

Trans Mountain Expansion Project

Socio-Economic Monitoring Report - Lower Mainland Region

September to December 2017 (Issue 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 National Energy Board (NEB) pursuant to NEB 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 \(NEB Condition 13\)](#)

(the above links to the NEB website where the approved SEEMP is filed)

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Project-Specific Indicators

Quantitative Indicators

SEEMP Indicator No.	Indicator	Monthly Total				Quarterly Count	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Sep-17	Oct-17	Nov-17	Dec-17			
N/A	Total calendar days of construction work during the reporting cycle	1	24	24	24	73		N/A
	Workers on site per day (average)	9	57	97	108	86		
1	Number of worker-days in field (categorized in two ways: by geographic origin, and also by Aboriginal v. non-Aboriginal status) Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy NEB Condition 59							
	Total Worker-days	9	1370	2335	2599	6313	Y	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	8	1059	1812	1952	4831		
	b) Worker-days, Other (workers not Local or Regional residents)	1	312	524	648	1485		
	c) Aboriginal	0	64	261	347	672		
	d) Non-Aboriginal	9	1307	2075	2253	5644		
2	Number of worker-days in field (categorized by accommodation arrangements of the workers) 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	9	1370	2335	2599	6313	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	8	1059	1812	1952	4831		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	1	312	524	648	1485		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	0	0	0	0	0		
3	Living out allowance or related stipend 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	0	462	727	892	2081	N	N/A
	b) Total value (\$)	\$ -	\$ 56,064	\$ 89,519	\$ 109,775	\$ 255,358		
5	Number of worker-days, in field - anticipated in next business quarter Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Aboriginal groups in community readiness.							
	a) January 2018	N/A				2944	N/A	N/A
	b) February 2018					3243		
	c) March 2018					5807		

SEEMP Indicator No.	Indicator	Monthly Total				Quarterly Count	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Sep-17	Oct-17	Nov-17	Dec-17			
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 <i>Threshold for Action: No minimum threshold. All incidents/accidents will be investigated.</i>							
	Total	0	0	0	0	0	N/A	N/A
	a) Number involving injuries	0	0	0	0	0		
	b) Number involving fatalities	0	0	0	0	0		
7	Workers transported from staging areas per day (average) <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	n/a	25	40	59	41	Y (see Note 1)	Trans Mountain has followed up with the Contractor, who has confirmed that craft workers are currently being shuttled to and from the Westridge site via water taxi or bus service. There are also no personal vehicles permitted at Westridge Marine Terminal.
	End-month count	4	35	55	55	37		
	Average	4	30	48	57	35		
8	Personal vehicles in staging area per day (average) <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	n/a	20	35	54	36	N	N/A
	End-month count	4	30	50	50	34		
	Average	4	25	43	52	31		
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) <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	0	0	0	0	0	N	N/A
	i. urgent	0	0	0	0	0		
	ii. non-urgent	0	0	0	0	0		
	iii. occupational	0	0	0	0	0		
	iv. non-occupational	0	0	0	0	0		
	b) Total number of times a worker required ambulance or other emergency transport	0	0	0	0	0		
10	Number of medical visits to Project on-site medical facilities <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	0	0	0	0	0	N	N/A
	a) occupational	0	0	0	0	0		
	b) non-occupational	0	0	0	0	0		
14	Number of people affected by a notifiable disease in a work camp <i>Threshold for Action: No minimum threshold; all notifiable diseases will be reported to the local health authority</i>							
	Total	0	0	0	0	0	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) <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) <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	N/A	N/A
	Oct-17	Total: 0	Sensory Disturbance (Visual)		
		% Aboriginal: 0			
		% Non Aboriginal: 0			
	Nov-17	Total: 0			
		% Aboriginal: 0			
		% Non Aboriginal: 0			
	Dec-17	Total: 1			
		% Aboriginal: 0			
		% Non Aboriginal: 100			
12	Qualitative feedback themes about community concerns and experienced social effects <i>Threshold for Action: Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.</i>				
	Feedback Theme	Trans Mountain Response	N	N/A	
	Noise coming from the vicinity of Westridge Marine Terminal (raised by one individual).	Trans Mountain will follow-up with any received complaints about noise to confirm its relation to construction activities. Trans Mountain continues to ensure all noise by-laws are being followed.			
13	Qualitative feedback themes about effects on the quality and abundance of traditional harvesting resources, or ability of Aboriginal people to harvest resources, within the Project footprint <i>Threshold for Action: Qualitative from Aboriginal group leader/administrator regarding reports of adverse effects on quality and abundance of traditional harvesting resources, or ability of Aboriginal people to harvest their resources or access cultural sites, within the Project footprint.</i>				
	None			N	N/A

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.
- Data for this quarter includes one day in September 2017.
- The monthly data cut-off is typically the last Saturday of each month; this reporting cycle ended December 30 2017.
- 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) NEB 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.
- For the threshold analysis of Indicator 8, the average number of personal vehicles in staging areas per day (31) is less than 0.1% of the known AADT value (74,378).
- Indicator 11 tallies feedback line calls/queries related to socio-economic impact topics in areas of current construction and related to construction activity. Socio-economic topics include: access limitations; road closures; business impacts; pressure on housing/accommodations; 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 NEB Conditions.
- Totals may not add up due to rounding.

Notes

1. For the threshold analysis for Indicator 7, the average workers transported from staging areas per day (35) is approximately 41% of the average workers on site per day (86).