Burnaby; noise in Surrey; noise overnight near the Brunette River in Burnaby; pile driving noise in Burnaby; noise related to trenchless crossing in West Munday Creek area.	
	Feb-23	Total: 16 % Indigenous: 0 % Non-Indigenous: 100	Trans Mountain will follow up on dust, light, noise and vibration complaints to confirm their relation to Project activity. Trans Mountain is monitoring to ensure compliance with bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. For example, the night noise in Burnaby was caused by installation of the rockfish reef and Trans Mountain is working to mitigate the issue. An investigation has been conducted into the night noise in Forest Grove and Trans Mountain was unable to determine the source.	
	Mar-23	Total: 17 % Indigenous: 0 % Non-Indigenous: 100	N/A	
			<p>Traffic – Project workers taking up parking on 231st St.; resident complained about construction related signage on their property; reduced visibility at the pedestrian crossing on Broadway; general traffic management concerns in Burnaby; complaint about dump trucks in the parking lot on Underhill; Project-related trucks parked in front of homes in Meadowood; Project related traffic stoppages impacting workers in Langley; traffic around Bainbridge temporary site.</p> <p>Access Limitations - Underhill Business Park business complained about vehicles using the wrong gate; Project-related trucks holding up traffic in Langley which causes employees to be late for work; resident complained about trail closures in the Lower Mainland.</p>	
			<p>Trans Mountain will continue to follow up on any traffic-related. 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, construction related signage on private property has been removed. For general traffic concerns in Burnaby, an audit was conducted by a traffic inspector and it was determined that Trans Mountain is in compliance with our City of Burnaby approved traffic plans. For the Project related traffic stoppages in Langley, Trans Mountain is working with crews to limit the length of stops.</p> <p>Trans Mountain will continue to follow up on any access-related concerns. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, using the correct gate has been communicated to the contractors. Traffic in Langley was due to a miscommunication between the contractor and a gravel truck and was resolved.</p>	
			N/A	N/A

12	<b>Qualitative feedback themes about community concerns and experienced social effects</b>				
	<i>Threshold for Action: Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.</i>				
	Theme	Impact Overview	Trans Mountain Response	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
	Sensory Disturbance (Kwikwetlem First Nation)	Dust, dirt and mud at Colony Farm	Trans Mountain will follow up on dust and dirt complaints to confirm their relation to Project activity. Trans Mountain is working to ensure compliance with bylaws and requirements. Trans Mountain will work with communities to resolve and address such complaints where practical.	Y	Dust management was increased to three times per day on dry days. Sweeper frequency was increased to three times per week mitigate dust/gravel build up.
	Traffic, Access (Kwikwetlem First Nation)	Trucks blocking access at Colony Farm Road. Project vehicle speed.	Trans Mountain will continue to follow up on any traffic-related 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.	Y	Speed limit signs were posted in both directions at Colony Farm. A communication was distributed to GCC subcontractors and workers about speed limits. TMEP Traffic Inspectors were deployed to focus on the Colony Farm Area.
	Environmental concerns (Kwikwetlem First Nation)	Community concern about housekeeping, blackberry bushes near Colony Farm	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans and resource-specific mitigation tables.	Y	Site-wide litter clean up was conducted. Blackberry bushes identified along fence line of right-of-way in Colony Farm were cut down, dried out, removed. Himalayan blackberries were collected and disposed of offsite in appropriate bins.
	Environmental concerns (City of Burnaby)	Notice procedure to support inventory of approved tree removal	Trans Mountain will follow-up on community concerns related to construction environmental issues and notifications.	Y	Trans Mountain worked with City of Burnaby to determine an enhanced process for advance notice to City of Burnaby about approved tree removal.
	Sensory Disturbance (Local business, resident)	Construction noise	Trans Mountain will follow up on noise complaints to confirm their relation to Project activity. Trans Mountain is working to ensure compliance with noise-related bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical.	N	N/A
Worker Conduct (Local business)	Inappropriate worker conduct (urination)	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. Complaints regarding worker conduct in community are investigated internally to determine appropriate disciplinary action.	N	N/A	
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>				
	<i>Threshold for Action: 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.</i>				
	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 Indigenous 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 January 1, 2023 - March 25, 2023.
- 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. While calculations comparing indicator 1 to the estimated workforce in the original WAS are no longer possible due the longer construction timeline, Trans Mountain continues to respond like the threshold for action has been triggered and share forward workforce estimates.
- 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 (1005) is approximately 42% of the average workers on site per day (2371).